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**REPORT ON**

# SOUTHERN ONTARIO HYDROCARBON RESOURCE EVALUATION

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## Abstract

The assessment of Middle Ordovician recoverable oil and gas reserves in southwestern Ontario involved geological delineation and statistical evaluation, using the truncated discovery process model, of the established mature play. Results of the assessment suggest that total Middle Ordovician recoverable gas and oil resources is in the order of 7,960 $106m^3$ (281 bcf) and 6,313,671 $m^3$ (39.7 MMbbls) respectively. Eighty-five per cent of this gas volume 6,799 $106m^3$ (240 bcf) and 43 per cent of this oil volume 2,733,296 $m^3$ (17.2 MMbbls) remains to be discovered. This indicates that the play still has a significant upside potential with respect to undiscovered oil and gas volumes, particularly in that area between the current area of exploration and development activity and the eastern most point of the Niagara Escarpment.


## 1.0 INTRODUCTION

The role of the Southern Ontario Hydrocarbon Project is to create a modern synthesis of fully accessible digital forms of data fundamental to oil and gas exploration, resulting in consistent stratigraphic correlation and an updated assessment of energy potential. The last full assessment of Ontario's hydrocarbon resources was completed in the early 1980's: since that time over 3000 petroleum wells have been completed and new targets identified. Understanding the stratigraphic framework of the Paleozoic succession is essential for promoting the continued development of these resources. In addition, underground storage of gas in depleted reservoirs is critical to Ontario's economy each year. Digitized, easily-manipulated and publicly-accessible data in GIS-based formats will initiate new evaluation of various targets areas and stratigraphic horizons, leading to renewed exploration and major economic impact.

The project objectives and priorities are:

- Promote renewed exploration, enhanced exploration strategies and major economic impact through investment in resource development.
- Compile and map new pools, production data, pressure data, reserve estimates, geological and engineering data, and all hydrocarbon plays.
- Use these data to compile and publish an updated assessment of remaining undiscovered oil and gas resources and an updated oil and gas pools and pipelines map. Update and standardize the terminology used to describe and correlate the subsurface Paleozoic strata of southern Ontario.
- Complete a set of scanned and digitized well logs as a series of published stratigraphic reference cross-sections, and include key outcrop and core measured sections and drill cuttings to produce detailed descriptions of important productive strata. Publish an updated "Guide to subsurface Paleozoic stratigraphy of southern Ontario".
- Update Oil and Gas Pools and Pipelines Map of Ontario.

- Update a Guide to the subsurface Paleozoic stratigraphy of southern Ontario.

The objectives and focus of the project are to contribute to an updated evaluation of Ontario's resources of oil and natural gas. The last update was completed by the Ontario Geological Survey in the early 1980's. The project focuses on oil and gas pools discovered from 1982 until the end of 2001 with a focus on oil and gas in Ordovician strata. This includes interpretation and mapping of pool boundaries for major pools, calculation on in-place and recoverable reserves, tabulation of reservoir characteristics, and estimation of potential hydrocarbon resources on the Ordovician strata of southern Ontario.

A primary objective of the Southern Ontario Hydrocarbon Resource Evaluation and Regional Stratigraphic Synthesis project is to compile and publish an updated assessment of the discovered and undiscovered recoverable oil and gas reserves hosted in Ordovician Trenton-Black River carbonate rocks of southern Ontario. Previous published assessments were completed by Hutt et al (1973) and Bailey Geological Services Ltd. and Cochrane (1984) prior to the discovery of the prolific Dover 7-5-V East and Hillman fields in 1983. Osadetz et al (1996) prepared preliminary assessments using early results of post 1983 drilling activity based on updated recoverable reserve data prepared by Trevail (1995). The substantial increase in recoverable oil and gas reserves discovered in the intervening time period and a desire to encourage exploration for additional new reserves in relatively untested areas of the province provided the impetus to undertake this new assessment.

The project partners for the study are:

- Geological Survey of Canada
- Ontario Ministry of Natural Resources
- Ontario Geological Survey
- Ontario Oil, Gas and Salt Library

This Project contributes to the Earth Sciences Sectors Consolidating Canada's Geoscience Knowledge Program and is part of the Targeted Geoscience Initiative. The terms of reference for the study were developed by Terry Carter of the Petroleum Resources Centre, Ministry of Natural Resources. The scope of work to address the terms of reference was provided in Golder Associates proposal dated December 2003.

The key members of the project team are: Golder Associates Ltd., Mr. Bob Trevail, and Energy Objectives Ltd. (Mr. Phil Walsh, Mr. Joe Gorman, Mr. Ed Welychka). Golder Associates acted as the project manager for this study. Energy Objective was responsible for calculation of reserves and pool characterization. Mr. Bob Trevail was responsible for estimation of remaining resources and preparation of the main text of this study. The study was carried out under the direction of Mr. Terry Carter.

The format of this report closely follows that of Reinson et al (1993) with the addition of a narrative describing the discovery history of the known pools and fields. The assessment process was comprised of two parts:

- A geological review of the reservoirs utilizing pool/field structure and boundary delineation maps as well as recoverable reserve estimates and reservoir parameters prepared in an earlier phase of the project; and
- A statistical analysis of recoverable reserve estimates using the Truncated Discovery Process Model (TDPM) Excel spreadsheet program currently used to by the Canadian Gas Potential Committee (CGPC) to assess undiscovered hydrocarbon potential.

The following supporting information is provided in Appendices:

- Appendix A Continuous Summary Statistics for Resource Assessment
- Appendix B Reserve Report (Energy Objective Ltd.)
- Appendix C Pool Summaries for Reserve Report (Joe Gorman, Energy Objective Ltd.)
- Appendix D Pool Maps and Geological Cross-sections

## 2.0 GEOLOGICAL FRAMEWORK

### 2.1 Tectonic Framework

Middle Ordovician carbonates occupy an area of 133 x $10^3$ $km^2$ and encompass much of southwestern Ontario as well as adjacent eastern portions of the St. Lawrence Platform (also known as the Ottawa Lowlands). The main area of interest in this study is located west of the Frontenac Arch because the carbonates of the Ottawa Lowlands are not particularly prospective due to faulting and lack of hydrocarbon shows (Bailey and Cochrane, 1984).

Southwestern Ontario lies along the axis of the periodically reactivated southwest trending Algonquin and Findlay arch complex between the Michigan and Appalachian basins. The present day location of these structural components is shown in Figure 2. Relative movement between the arches and basins had a controlling influence on the depositional patterns of the various carbonates, shales, evaporites, and sandstones that make up the approximately 1500 metres of Cambrian to Mississippian rocks present in the subsurface today (Sanford et al, 1985). The Paleozoic section is underlain by Precambrian rocks belonging to the Grenville Province and crops out against the western side of the northwest trending Frontenac Arch (Carter and Easton, 1990).

Sanford et al (1985) suggested that that reactivation of a pre-existing Precambrian fracture framework (Figure 3) played a major role in the formation of many of the hydrocarbon reservoirs,

Cambrian through Devonian in age, found in southwestern Ontario. Vertical movement on these faults affected the areal distribution of sedimentary facies and opened conduits through which diagenetic fluids were able to flow, an aspect that is especially important in the formation of Trenton-Black River dolomitized reservoirs.

## 2.2 Regional Stratigraphy

The conventional subsurface stratigraphic nomenclature used by industry is illustrated in Figure 4 along with a geophysical log showing the corresponding typical gamma ray and neutron log curves. The strata are subdivided into two main assemblages, the Black River Group and Trenton Group in ascending order respectively. The Middle Ordovician transgression in southern Ontario represents an overall deepening upward depositional sequence from supratidal and tidal flat carbonates, through lagoonal and shoal carbonates into offshore and finally deep shelf carbonates (Kobluk and Brookfield, 1982) deposited on a gentle ramp that lay northwest of the Taconic foreland basin. The sequence is unconformably underlain by subcropping rocks of Upper Cambrian and Precambrian age.

### 2.2.1 Black River Group

The Black River Group ranges in thickness from 10 metres near the outcrop belt to over 150 metres in southwestern Lake Erie (Figure 5). It is comprised in order of oldest to youngest of the Shadow Lake, Gull River, and Coboconk Formations.

The onset of the Middle to Upper Ordovician marine transgression is represented by the relatively thin siliciclastic rocks of the Shadow Lake Formation. Because the source of the sediments varied locally and deposition occurred on an irregular unconformity surface there is no uniformity of lithology or thickness on a regional basis (Sanford, 1961). Generally, the rocks are fine to coarse grained and poor to well sorted sandstones of varying green and brown colours. A distinctive feature in many areas is the presence of frosted and pitted coarse grains of quartz.

The Gull River Formation, generally the thickest unit of the Black River Group, conformably overlies the Shadow Lake and represents the onset of shallow water carbonate deposition. Main lithologies include lime mudstone, bioclastic-intraclastic wackestone, and minor amounts of bioclastic packstone-grainstone. Oolitic beds sometimes occur near the base of the formation. The Gull River was deposited in low-energy supratidal, tidal flat, and lagoonal environments.

The Coboconk consists of light brown peloidal-pelletal lime mudstone containing calcispheres, rare gastropods, and scattered coral, crinoid, brachiopod, and bryozoan fragments. Chert nodules are often present 5 to 6 metres below the contact with the overlying Kirkfield Formation. The rock is slightly burrowed and exhibits minor bedding.

### 2.2.2 Trenton Group

The Trenton Group ranges up to over 170 metres thick in central southwestern Ontario (Figure 6) and is comprised of the Kirkfield, Sherman Fall, and Cobourg Formations in ascending order. The onset of deposition of Trenton rocks is characterized by an initial influx of terrigenous material and abrupt deepening of water on the carbonate ramp possibly the result of platform downwarping due to emplacement of overthrust loads on the cratonic margin to the southeast during the Taconic orogeny (Beaumont et al, 1988).

Over much of the study area the Kirkfield and Sherman Fall Formations represent two upward shallowing sequences that exhibit similar lithologies, a lower unit of argillaceous nodular wackestone composed of lime mud, pellets and minor skeletal fragments overlain by a cleaner unit of skeletal packstone/grainstone beds (see gamma ray curve in Figure 4) composed of crinoids, bryozoans, gastropods, trilobites and brachiopod fragments interbedded with lime mud wackestone. Deposition occurred in relatively deeper water on the lower shoreface to outer platform. The packstone/grainstone units were deposited following storm events as water depth decreased.

The Cobourg Formation conformably overlies the Sherman Fall and consists of slightly argillaceous light to medium brown pelletal lime mudstone to skeletal wackestone interbedded with lenses of light to medium brown skeletal packstone. The wackestone is contains a fauna of brachiopods, crinoids, trilobites, gastropods, bryozoans, and pelycepods. The somewhat nodular appearance is attributed to in-situ differential submarine cementation of the sediment modified by bioturbation that disrupted the original bedding. The top 5 to 8 metres of Cobourg in the current exploration area of southwestern Ontario typically consists of ferroan dolomite and is referred to as the “cap dolomite” (see Figure 7 for distribution). Origin of the ferroan dolomite is unknown but may be related to dewatering of the overlying Blue Mountain shales (Taylor and Sibley, 1986).

In the Bruce Peninsula area a unit of organic-rich interbedded shale and limestone named the Collingwood Member, not shown on the stratigraphic column, comprises the upper part of the Cobourg (Russell and Telford, 1983). The contact between the Trenton Group and the shale of the overlying Blue Mountain is gradual where the Collingwood Member is present and sharp where absent (see Figure 7).

## 2.3 Trap Style

At the present time, the primary exploration and development area for Ontario’s Trenton-Black River Group oil and gas reservoirs is in Essex and the western part of Kent counties (Figure 8). These pools are members of the diagenetic trap family of oil and gas reservoirs in which the trap boundaries are due to postdepositional diagenetic processes which can create new reservoirs or

new seals and are largely independent of the original depositional environment (Vincelette et al, 1999).

Best known as hydrothermal dolomite reservoirs or simply HTD, they are recognized to occur in western Canada, Saudi Arabia, Australia, northeastern United States and southern Ontario. HTD reservoirs are closely associated with faults, in particular strike-slip faults, with localized movement of hot (thermal) mineralized water (hydro) fluids through limestone bedrock deep in the subsurface. This "hydro-thermal" fluid has altered the limestone and locally replaced it with dolomite. The process of dolomitization has also created porosity in the bedrock which has subsequently trapped oil and natural gas. This porosity is vertically confined beneath thick non-porous shales of the Blue Mountain Formation and laterally confined by non-porous limestone, forming a reservoir or pool. Figure 9 is a conceptual 3-D block model showing the typical spatial distribution of dolomitized reservoir rock. Fractures within the dolomite play a major role in enhancing production. Where several pools occur on the same dolomitized fault structure it is referred to as a field. In Ontario, oil and gas pools of this type are long narrow features 400 to 1200 meters in width and up to several kilometers length.

These reservoirs are seismically characterized, as shown in Figure 10, by:

- Development of a seismically-recognizable depressions above the hydrothermal dolomite zone;
- Diffraction patterns occurring at the anomaly boundaries delineating the transition from reservoir dolomite and porosity to regional non-porous limestone;
- Isochron thickening between the Rochester and Trenton seismic markers; and
- Precambrian marker appears as a low or disappearing altogether due to misstacking of events, both characteristics due to increased travel times through the reservoir relative to regional rock.

Preferred drilling sites are often located in these depressions. There is a heterogeneous distribution of dolomite and porosity within these fault trends and within the boundaries of individual oil and gas pools. This is a well-known feature of this reservoir type and accepted practice is to map pool boundaries to the known edges of the dolomitized zone unless it has been proven to be unproductive by drilling.

## 3.0 HISTORY OF THE PLAY

This section was prepared by Mike Dorland, Ontario Oil, Gas & Salt Resources Library, under the direction of Terry Carter, Subsurface Geologist, Petroleum Resources Centre, Ministry of Natural Resources.

## 3.1 Discovery History of Trenton-Black River Pools in Ontario

The application of seismic techniques after 1980 initiated a new round of Trenton-Black River exploration in Ontario that resulted in new oil pool discoveries starting in 1983. It is convenient to divide the discovery history of Trenton-Black River pools in Ontario into two exploration phases, historical and modern. The Historical Exploration Phase discusses all discoveries prior to 1983 and the Modern Exploration Phase from 1983 to present.

### 3.1.1 Historical Exploration Phase (pre 1983)

Williams (1937) speculated, based on earlier accounts, that Jesuit missionaries who traveled to Manitoulin Island in 1649 probably knew of the presence of oil springs near the eastern end of the island. The first documented indication of hydrocarbons in the Trenton-Black River in Ontario occurred on Manitoulin Island in 1860. Oil shows were reported from at least two localities on Manitoulin Island but no commercial production was established. The first commercial discovery in the Trenton-Black River in Ontario occurred in 1900 near the village of Hepworth in Bruce County (Sanford, 1960).

Hepworth Pool

The first production of natural gas from the Ordovician Trenton-Black River in Ontario occurred in the year 1900 (Sanford, 1960). It came from a well completed by Grey and Bruce Oil and Gas Company Ltd. in the township of Amabel, near the village of Hepworth, Bruce County. The initial open flow of the discovery well is unknown but Clapp (1915) reported production from 428.2 m depth with a rock pressure of 2,930 kPa. Subsequent wells drilled in the area reported initial open flows up to 2.7 $10^3m^3/d$ (80 Mcf/d) (Sharp, 1963). Drill cuttings are not available for any wells completed in the Hepworth Pool but from drillers records and examination of more recent wells drilled nearby it can be reasonably assumed that much of the production came from either the Coboconk Formation or the upper part of the Gull River Formation. (Sanford, 1960). Natural gas from the Hepworth Pool was used locally for many years but cumulative production for the pool is unknown (Sanford, 1960).

Dover Pool

In 1917, by sheer wildcatting, the Dover Pool was discovered by the Union Gas Company of Canada Ltd (Lauriston, 1961). On May 12th, the Union Gas-Dover No.1 well encountered gas at 945 m depth in the Black River Group with an initial flow of 5.7 $10^3m^3/d$ (200 Mcf/d). With a further 15 m of drilling flow increased to 57 $10^3m^3/d$ (2 MMcf/d). The well reached total depth at 966 m with an open flow of between 142 and 156 $10^3m^3/d$ (5 and 5.5 MMcf/d) and 8,450 kPa (1,225 psi) pressure. The well was in production soon after discovery and by late November of

1917 the well was turning into an oil well, with between 10 and 13 $m^3/d$ (60 and 80 bbls/d) and around 57 $10^3m^3/d$ (2 MMcf/d) of gas production (Lauriston, 1961).

Williams (1918, 1919, and 1920) is believed to be one of the first people to recognize the presence of a low or syncline on the Trenton surface at Dover, an observation that was to become one of the defining characteristics of these reservoirs.

According to Caley (1945), by 1919 eight wells were producing significant quantities of oil and gas from the pool but subsequent drilling around the pool, as defined at that time, resulted in many dry wells. It was not until 1935 that the Dover Pool was delineated as a narrow, linear, east-west trending reservoir and in that year 10 productive and 2 dry holes were drilled (Sanford, 1960). From 1938 to 1940 five more producers were drilled. At least 10 wells had initial open flows between 85 $10^3m^3/d$ (3 MMcf/d) and 198 $10^3m^3/d$ (7 MMcf/d) and 25 other wells were from 1.5 to 57 $10^3m^3/d$ (50 to 2000 Mcf/d). Initial flows of oil were from 0.6 to 15.9 $m^3/d$ (4 to 100 bbls/d) and one well came in with 32 $m^3/d$ (200 bbls/d).

Since 1940, 4 wells have been completed in the pool bringing the total number of completions to over 40 wells. Currently 5 wells are active in the pool, 4 gas producers and 1 oil producer. To the end of 2003, the Dover Pool had produced 43,900 $m^3$ (276,000 bbls) of oil and 386 $10^6m^3$ (13.6 Bcf) of gas.

Minor Pools

Following the discovery of the Dover Pool and prior to 1983, 18 Trenton-Black River pools were discovered sporadically throughout Ontario. Of these pools, 6 are still on production; Colchester, Malden, Gosfield South and Malden 3-41-IV pools produce oil; Arthur and Aldborough 7-18-IV pools produce gas. Small quantities of gas were produced from Acton, Dover 7-10-VI, Hornby and Picton pools and the gas wells at Egremont were plugged with no record of production. A small amount of oil was produced from Aldborough 4-A-VIII, Dover 1-11-V E, Gosfield North 5-13-IX, Malden 25, Manitoulin, Ruscom River and Stevenson pools.

### 3.1.2 Modern Exploration Phase (1983-Present)

The application of seismic techniques after 1980 initiated a new round of Trenton-Black River exploration in Ontario. In 1983, new discoveries of oil were made at the Dover 7-5-V E Pool in Dover Township of Kent County and the Hillman Pool in Mersea Township of Essex County. These prolific discoveries resulted in a renewed interest in exploring for Trenton-Black River reservoirs. The majority of wells drilled for Trenton-Black River targets over the past 20 years have been concentrated in Essex and Kent Counties, drilling seismic features similar to the 1983 discoveries. Trenton-Black River pools currently account for 74% of Ontario's annual oil production of approximately 188,000 $m^3$ (1.2 MMbbls) and an increasing proportion of the

natural gas, with cumulative production of over 3.2 $10^6m^3$ (20.3 MMbbls) of oil and 1.0 $10^9m^3$ (35.3 Bcf) of natural gas to the end of 2003.

The Trenton-Black River play in Ontario is an extension of the giant Lima-Indiana trend to the south, with trapping relationships analogous to the Albion-Scipio oil field in Michigan.

DOVER FIELD

The Dover Field includes 4 pools, Dover, Dover 7-5-V E, Dover 7-10-VI E and Dover 1-11-V E. All pools are located in Dover Township with a portion of the Dover Pool extending into Raleigh Township. Both townships are located in Kent County. The Dover, Dover 1-11-V E and Dover 7-10-VI E pools were discovered prior to 1983 and are not discussed below. The Dover pool was described above.

Dover 7-5-V E Pool

The Dover 7-5-V E Pool was discovered by E.P. Rowe Ltd. and partner Ram Petroleums Ltd. in February, 1983, with the Rowe/Ram #1 Dover 7-5-V E well. The discovery well is located approximately 1.5 km north of the Dover oil and gas pool and reported an initial oil flow of $49m^3/d$ (308 bbls/d).

Development drilling of the Dover 7-5-V E pool continued through to mid 1992 with the completion of 23 wells. Currently, 16 wells are active in the pool, 8 gas producers and 8 oil and gas producers. The pool had cumulative production of 197,000 $m^3$ (1.24 MMbbls) of oil and 235 $10^6m^3$(8.3 Bcf) of gas to the end of 2003.

Since discovery, the Dover 7-5-V E pool has been operated by 5 different companies: E.P. Rowe Oil Limited from discovery to the end of 1986, Paragon Petroleum Corporation from 1987 through 1997, CanEnerco Ltd. from 1998 to April, 2001, Columbia Natural Resources Canada Ltd. from May, 2001 to October, 2002 and Veteran Resources Inc. from November, 2002 to present.

HILLMAN FIELD

The Hillman Field includes 6 pools, Hillman, Mersea 4-240-STR, Mersea 1-16-I, Mersea 4-14-I, Mersea 5-20-A and Mersea 2-12-I. All pools are located in Mersea Township of Essex County.

Hillman Pool

The Consumers' Gas Company Ltd. with partners Pembina Resources Ltd. and Ontario Energy Corporation drilled the Consumers et al 33683 Mersea 1-15-B exploratory well to discover the

Hillman Pool in November, 1983. Initial daily production rates as high as 48m³/d (300 bbls/d) were reported for the discovery well.

By the end of 1985, Consumers Gas Company Ltd. had defined the majority of the Hillman trend with the completion of 13 oil wells. Eleven additional oil wells were drilled in the pool to the end of 1988 resulting in a total of 24 completions. Four horizontal wells have been drilled in the Hillman pool. Pembina Resources Ltd. drilled the first horizontal in 1995 and the last three wells completed in the pool were horizontal wells drilled by Talisman Energy Inc. in 1998. Currently, 12 oil wells and 2 service wells are active in the pool. The pool had cumulative production of 319,300 m³ (2 MMbbls) of oil and 13.5 $10^6$m³ (0.5 Bcf) of gas to the end of 2003.

Since discovery the Hillman pool, with the exception of two wells completed by Pinnacle Developments Inc. in 1986, has been operated by 4 companies, The Consumers Gas Company Ltd. from discovery to the end of 1991, Telesis Oil and Gas Ltd. from 1992 to the end of 1993, Pembina Resources Ltd. from 1994 to the end of 1997 and Talisman Energy Inc. from 1998 to present.

Mersea 4-240-STR

Telesis Oil & Gas Ltd. drilled the Telesis et al 34612 Mersea 4-240-STR exploratory well to total depth in June, 1993. The well was completed as an oil producer in the new pool discovery Mersea 4-240-STR. Subsequent development of the pool has resulted in a total of 5 oil well completions within the pool, including 4 horizontal wells. Pembina Resources Ltd. completed the first two horizontal wells in 1995. Talisman Energy Inc. drilled a lateral from the Pembina et al 2 (Horiz. #1) Mersea 6-243-NTR horizontal well in 1999 and another horizontal well in 2002, the last well completed in the pool.

Since discovery the Mersea 4-240-STR Pool has been operated by 3 companies, Telesis Oil and Gas Ltd. from discovery to the end of 1993, Pembina Resources Ltd. from 1994 to the end of 1997 and Talisman Energy Inc. from 1998 to present. Currently all 5 oil wells completed in the pool are active. Cumulative production from the Mersea 4-240-STR Pool to the end of 2003 is 96,000 m³ (608,000 bbls) of oil and 11.7 $10^6$m³ (0.4 Bcf) of gas.

Mersea 1-16-I

Talisman Energy Inc. drilled the Talisman (Horiz. #1) Mersea 1-16-I exploratory well to total depth in July, 1998. The well was completed as an oil producer in the new pool discovery Mersea 1-16-I. Subsequent development of the pool has resulted in 2 additional oil producers, both of them horizontally drilled. The last well was completed in the pool in 2001. Currently all 3 oil wells completed in the pool are active. Cumulative production from the Mersea 1-16-I Pool to the end of 2003 is 12,400 m³ (78,000 bbls) of oil and 1.7 $10^6$m³ (60 MMcf) of gas.

Mersea 4-14-I

Telesis Oil & Gas Ltd. drilled the Telesis et al 34587 Mersea 4-14-I exploratory well to total depth in July, 1990. The well was completed as an oil producer in the new pool discovery Mersea 4-14-I and was produced until early 1998. No development wells were drilled in the pool and the discovery well was plugged in 2001. The pool produced 12,300 $m^3$ (77,000 bbls) of oil.

Mersea 5-20-A

Talisman Energy Inc. drilled the Talisman No.2 (Horiz. #1) Mersea 5-20-A exploratory well to total depth in June, 2000. The well was completed as an oil producer in the new pool discovery Mersea 5-20-A. Since discovery, one development well, in the form of a lateral leg extending from the horizontal leg of the discovery well, has been drilled in the pool. Talisman No.2 (Horiz. #1, Lat. #1) Mersea 5-20-A reached total depth in March, 2001. Cumulative production from the Mersea 5-20-A Pool to the end of 2003 is 8,200 $m^3$ (51,500 bbls) of oil and 0.6 $10^6 m^3$ (21 MMcf) of gas.

Mersea 2-12-I

Talisman Energy Inc. drilled the Talisman (Horiz. #1) Mersea 2-12-I exploratory well to total depth in February, 2001. The well was completed as an oil producer in the new pool discovery Mersea 2-12-I and produced a small amount of oil before production was suspended in 2002.

GOLDSMITH-LAKESHORE FIELD

The Goldsmith-Lakeshore Field includes 2 pools, Goldsmith-Lakeshore and Mersea 5-10-IX. The Goldsmith-Lakeshore Pool is located in Mersea and Romney townships of Essex and Kent counties with a portion of the pool extending offshore from Romney Township into Lake Erie. The Mersea 5-10-IX Pool is located in Mersea Township immediately northwest of the Goldsmith-Lakeshore Pool.

Goldsmith-Lakeshore Pool

In Ontario, the largest Trenton-Black River oil pool is the Goldsmith-Lakeshore Pool. Since its discovery in 1985, the field has produced a total of 894,600 $m^3$ (5.6 MMbbls) of oil and 91.6 $10^6 m^3$ (3.2 Bcf) of gas. Currently, 41 oil wells, and 1 service well are active in the pool producing approximately 80 $m^3/d$ (500 bbls/d) of oil and 17 $10^3 m^3$ (600 Mcf/d) of gas. A total of 57 wells have been completed in the pool, including 39 vertical wells and 18 horizontal wells. Ten of the horizontal wells were drilled from surface locations near the Lake Erie shoreline to develop an extension of the pool beneath Lake Erie.

Following the discovery of the Hillman Pool in Mersea Township in November 1983, exploration efforts were concentrated on drilling similar-looking seismic features identified elsewhere in the Mersea-Romney area. Exploratory drilling led to the discovery of 2 seemingly isolated oil pools, Mersea 6-23-VII and Romney 3-8-II but development drilling has shown that these pools are all part of one trend known as the Goldsmith-Lakeshore Pool.

In November, 1985, Consumers' Gas Co. Ltd. with partners Pembina Resources Ltd. and the Ontario Energy Corporation drilled the Consumers et al 34012 Mersea 6-23-VII discovery well. The well was completed as an oil producer and produced at an initial rate of 7.6 $m^3/d$ (48 bbls/d) (Coulter and Waugh, 2002). Two months later the Consumers et al 34011 Romney 3-8-II exploratory well, located 2 km from the Mersea 6-23-VII discovery well, was completed as an oil producer in the new pool discovery Romney 3-8-II. Production from the Romney 3-8-II discovery well stabilized at approximately 15.9 $m^3/d$ (100 bbls/d) (Coulter and Waugh, 2002).

In 1987 and 1988 exploratory drilling continued westward from the Mersea 6-23-VII new pool discovery defining 4.5 km of productive trend known as the Goldsmith Pool. In December 1987, the Consumers et al 34340 Romney 7-10-II exploratory well, located 1.5 km east of the Romney 3-8-II Pool, was completed as an oil producer in the new pool discovery Romney 7-10-II. The Romney 3-8-II and Romney 7-10-II were considered to be part of one trend known as the Lakeshore Pool.

Development drilling continued through to 1990 increasing the total number of wells completed along the trend to 20. By 1990, an extensive grid of 2-D seismic data had been acquired over the general area of the Goldsmith and Lakeshore pools and from 1990 to the end of 1993 infill drilling was spread over the entire length of the trend as defined at that time. This was a busy period for drilling with 19 wells drilled, including the first horizontal re-entry of an existing vertical well in Ontario.

The Ram Talisman #2 Horizontal #1 Mersea 8-16-VIII well was the first horizontal well drilled in Ontario and was an important milestone in the history of the Ontario oil and gas industry. This well was drilled in 1993 as a horizontal re-entry of the Ram/BP 2, Mersea 8-16-VIII vertical well which had been completed in 1988. The well reached a total measured depth of 989 m.

From 1994 to the end of 1997 only 7 wells were drilled in the immediate area of the Goldsmith-Lakeshore Pool, including one horizontal well. In fact, 1994 marked the first year since the discovery of the pool that no wells were drilled in the pool area. This was primarily due to the acquisition of Telesis Oil and Gas by Pembina Resources Ltd. and the resulting consolidation of the interests of the two companies in the Mersea-Romney area during the year (Coulter and Waugh, 2002).

By 1997, development drilling had delineated the Goldsmith-Lakeshore Pool within Mersea and Romney townships extending the pool to the Lake Erie shoreline. In 1997, Talisman Energy Inc. acquired Pembina Resources Ltd. interests in the pool and since 1998 development activity was concentrated on extending the Lakeshore portion of the pool offshore beneath the waters of Lake Erie. Since oil wells cannot be drilled from the surface of Lake Erie the only way to access the reservoir offshore was with horizontal wells drilled from onshore.

In December 1998, Talisman Energy Inc. drilled the first horizontal well beneath Lake Erie from a surface location near the Lake Erie shoreline. Talisman (Horiz. #1) Romney 5-9-I reached a total measured depth of 2,182 m. Since 1998, 9 additional horizontal wells, 8 drilled by Talisman Energy Inc. and one drilled by Forbes Resources Inc., have been drilled to develop the offshore portion of the Lakeshore Pool with the horizontal reach of wells increasing gradually as the trend extended further from the shoreline. Total measured depths for horizontal wells in the offshore area of the pool reached a maximum of 3,903 m.

Since discovery the majority of the Goldsmith-Lakeshore Pool has been operated by 4 companies, The Consumers Gas Company Ltd. from discovery to the end of 1991, Telesis Oil and Gas Ltd. from 1992 to the end of 1993, Pembina Resources Ltd. from 1994 to the end of 1997 and Talisman Energy Inc. from 1998 to present. Four other companies have completed wells in the Goldsmith-Lakeshore Pool: Ram Petroleums Ltd. completed 6 wells beginning in 1987 and operated them until Pembina Resources Ltd. took over operations in 1996; Farmer's Oil & Gas Inc. has completed 6 wells beginning in 1988; Forbes Resources Inc. completed 4 wells beginning in 1990, including one horizontal well completed in 2000, that are currently operated by Clearwood Resources Inc.; CanEnerco Limited completed one well in 1998 that is currently operated by Veteran Resources Inc.

Mersea 5-10-IX Pool

Forbes Resources Inc. drilled the Judo 8 Mersea 5-10-IX exploratory well to total depth in August, 1991. The well was completed as an oil well in the new pool Mersea 5-10-IX and produced a small amount of oil before being plugged in 1998.

RENWICK-FARGO FIELD

The Renwick-Fargo Field includes 5 pools, Renwick-Fargo, Lake Erie 233-L, Lake Erie 233-S, Mersea 6-20-XI, Mersea 8-23-IX and Lake Erie Romney 194-TRS. The Renwick-Fargo Pool is located in Romney Township of Kent County with a portion of the pool extending into Mersea Township of Essex County. Mersea 6-20-XI and Mersea 8-23-IX pools are located in Mersea Township. Lake Erie 233-L and Lake Erie Romney 194-TRS pools are located offshore from Romney Township in Lake Erie.

Renwick-Fargo Pool

Exploratory drilling led to the discovery of what were initially interpreted as three separate pools, Romney 6-13-III (Renwick South), Romney 6-13-IV (Renwick North) and Romney 5-15-I (Fargo) but development drilling has shown that these pools are all part of two intersecting dolomitized fault trends referred to here as the Renwick-Fargo Pool.

The Consumers' Gas Company Ltd. drilled the Consumers et al 34281 Romney 6-13-III exploratory well to total depth in July, 1987. The well was completed as an oil producer in the new pool discovery Romney 6-13-III, commonly referred to as the Renwick South Pool. This was a significant pool discovery but also significant because it stimulated interest in exploration in Romney Township. Until this time Trenton-Black River exploration was concentrated in Mersea Township and to a lesser extent Dover Township.

In May, 1988, the Consumers et al 34347 Romney 6-13-IV exploratory well reached total depth and was completed as an oil producer in the new pool discovery Romney 6-13-IV. The Romney 6-13-IV pool is located immediately north of the Romney 6-13-III pool and is commonly referred to as the Renwick North pool. Later in 1988, the Consumers et al 34427 Romney 5-15-I reached total depth in November and was completed as an oil producer in the new pool discovery Romney 5-15-I, otherwise known as Fargo.

Development drilling of the Romney 6-13-III (Renwick South), Romney 6-13-IV (Renwick North) and Romney 5-15-I (Fargo) discoveries has resulted in 32 completions within the pool, 12 of them horizontal wells. Pembina Resources Ltd. drilled three horizontal wells beginning in 1994 and all wells completed since Talisman Energy Inc has operated the pool have been horizontals, the last one completed in 2002.

Since discovery the Renwick pool, with the exception of two wells, has been operated by 4 companies, The Consumers Gas Company Ltd. from discovery to the end of 1991, Telesis Oil and Gas Ltd. from 1992 to the end of 1993, Pembina Resources Ltd. from 1994 to the end of 1997 and Talisman Energy Inc. from 1998 to present. Zorin Exploration Ltd. and Farmer' Oil & Gas Inc. each operate one well in the pool. Currently, 24 oil wells and 1 service well are active in the pool. The pool had cumulative production of 508,500 $m^3$ (3.2 MMbbls) of oil and 41 $10^6 m^3$ (1.5 Bcf) of gas to the end of 2003.

Lake Erie 233-L Pool

Talisman Energy Inc. drilled the Talisman No.2 (Horiz. #1) Romney 5-203-I exploratory well beneath Lake Erie to 3298 m total measured depth in April, 2001. The well was completed as an oil producer in the new pool discovery Lake Erie 233-L. Since discovery, two development wells have been drilled in the pool. Talisman No.2 (Horiz. #1, Lat. #1) Romney 5-203-I reached

3445 m total measured depth in April, 2001 and consists of a lateral horizontal leg extending from the horizontal leg of the discovery well. TLM No.2 (Horiz. #1) Romney 8-194-TRS reached 5,000 m total measured depth in January, 2003 and is the longest horizontal well drilled in Ontario. The surface location for TLM No.2 (Horiz. #1) Romney 8-194-TRS is approximately 4 km from the discovery well, the other surface location producing oil from the Lake Erie 233-L Pool. Currently all 3 oil wells completed in the pool are active. Cumulative production from the Lake Erie 233-L Pool to the end of 2003 is 59,150 $m^3$ (372,000 bbls) of oil and 7.2 $10^6 m^3$ (254 MMcf) of gas.

Lake Erie 233-S Pool

Talisman Energy Inc. drilled the Talisman (Horiz. #1, Lat. #1, Lat. #1) Romney 5-203-I exploratory well beneath Lake Erie to 4,082 m total measured depth in February, 2002. The well was completed as an oil producer in the new pool discovery Lake Erie 233-S. The well consists of a lateral horizontal leg extending from the abandoned and whipstocked lateral leg of the Talisman (Horiz. #1, Lat. #1) Romney 5-203-I well. The original horizontal, Talisman (Horiz. #1) Romney 5-203-I, produced a small amount of oil from the Renwick-Fargo Pool and the first lateral produced a small amount of oil from the Goldsmith-Lakeshore Pool. Cumulative production from the Lake Erie 233-L pool, to the end of 2003 is 6,600 $m^3$ (41,500 bbls) of oil and 1.0 $10^6 m^3$ (36 MMcf) of gas.

Mersea 6-20-XI

Telesis Oil & Gas Ltd. drilled the Telesis et al 34614 Mersea 6-20-XI exploratory well to total depth in July, 1991. The well was completed as an oil producer in the new pool discovery Mersea 6-20-XI. One horizontal development well was drilled by Talisman Energy Inc. in July, 2002 and the two well pool has produced 2250 $m^3$ (14,150 bbls) to the end of 2003.

Mersea 8-23-IX

Talisman Energy Inc. drilled the Talisman (Horiz. #1) Mersea 8-23-IX exploratory well to total depth in May, 1998. The well was completed as an oil producer in the new pool discovery Mersea 8-23-IX and produced a small amount of oil before production was suspended in 2002.

Lake Erie Romney 194-TRS

Talisman Energy Inc. drilled the TLM No.1 (Horiz. #1) Romney 8-194-TRS exploratory well beneath Lake Erie to 2214 m total measured depth in September, 2001. The well was completed as an oil producer in the new discovery pool Lake Erie Romney 194-TRS and produced a small amount of oil in 2001 before production was suspended.

WIGLE-OLINDA FIELD

The Wigle-Olinda Field includes two pools, Wigle-Olinda and Gosfield South 2-24-V. The Wigle-Olinda Pool is located in Mersea, Gosfield North and Gosfield South townships of Essex County. The Gosfield South 2-24-V Pool straddles Mersea and Gosfield South townships.

Wigle-Olinda Pool

Exploratory drilling led to the discovery of what were initially interpreted as three separate pools, Gosfield North 2-21-VI (Olinda), Mersea 3-6-V (Wigle) and Mersea 3-4-IV but development drilling has shown that these pools are all part of two intersecting dolomitized fault trends referred to here as the Wigle-Olinda Pool.

The Consumers' Gas Company Ltd. drilled the Telesis 34539 Gosfield North 2-21-VI exploratory well to total depth in January, 1990. The well was completed as an oil producer in the new pool discovery Gosfield North 2-21-VI, also known as the Olinda Pool. Exploratory drilling continued west and east of the discovery well in 1990 and 1991 further extending the Olinda trend.

In July, 1992, Telesis Oil and Gas Ltd. drilled the Telesis et al Mersea 3-6-V exploratory well to total depth. The well, located approximately 6 km southeast of the Olinda Pool discovery well, was completed as an oil producer in the new pool discovery Mersea 3-6-V, also known as the Wigle Pool. One month later, in November, the Telesis et al 34630 Mersea 3-4-IV exploratory well reached total depth and was completed as an oil producer in the new pool discovery Mersea 3-4-IV. Subsequent development drilling determined that the Mersea 3-4-IV Pool belongs to the Olinda trend.

Development drilling of the Olinda, Wigle and Mersea 3-4-IV discoveries has resulted in 58 completions within the pool, 30 of them horizontal wells. Pembina Resources Ltd. drilled the first horizontal well in the pool in 1996 and all 26 wells completed since Talisman Energy Inc has operated the pool have been horizontals, the last one completed in August, 2003. Currently, 54 oil wells are active in the pool. To the end of 2003 the pool had cumulative production of 438,000 $m^3$ (2.8 MMbbls) of oil and 48.1 $10^6 m^3$ (1.7 Bcf) of gas to the end of 2003.

Since discovery the Wigle-Olinda Pool, with the exception of four wells, has been operated by 4 companies, The Consumers Gas Company Ltd. from discovery to the end of 1991, Telesis Oil and Gas Ltd. from 1992 to the end of 1993, Pembina Resources Ltd. from 1994 to the end of 1997 and Talisman Energy Inc. from 1998 to present. Rowe Energy Corporation completed 2 wells in 1995 and 1996, one now operated by Talisman Energy Inc., and Clearbeach Resources Inc. and Clearwood Resources Inc. each completed one well in the pool in 1996.

Gosfield South 2-24-V Pool

Clearwood Resources Inc. drilled the Gosfield South 2-24-V exploratory well to total depth in July, 1997 and was completed as an oil producer in the new pool discovery Gosfield South 2-24-V. One development well was drilled in the pool in 1998 and the two wells have produced 5,250 $m^3$ (33,000 bbls) of oil to the end of 2003.

ROCHESTER FIELD

The Rochester Field includes 6 pools, Rochester 1-17-II, Rochester 7-17-IV, Rochester 4-8-I, Rochester 8-8-I, Rochester 1-20-V and Ruscom River. All pools are located in Rochester Township of Essex County. The Rochester 1-20-V and Ruscom River pools were discovered prior to 1983 and are not discussed below.

The Rochester 1-17-II EBR Pool was discovered in 1992 by Paragon Petroleum Corporation (PPC). Successful exploratory drilling by PPC in the vicinity of the pool resulted in the discovery of three additional pools. Rochester 7-17-IV EBR, Rochester 8-8-I EBR and Rochester 4-8-I EBR pools were discovered in 1994.

Since discovery, Rochester 1-17-II, Rochester 4-8-I, Rochester 7-17-IV and Rochester 8-8-I pools have been operated by 3 different companies: PPC from discovery to the end of 1999, Northrock Resources Inc. in 2000 and Talisman Energy Inc. from 2001 to present.

Rochester 1-17-II EBR Pool

Paragon Petroleum Corporation (PPC) drilled the PPC et al No.1 Rochester 1-17-II EBR exploratory well to total depth in July, 1992. The well was completed as an oil and gas producer in the new pool discovery Rochester 1-17-II EBR. The discovery well received a considerable amount of media coverage after PPC issued a press release reporting initial production of oil in excess of 80$m^3$/d (500 bbls/d) of oil per day.

By the end of 1993, five development wells had been completed in the Rochester 1-17-II pool, including the second horizontal well drilled in Ontario. PPC Lakewood Horizontal #1 Rochester 6-17-II EBR reached a total measured depth of 1,450 m in October, 1993. Since 1993, two more horizontal wells and one deviated well have been drilled in the pool. The last well drilled in the pool was a horizontal well drilled by Talisman Energy Inc. in 2002. Currently all wells completed in the pool are active, 9 oil and gas wells and 1 oil well. Cumulative production from the Rochester 1-17-II EBR Pool to the end of 2003 is 246,200 $m^3$ (1.55 MMbbls) of oil and 43.2 $10^6 m^3$ (15.2 Bcf) of gas.

Rochester 7-17-IV EBR Pool

Paragon Petroleum Corporation (PPC) drilled the PPC Rochester #15 Rochester 7-17-IV EBR exploratory well to total depth in April, 1994. The well, located 2 km east of the Rochester 1-17-II EBR discovery well, was completed as an oil producer in the new pool discovery Rochester 7-17-IV EBR. Subsequent development from discovery to 1996 and in 2002 has resulted in 11 completions within the pool, including 5 horizontal wells. PPC completed the first two horizontal wells in 1994 and 1995. In 2002, Talisman Energy Inc completed 2 horizontal wells and 1 horizontal lateral well. Currently all wells completed in the pool are active, 9 oil wells and 2 oil and gas wells. The Rochester 7-17-IV EBR Pool had cumulative production of 98,000 $m^3$ (617,000 bbls) of oil and 13.3 $10^6 m^3$ (470 MMcf) of gas to the end of 2003.

Rochester 4-8-I EBR Pool

Paragon Petroleum Corporation drilled the Paragon et al #14 Rochester 4-8-I EBR exploratory well, immediately east of the Rochester 8-8-I EBR new pool discovery, to total depth in September, 1994. The well was completed as an oil producer in the new pool discovery Rochester 4-8-I EBR. To the end of 2003, the Rochester 4-8-I EBR Pool had cumulative production of 13,500 $m^3$ (85,000 bbls) of oil and 3.4 $10^6 m^3$ (119 MMcf) of gas.

Rochester 8-8-I EBR Pool

Paragon Petroleum Corporation drilled the PPC Rochester #12 Rochester 8-8-I EBR exploratory well to total depth in July, 1994. The well was completed as an oil and gas producer in the new pool discovery Rochester 8-8-I EBR. Subsequent development drilling resulted in an unsuccessful horizontal well drilled in 1993, re-completed for brine disposal in 1995 and in 2002, Talisman Energy Inc completed a horizontal well which was the last well completed in the pool. Currently, 1 oil well and 1 oil and gas well are active in the pool. To the end of 2003, the Rochester 8-8-I EBR Pool had cumulative production of 9,800 $m^3$ (62,000 bbls) of oil and 1.5 $10^6 m^3$ (53 MMcf) of gas.

INNERKIP FIELD

The Innerkip Field includes 3 pools, Blenheim 8-13-X, Blandford 7-1-XIII and Blenheim 3-10-VI. Blenheim 8-13-X and Blenheim 3-10-VI pools are located in Blenheim Township and Blandford 7-1-XIII is located in Blandford Township. Both Blandford and Blenheim townships are located in Oxford County. All pools occur along the northeastern boundary of the Cambro-Ordovician Innerkip Pool and are currently operated by Shiningbank Energy Ltd.

Blenheim 8-13-X Pool

Cambright Gas Corporation drilled the Cambright #71 Blenheim 8-13-X exploratory well to total depth in December, 1997. The well targeted an extension of the Innerkip Pool but instead encountered gas in the overlying Ordovician Gull River Formation with initial flows up to 4.6 $10^3m^3/d$ (160 Mcf/d). The well was completed in the Gull River Formation as a gas producer in the new pool discovery Blenheim 8-13-X. Since discovery two development wells, one vertical and one horizontal, have been completed in the pool. Cambright #79 (Horiz. #1) Blenheim 1-11-IX reached 1237 m total measured depth in November, 1999. The last well drilled in the pool was a vertical well completed by Shiningbank Energy Ltd. in 2001. Currently, all 3 gas wells completed in the pool are active. To the end of 2003, the Blenheim 8-13-X Pool had cumulative production of 20 $10^6m^3$ (0.7 Bcf) of gas.

Blandford 7-1-XIII

Denbridge Gas Corporation drilled the DGC Blandford 7-1-XIII exploratory well to total depth in July, 1994. The well recorded an undetermined initial flow of gas from the Gull River Formation with a shut-in pressure of 2340 kPa as well as gas in the Cambrian. The well was completed in the Cambrian, on the northeastern edge of the Innerkip Pool.

In May, 1999, Cambright Gas Corporation flow tested the Gull River Formation in the DGC Blandford 7-1-XIII well where the show was reported and recorded open flow of gas up to 8.1 $10^3m^3/d$ (286,000 Mcf/d). The well was re-completed in the Gull River Formation in the new pool discovery Blandford 7-1-XIII. The well started production from both the Cambrian and Gull River Formation in August, 1999. One development well was drilled by Cambright Gas Corporation in July, 1999 and the two well pool has produced 4 $10^6m^3$ (141 MMcf) of gas to the end of 2003.

Blenheim 3-10-VI

Cambright Gas Corporation drilled the Cambright #80 Blenheim 3-10-VI exploratory well to total depth in December, 1997. The well targeted the Cambrian but was completed in the Gull River Formation as a gas producer in the new pool discovery Blenheim 8-13-X. In 1999, two horizontals wells were drilled towards the Blenheim 3-10-VI Pool from an existing vertical well located south of the pool but both wells were unsuccessful. To the end of 2003 the discovery well had cumulative production of 700 $10^3m^3$ (25 MMcf) of gas.

### 3.1.3 Miscellaneous Trenton-Black River Pools in Ontario (1983-Present)

Colchester South 5-15-V Pool

Ram Petroleums Ltd. drilled the Ram/BP 10 (Deviated 1) Colchester South 5-15-V exploratory well to total depth in November, 1989 and was completed as an oil producer in the new pool discovery Colchester South 5-15-V. This was the first directionally drilled exploratory well in Ontario. It was kicked off from Ram/BP 10 Colchester South 5-15-V, a vertical well reported as a dry hole in July, 1989. Cumulative production from the Colchester South 5-15-V pool to the end of 2003 is 5,500 $m^3$ (34,600 bbls) of oil.

Gosfield South 4-258-STR Pool

Ram Petroleums Ltd. drilled the Ram/BP Telesis 19 Deviated 1 Gosfield South 4-258 STR exploratory well to total depth in May, 1991 and was completed as an oil producer in the new pool discovery Gosfield South 4-258-STR. The well was directionally drilled from Ram/BP Telesis 19 Gosfield South 4-258 STR, a vertical well that reported a show of gas in January, 1991. Cumulative production from the Gosfield South 4-258-STR pool to the end of 2003 is 4,150 $m^3$ (26,100 bbls) of oil.

Gosfield 3-K-III Pool

In April 1997, Clearwood Resources Inc. drilled the Clearwood Gosfield South 3-K-III exploratory well to total depth. The well was completed as an oil producer in the new pool discovery Gosfield South 3-K-III. No development wells were drilled in the pool and the discovery well has produced 2,750 $m^3$ (17,200 bbls) of oil to the end of 2003.

One other well has produced a small amount of oil from the pool. The Consumers Gas Company Ltd. drilled the Cons/Paladin 34312 Gosfield South 1-1-III exploratory well to total depth in 1987 and the well was plugged in 1989. In 1996, Petrolia Exploration Ltd. entered the Cons/Paladin 34312 Gosfield South 1-1-III well and re-completed it as an oil producer. The well produced a small amount of oil before production was suspended.

Gosfield South 4-4-III

Rowe Energy Corporation drilled the REC #3 Gosfield South 4-4-III exploratory well to total depth in May, 1995 and was completed as an oil producer in the new discovery pool Gosfield South 4-4-III. One discovery well was drilled in 1997 and produced a small amount of oil before being suspended in 2001. The discovery well is still on production and to the end of 2003 has produced 6,000 $m^3$ (38,000 bbls) of oil and a small amount of gas.

Gosfield South 4-G-II

Talisman Energy Inc. drilled the TLM No.1 (Horiz. #1) Gosfield South 4-G-II exploratory horizontal well to total depth in March, 2003. The well was completed as an oil producer in the new pool discovery Gosfield South 4-G-II and produced 1325 $m^3$ (8,350 bbls) of oil and 220 $10^3m^3$ (7.8 MMcf) of gas in 2003. In March, 2004 the well was deepened to 1,642m total measured depth.

Sombra 3-26-VI Pool

Ram Petroleums Ltd. drilled the Ram 84 Sombra 3-26-VI exploratory well to total depth in November, 1985 and was completed as a gas producer in the new pool discovery Sombra 3-26-VI. No development wells were drilled in the pool and the discovery well has produced 12 $10^6m^3$ (424 MMcf) of gas to the end of 2003. The well is currently operated by Torque Energy Inc.

Sombra 7-6-VI Pool

Torgary Resources Inc. drilled the Torgary et al No. 2 Sombra 7-6-VI exploratory well to total depth in July, 1991. The well was completed as a gas producer in the new pool discovery Sombra 7-6-VI and started production in 1993, operated by Kinderhook Resources Inc. No development wells were drilled in the pool and the discovery well has produced 4.8 $10^6m^3$ (168 MMcf) of gas to the end of 2003.

Tilbury North 1-11-IV Pool

Ram Petroleums Ltd. drilled the Ram/Talisman 29 Deviated 1 Tilbury North 1-11-IV exploratory directional well to total depth in August, 1993 and was completed as an oil and gas producer in the new pool discovery Tilbury North 1-11-IV. One unsuccessful development directional well was drilled west of the discovery well by CanEnerco Ltd. in 1998. To the end of 2003 the discovery well had cumulative production of 4,000 $m^3$ (25,200 bbls) of oil and 5.7 $10^6m^3$ (202 MMcf) of gas.

Tilbury West 3-2-X Pool

Talisman Energy Inc. drilled the TLM No.1 (Horiz. #1) Tilbury West 3-2-X exploratory well to total depth in October, 2001 and was completed as an oil producer in the new pool discovery Tilbury West 3-2-X. To the end of 2003 the discovery well had cumulative production of 450 $m^3$ (2,850 bbls) of oil.

### 3.1.4 Other Pools

Anderdon 8-2-IV, Colchester South 8-5-III, Gosfield South 5-10-V, Gosfield South 8-7-V, Maidstone 7-17-V, Tilbury East 1-24-IX and Tilbury West 2-4-IX pools produced small amounts of oil before production was suspended.

## 3.2 Regional History of the Trenton-Black River Play

### 3.2.1 Ohio and Indiana

Eastern Mid-continent Middle Ordovician carbonates of the Trenton and Black River Groups have been prolific oil and gas producers for more than a century. Commercial production of gas from the Middle Ordovician Trenton Group began in 1884 in northwestern Ohio near the city of Findlay in Hancock County. The drilling of the discovery well was encouraged by surface seepages of gas in the area (Wickstrom, 1996). This discovery initiated a major drilling boom in northwestern Ohio that spread into eastern Indiana and resulted in the giant Lima-Indiana trend (Wickstrom, Gray and Stieglitz, 1992). This boom resulted in the drilling of an estimated 100,000 wells (Buehner, 1971) and production in excess of 485 million barrels of oil and 1 Tcf of gas from the Trenton-Black River (Keith and Wickstrom, 1992). According to Keith (1986), about half of the production from the trend is produced from linear, highly dolomitized reservoirs around the Bowling Green fault zone.

### 3.2.2 Michigan

Trenton-Black River reservoirs have produced more than 146 million barrels of oil and 275 Bcf of gas from fractured dolomite reservoirs on the southern flank of the Michigan Basin (Wylie et al., 2004). The majority of this production has come from the Albion, Scipio, Stoney Point, Hanover, Northville and Deerfield fields (Wylie et al, 2004).

The first commercial Trenton-Black River production in Michigan came in 1936 with the Deerfield Field discovery in Monroe County, located in Michigan's extension of the Ohio Bowling Green fault zone (Hurley and Budros, 1990). By 1959, 40 wells had been drilled on 1.4 km2 (Hurley and Budros, 1990) and to the end of 2003 cumulative production is approximately 750,000 barrels of oil (Wylie et al, 2004).

The next significant Trenton-Black River discovery in Michigan was the Northville Field, discovered in 1954 and developed in Washtenaw, Oakland and Wayne Counties (Hurley and Budros, 1990). Production is obtained from fractured and dolomitized limestones associated with a well-documented fault (Landes, 1970). To the end of 2003, cumulative production is approximately 1.2 million bbl oil and 14 Bcf gas (Wylie et al, 2004). The discovery of Northville

is probably most important because it stimulated interest in Trenton-Black River exploration and ultimately led to the discovery of the Albion Scipio trend (Hurley and Budros, 1990).

The Albion-Scipio trend is located in Calhoun, Jackson, and Hillsdale counties, Michigan. The Scipio field discovery well was drilled in Hillsdale county in 1955 and in 1958 the Albion Field discovery well was drilled about 12 miles northwest of Scipio in Calhoun county (Beghini and Conroy, 1966). Further drilling led to the discovery of a number of seemingly isolated fields but field development has shown that the trend is divided into two main reservoirs, Albion and Scipio fields. The Albion-Scipio trend is about 56 km long and generally less than 1.6 km wide. To the end of 2003, the Albion-Scipio trend has produced approximately 132 million barrels and 230 Bcf of gas (Wylie et al, 2004) from over 700 wells, thus qualifying it as Michigan's only giant field (Prouty, 1989).

Since the discovery of Albion-Scipio there have been only two significant Trenton-Black River discoveries in Michigan, the Hanover and Stoney Point fields (Wylie et al, 2004). The Hanover Field, discovered in 1959, is located in Jackson County 5 km north-northeast of the Stoney Point Field. To the end of 2003, cumulative production is approximately 1.4 million barrels of oil and 600,000 Mcf of gas (Wylie et al, 2004).

The Stoney Point Field located in Jackson and Hillsdale Counties, 8 km east and parallel to the Albion-Scipio Trend, was discovered in 1983. The Stoney Point Field was the first major discovery in the 25 year period since discovery of the Albion Field. To the end of 2003, the Stoney Point Field has produced approximately 11 million barrels of oil and 25,000,000 Mcf of gas (Wylie et al, 2004).

### 3.2.3 New York

In New York State several gas fields discovered in the late 1800s to early 1900s have been reported to produce from the Trenton-Black River (Drazan, 1989). State records indicate that New York Trenton Black-River exploration started following the discovery of gas and oil in 1884 and 1885 near Findlay and Lima, Ohio (Hartnagel, 1938). Although the majority of the old fields are poorly documented, early production records indicate that the Pulaski Field, located in Oswego County, produced between one and two Bcf of gas up until 1946, at which time the field was abandoned (Drazan, 1989). All of the early Trenton Black-River fields were developed near the eastern shore of Lake Ontario. Four of these fields are located in Oswego County and the remainder in counties adjacent to Oswego County.

Fortuna Energy Inc., a wholly owned subsidiary of Talisman Energy Inc., dominates the present Trenton-Black River play in New York State after establishing a significant position in the play by acquiring the assets of Pennsylvania General Energy Corp., Fairman Drilling Company, FDC Venture 15, LP, East Resources, Inc. and ABARTA Oil & Gas Co., Inc. Fortuna's continued

success is based on knowledge and expertise gained from the Ontario Trenton-Black River play (Eaton, 2004).

# 4.0 RESOURCE ASSESSMENT PROCEDURE

## 4.1 Numerical Analysis

Oil and gas resource assessment is an important undertaking for both government and industry. For example, both the Geological Survey of Canada (GSC) and the United States Geological Survey (USGS) conduct periodic assessments in order to gain an understanding of the amount of undiscovered resources that may be added to known established oil and gas reserves. This is especially important during times of high commodity prices and uncertain supply. As part of the exploration process industry often conducts individual basin assessments to gain an understanding of potential oil and gas resources and use the results to plan effective and economically successful drilling programs.

The selection of an appropriate resource assessment methodology plays a major role in determining the validity of the results one obtains from the evaluation process. Miller (1986) discussed five resource assessment methodologies ranging from methods using areal and volumetric yield combined with geologic analogy to more sophisticated combination methods using geologic and statistical models. Application of a particular appraisal method is dependent on the amount and quality of technical information available such as production data, drilling history, and reservoir parameters.

More recently, Meneley (2003) reviewed the current status and future direction of assessment procedures as presented at the "Symposium on Resource Assessment Methodologies" hosted by the Canadian Gas Potential Committee held April 2002 in Calgary, Alberta. Selection of an appraisal method appropriate to the type of resource being assessed was again considered to be of utmost importance. The most common methods used to evaluate known conventional established plays are often very different from those used for non-conventional and conceptual plays. The expertise of the individual assessor also plays an important role in selecting the most appropriate estimate of potential resources. The peer-review process used by the Canadian Gas Potential Committee was cited as an example of the use of expert judgement.

A number of assessment techniques currently being used in ongoing resources assessment projects including Petrimes (GSC) and the Seventh Approximation assessment model (USGS) were considered for this project. However, because the results of this assessment of Ontario Ordovician oil and gas resources is to be incorporated into the CGPC report "Natural Gas Potential in Canada – 2005", permission was sought, and graciously given, to use the Truncated Discovery Process Model (TDPM) Excel program, developed by Ken Logan of TransCanada

Pipelines Ltd. TDPM is currently used by the CGPC to complete its updated resource assessment and combines features of the Petrimes and Arps-Roberts programs previously used by CGPC.

Logan and Meneley (2004) describe TDPM as being based on two main principles:

- that the underlying size distribution of hydrocarbon accumulations in a geologically defined exploration play is approximately lognormal; and
- that the exploration process is one of sampling without replacement where larger accumulations tend to be discovered earlier than smaller ones

Further, the TDPM analysis uses the discovered pool record of those pools that lie between an upper and lower truncation point in the discovered pool record to determine the underlying distribution of the discovered and undiscovered pools in an exploration play. It estimates pool size distributions and an associated exploration efficiency factor. It also overcomes two problems inherent in the use of PETRIMES, namely that the ultimate number of pools in a play assessed by PETRIMES cannot exceed 1000, and that PETRIMES cannot handle the problem of economic truncation (Logan, 2002).

The individual steps used in this resources assessment project were:

1) Geological play definition
2) Compilation of play data
3) Application of discovery process model
4) Pool size distribution
5) Estimate of play potential

## 4.2 Geological Play Definition

Almost all resource assessment methodologies utilize the notion of a play as basis for the evaluation process. Play type and play area must be defined before commencing the evaluation procedure (Reinson et al, 1993). A play consists of a set of known or postulated oil and gas accumulations sharing similar geologic, geographic, and temporal properties, such as source rock, migration pathway, timing, trapping mechanism, and hydrocarbon type (Klett et al, 2003).

For this project, the play type is comprised of those oil and gas reservoirs, discovered and undiscovered, hosted in Ordovician carbonates of the Trenton and Black River Groups in southern Ontario. Known reservoirs are typically fault related and consist of porous dolomites encased in non-porous regional limestone. The play area consists of that area of southern Ontario underlain by Trenton and Black River rocks bounded by the Canada-United States international border and the edge of the Black River outcrop belt (Figure 11).

## 4.3 Compilation of Play Data

Compilation of basic play data was relatively straight forward with individual well, pool, and field locations and recoverable reserve data originating from previously completed components of the Southern Ontario Hydrocarbon Resource Evaluation (geological evaluation of producing pools/fields, compilation of reservoir parameters, and calculation of recoverable reserves). Exhibit 1 summarizes of cumulative production to December 2002, recoverable oil and gas reserves, number of producing wells, and recovery factors where available. Additional data was provided by the Ontario Ministry of Natural Resources from its Ontario Petroleum Database System through the Ontario Oil, Gas & Salt Resources Library.

The Ordovician play boundary map was constructed in ArcMap using ESRI basemaps and the bedrock geology, seamless coverage of the province of Ontario compiled by the Ontario Geological Survey. The well, pool, and field locations were compared with the play boundary to ensure consistency between the two data sets.

## 4.4 Discovery Process Model

The discovery process model has proved to be a useful resource assessment methodology for plays that have an established drilling record resulting in a number of discoveries and accompanying production history that allows for calculation of recoverable reserves and/or reserves-in-place. Kaufman et al (1975) describes the discovery process as the sequence of events that leads to the discovery of a new hydrocarbon pool. For example, based on available geologic data the geologist recommends a seismic acquisition program which in turn (if a suitable anomaly is present) results in drilling an exploratory well.

Application of the discovery process model utilizes statistical analysis of both the discovery history and discovered pool size data to estimate pool size distributions (discovered and undiscovered) and subsequently estimate the undiscovered resources for a particular play. Typical characteristics of the discovery process model include:

1) Lognormal distribution of pool sizes;
2) Sampling (discovery) occurs without replacement;
3) Largest pools are generally discovered first;
4) There is an inverse relationship between number of pools and mean of pool size distribution.

Figures 12 and 13 show the recoverable gas and oil reserves by well for those wells drilled from 1983 to 2002 and Figures 14 and 15 show the recoverable gas and oil reserves by pool plotted against discovery year for the time period 1900 to 2004. Note the general decreasing trend in

recoverable reserve size with time after the major discoveries in the mid-1980's. Figures 16 and 17 show the discovered pool size date for the largest 25 gas and oil pools respectively.

### 4.5 Well And Pool Size Distributions

As mentioned previously, the discovery process model assumes discovered pool sizes fit a lognormal distribution. The Ordovician oil and gas well/pool recoverable reserve data set was tested for lognormality using a number of statistical procedures and graphical presentations. The most widely used test for normality (and in this case, lognormality when log-transformed pool size data are used) is the Shapiro and Wilk W-statistic. The W-statistic p-value expresses the probability the distribution is lognormal. The lower the p-value, the more unlikely the distribution is lognormal. Two additional parameters indicative of lognormality are skewness and kurtosis, measures of symmetry and peakiness respectively of a distribution around its mean. A skewness value of 0 indicates the distribution is symmetrical about the mean. A kurtosis value of 0 indicates the distribution is normal and no data is clustered about either the mean or in the tails.

During the course of testing it was found that improvements in lognormal fit of the pool size data was achieved by truncating the data to exclude those data points that:

1) Fell below cutoff values that would probably be uneconomic to produce either today or in the near future; and
2) Appeared to be outliers, that is large values that do not fit a lognormal distribution.

Analyse-it for Microsoft Excel, an add-in for Excel available from Analyse-It Software, Ltd. was used to complete the statistical analysis. Tables 1 and 2 list the results of the W-statistic, skewness, and kurtosis statistical analysis for reserves by well and reserves by pool respectively. Additional graphs and tables supporting these summary tables are included in Appendix A.

Graphical methods also provide visual comparison between the available data and the fitted distribution. Commonly used are cumulative distribution function (CDF) and probability density function (PDF) graphs. A plot of the cumulative distribution function shows the probability that the value of a random variable (pool size) is less than a specific value. A least squares fit of well/pool size data versus probability will plot as a straight line if the data has a lognormal distribution. A plot of a probability density function shows possible values of a random variable (well/pool size) on the horizontal axis and their respective probabilities (densities) on the vertical axis. This is useful for showing the relative probability of values and the shape of the distribution.

A specialized Excel spreadsheet developed by John H. McMullan (Craft and Hawkins Department of Petroleum Engineering, Louisiana State University) that circumvents Excel's lack

of probability as a scale option, was used to prepare CDF and PDF plots. Details of construction and use are included in documentation accompanying the spreadsheet.

CDF and PDF plots were prepared for only the truncated data sets due to improved lognormal distribution of well/pool size data as shown from previous statistical analysis. Figures 18 to 21 show the CDF and PDF plots of recoverable oil and gas reserves by well. CDF and PDF plots of recoverable oil and gas reserves by pool are shown in Figures 22 to 25. In all cases the cumulative probability function plots show a linear least squares fit to the actual well/pool size data thus providing additional support for a lognormal distribution. The probability density function plots for recoverable reserves by well show quite clearly the typical left-skewed lognormal distribution curve.

Based on statistical analysis and graphical review it is readily apparent that both the individual well and pool recoverable reserve data fit lognormal distributions and therefore can be readily used in the discovery process model analysis.

An additional outcome of the graphical review was the calculation of mean, $P_{10}$, $P_{50}$, and $P_{90}$ values of recoverable reserves which is summarized in Table 3. Note that by industry convention $P_{10}$ represents a 90% chance of occurrence and $P_{90}$ represents a 10% chance of occurrence.

### 4.6 Estimate Of Play Potential

The final step in the evaluation process was to run the Truncated Discovery Process Model (TDPM) analyses using recoverable reserves by pool for both gas and oil. The TDPM program as received is set up to use gas-in-place volumes measured in bcf. Because the available production and resource data was in SI units, $10^3m^3$ for natural gas and $m^3$ for oil, the data was converted to Imperial units, bcf and MMbbls. Each pool was then assigned a class number based on the arbitrary class size table used in TDPM wherein the starting size of each successive class is twice that of the previous class ($Log_2$). This type of classification scheme has been followed in a number of previously published resources assessments (Arps and Roberts, 1958; Schuenemeyer and Drew, 1991; Drew and Schuenemeyer, 1993; Root and Attanasi, 1993) Table 4 shows the class boundaries for Classes -20 to 20. It should be noted that only Classes 0 to 20 are used in the TDPM analysis.

Initial runs of the TDPM analysis did not yield satisfactory results using generally accepted gas and oil accumulations (see Terminology section). Acceptable results were obtained by using pool recoverable reserve estimates for gas and oil regardless of whether or not the gas was non-associated, associated, or solution. The class assignment and recoverable reserves for each of the thirty gas pools and forty-four oil pools used in the TDPM analysis are shown in Tables 5 and 6 respectively.

As previously mentioned, the TDPM analysis uses the discovered pool record of those pools that lie between an upper and lower truncation point (class size) in the discovered pool record to determine the underlying lognormal distribution of the discovered and undiscovered pools in an exploration play. Usually the largest pool defines the upper truncation limit and the class containing the most pools in the discovered pool record defines the lower truncation limit.

In the case of natural gas, Class 10 containing the Dover and Dover 7-5-V E pools is the upper truncation point and Class 6, containing 6 pools, is the lower truncation point. Based on the TDPM analysis, the estimate of total recoverable gas reserves for this play is 7,960 $106m^3$ (281 bcf), of which 85 per cent or 6,799 $106m^3$ (240 bcf) is undiscovered. Approximately 5,326 $106m^3$ (188 bcf) or 78 per cent is contained in the 159 undiscovered pools projected in Classes 5 to 9. Considering the large unexplored area this study has assumed the largest gas pool in the play is undiscovered. Using this assumption the TDPM analysis shows that there remains yet-to-be-discovered a Class 11 pool of approximately 22 bcf.

The upper and lower truncation points used in the oil analysis were Class 9 and Class 3 respectively. Class 9 contains the Goldsmith-Lakeshore pool and Class 3 contains 5 pools. The estimate of total recoverable oil reserves for the play based on TDPM analysis is 6,313,671 $m^3$ (39.7 MMbbls), of which 43 per cent or 2,733,296 $m^3$ (17.2 MMbbls) is undiscovered. Approximately 95 per cent or 2,607,392 $m^3$ (16.4 MMbbls) is contained in the 49 undiscovered pools projected in Classed 3 to 7.

Exhibits 2 and 3 summarize the input and results of the TDPM analyses for recoverable reserves of natural gas and oil respectively for the Ordovician Trenton-Black River play. Data calculated by the model and data projections based on the model are shown in blue. Results of the analysis are highlighted in light orange and include details by class of discovered/undiscovered pool count and total discovered/undiscovered recoverable reserves as well as cumulative undiscovered recoverable reserves (volume and per cent).

Table 7 summarizes the mean, $P_{10}$, $P_{90}$, and per cent of undiscovered recoverable reserves for the Trenton-Black River play. Results are presented in both SI and Imperial units for comparison.

## 5.0 DISCUSSION AND CONCLUSIONS

This report deals with assessment of the recoverable natural gas and oil reserves of the established Trenton-Black River carbonate strata in southern Ontario. The assessment was undertaken using the Truncated Discovery Process Model, which utilized the size and discovery sequence of individual pools within a natural geological population of pools.

Comparison between the results of this study with previous assessments (Hutt et al (1973), Bailey Geological Services Ltd. and Cochrane (1984), and Osadetz et al (1996)), shown in Table 8,

reveals great differences in total recoverable gas reserve estimates (Figure 26) and remarkable similarities in total recoverable oil reserve estimates (Figure 27). Osadetz et al (1996) suggests that bias toward consideration of solution gas pools may account for the low recoverable gas reserves estimate reported in their study. The similarity of oil reserve estimates is remarkable given the differences in production data available at the time of the assessment and the different methodologies utilized.

In summary, three principal conclusions can be drawn from this report:

1) Middle Ordovician Trenton-Black hydrothermal dolomite pools in southern Ontario can be prolific oil and gas reservoirs.
2) The geological analysis and statistical assessment of Trenton-Black River carbonate recoverable natural gas and oil reserves in southwestern Ontario suggests that 85 per cent or 6,799 106m³ (240 bcf) of natural gas and 43 per cent or 2,733,296 m³ (17.2 MMbbls) of oil recoverable reserves remains to be discovered.
3) The play still has a significant upside potential with respect to undiscovered recoverable gas and oil volumes, particularly in that area between the current area of exploration and development activity and the eastern most point of the Niagara Peninsula.

We trust that the report meets your requirements and if you have any questions or concerns, please do not hesitate to contact the undersigned.

Yours truly,

**GOLDER ASSOCIATES LTD.**

***Original signed by:***

Sean McFarland, P. Geo.
Principal

SMcF/kd

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## 7.0 TERMINOLOGY

The terminology used in this report is similar to that used by Reinson et al (1993), Bird et al (1994), and Klett et al (2003). The following list of selected terms and explanations provide an overview of the most common used in this report.

**Associated gas** – is natural gas that occurs in crude oil reservoirs as free gas

**Field** – a production unit consisting of a collection of oil and gas pools that when projected to the surface form an approximately contiguous area that can be circumscribed

**Gas accumulation** – an accumulation with a gas to oil ratio of 20,000 cubic feet/barrel or greater

**Gas to oil ratio (GOR)** – ratio of gas to oil (in cubic feet/per barrel) in an accumulation calculated using known gas and oil volumes at surface conditions

**Mcf** – 1,000 cubic feet of natural gas

**Nonassociated gas** – natural gas that is not in contact with crude oil in a reservoir

**Oil accumulation** – an accumulation with a gas to oil ratio of less than 20,000 cubic feet/barrel

**Play** – a set of known or postulated oil and gas accumulations sharing similar geologic, geographic, and temporal properties, such as source rock, migration pathway, timing, trapping mechanism, and hydrocarbon type

**Pool** – a discovered accumulation of oil and/or gas , typically within a single Stratigraphic interval, that is hydrodynamically separate from another oil and/or gas accumulation

**Recoverable reserves** – that proportion of the oil and/or gas in a reservoir that can be recovered using currently available techniques

**Solution gas** – natural gas that is dissolved in crude oil under reservoir conditions

**Undiscovered petroleum resources** – resources postulated from geologic information and theory to exist outside of known oil and gas accumulations

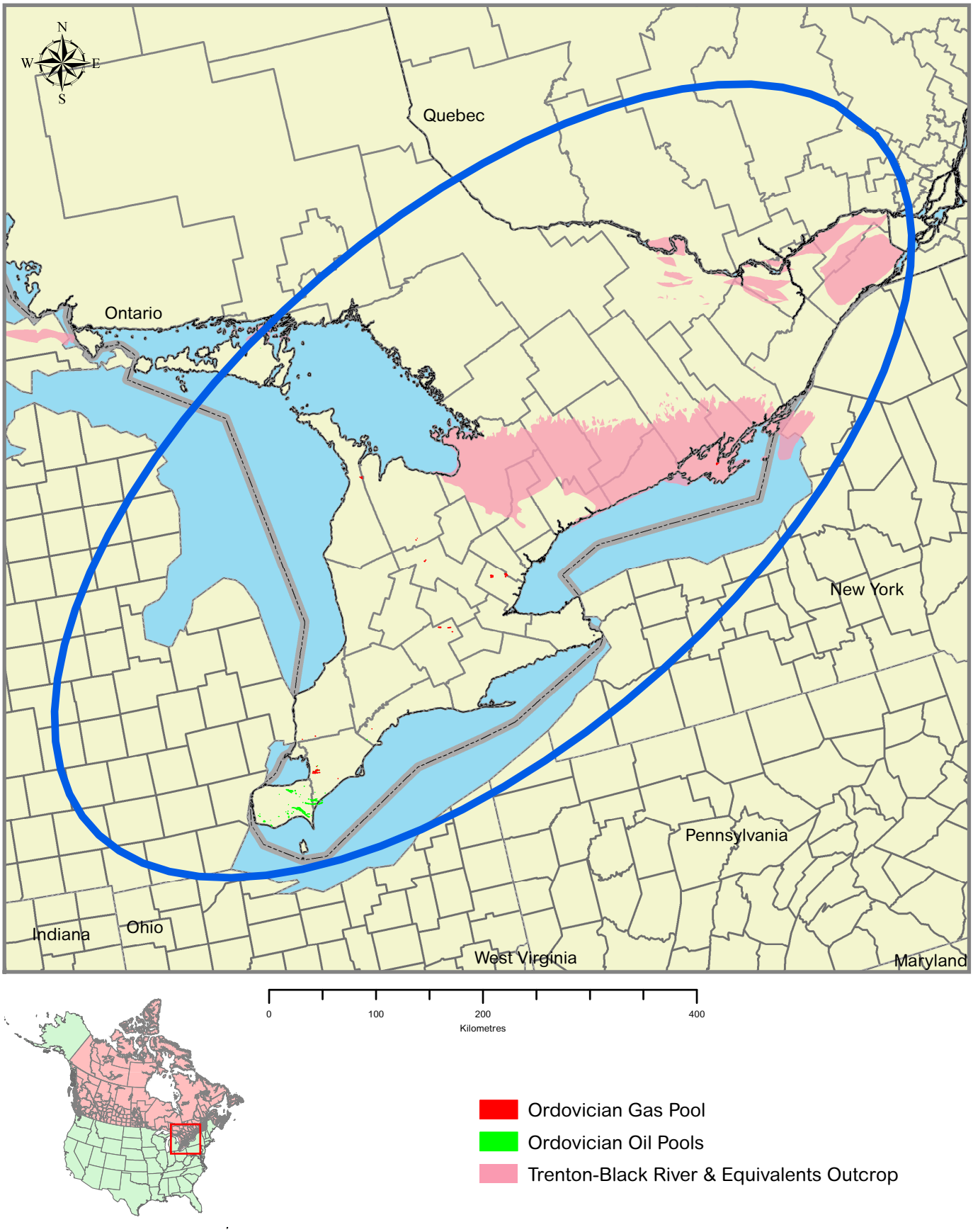



*Figure 1. Ordovician carbonate play study area outlined in blue.*

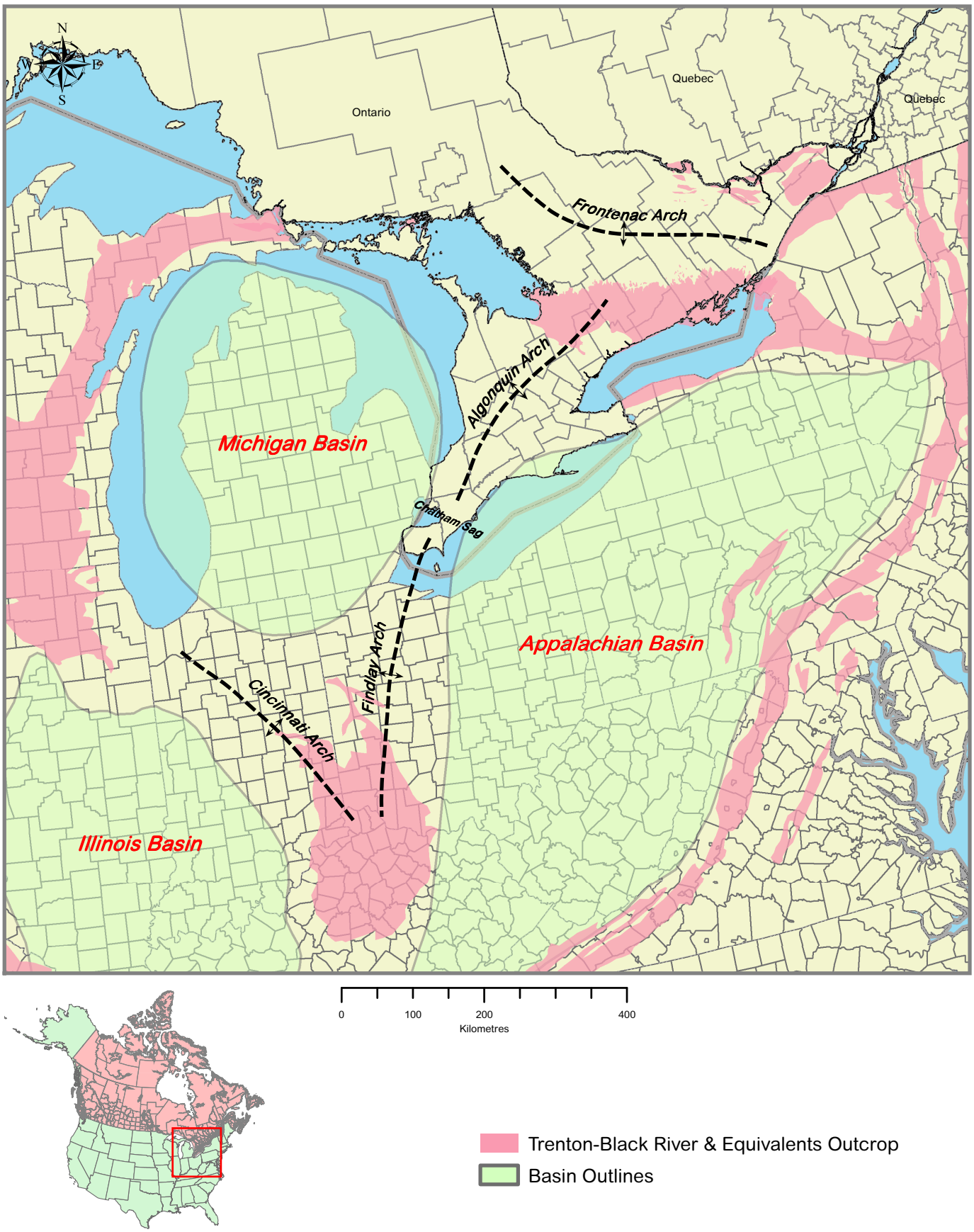



*Figure 2. Tectonic setting and outcrop location of Trenton-Black River carbonates and equivalent rocks, Ontario and surrounding area*

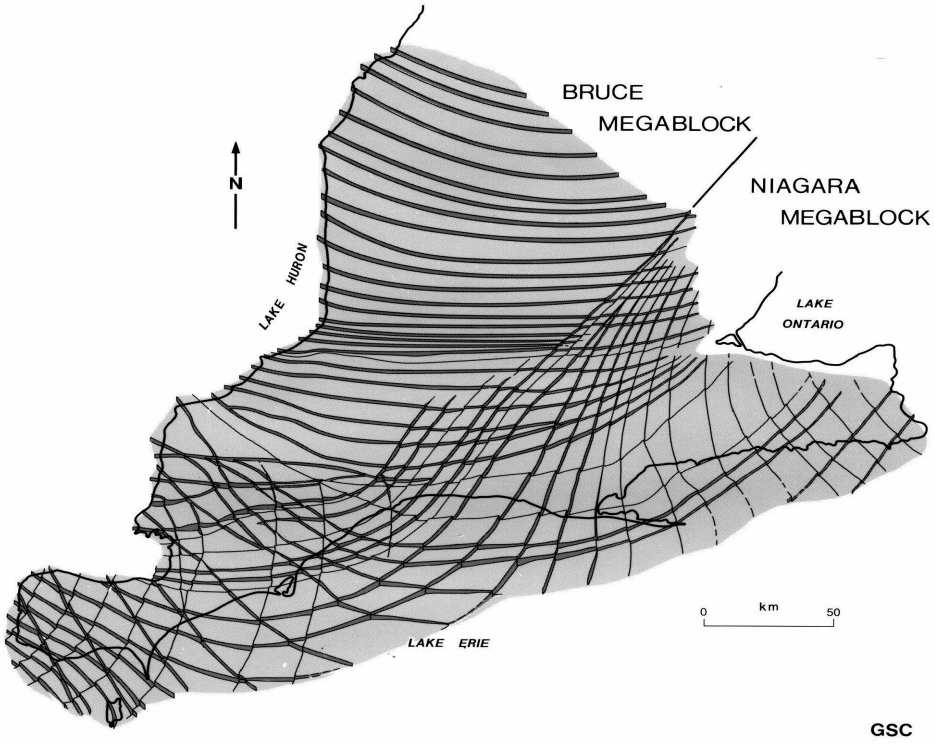



*Figure 3. Conceptual fracture framework, southwestern Ontario (from Sanford et al, 1985)*

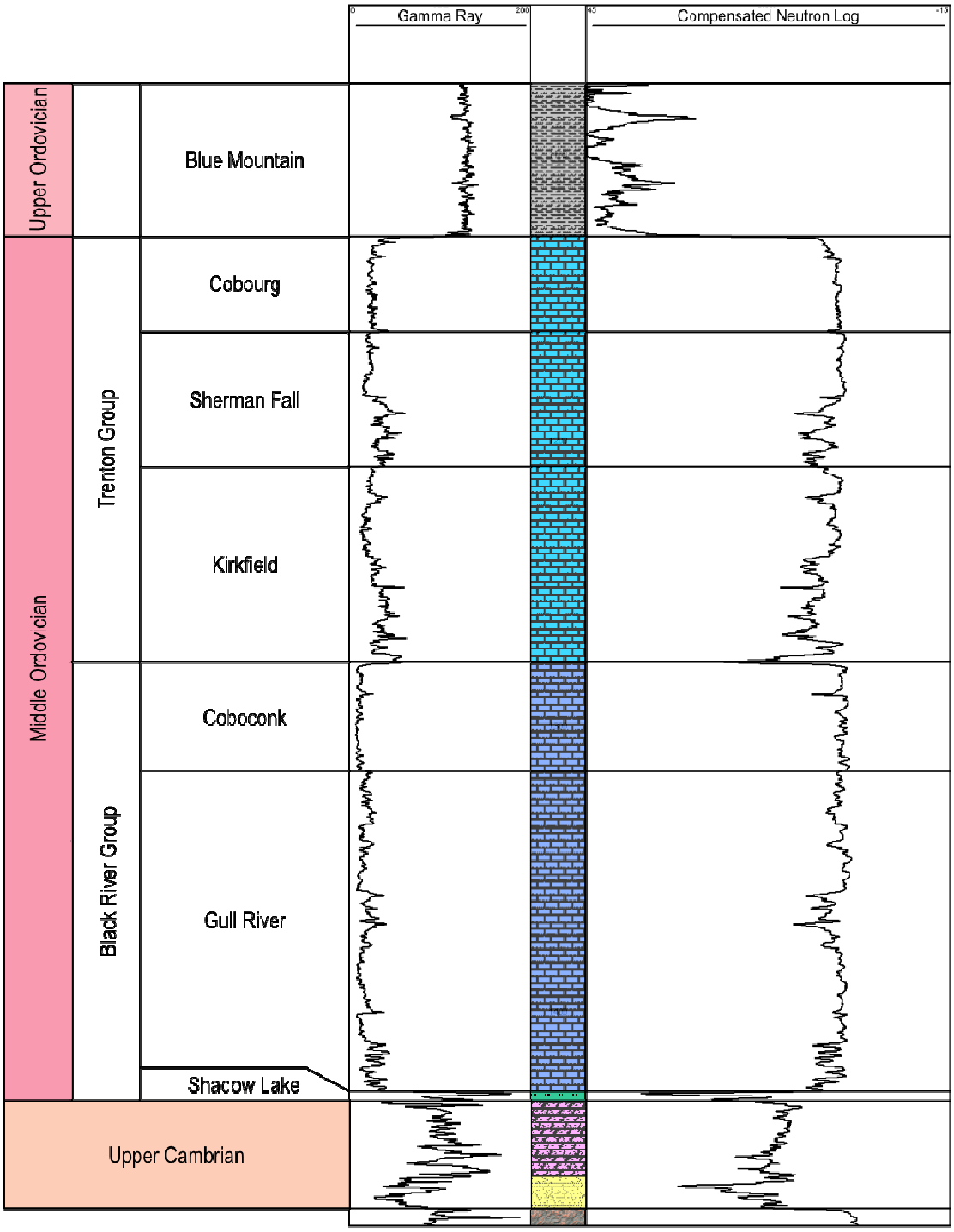



*Figure 4. Middle Ordovician stratigraphic column, southwestern Ontario*

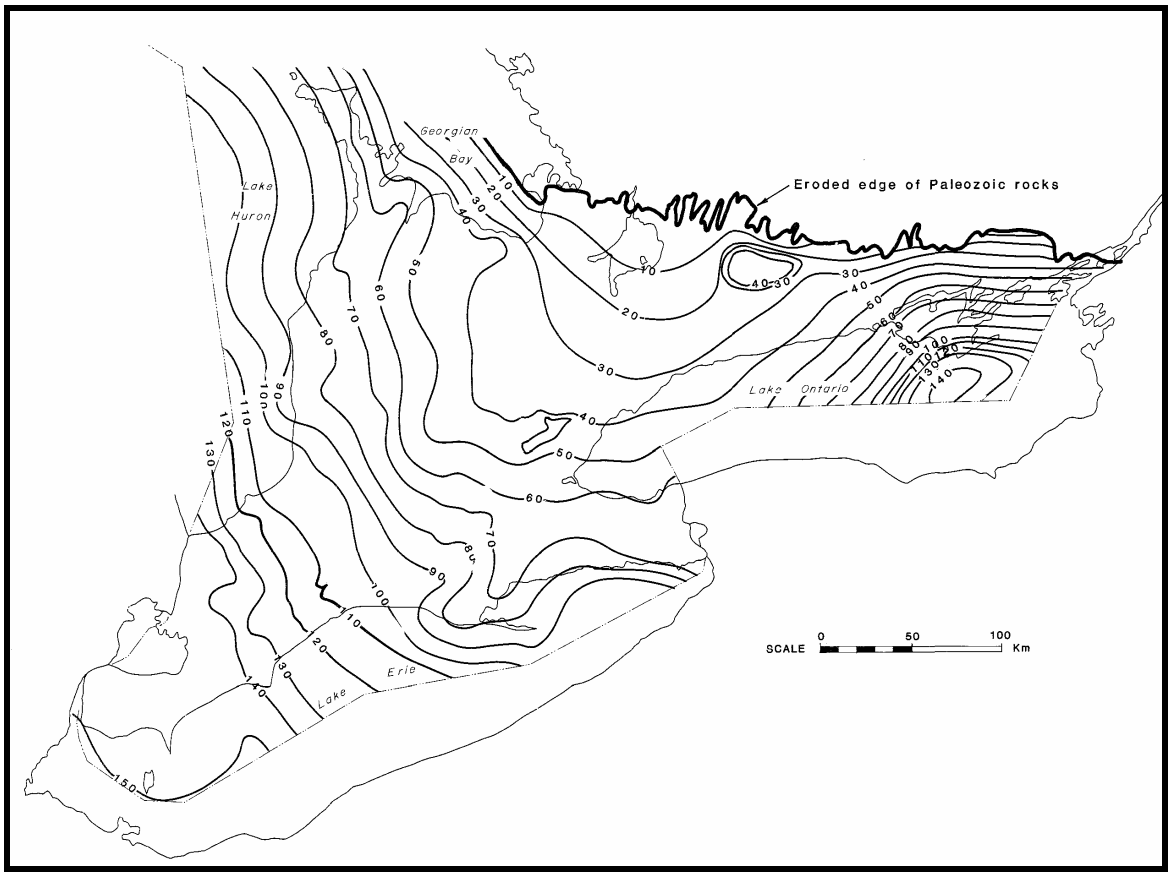



*Figure 5. Isopach of Black River carbonates in southwestern Ontario (compiled from Bailey Geological Services Ltd. and Cochrane, 1984).*

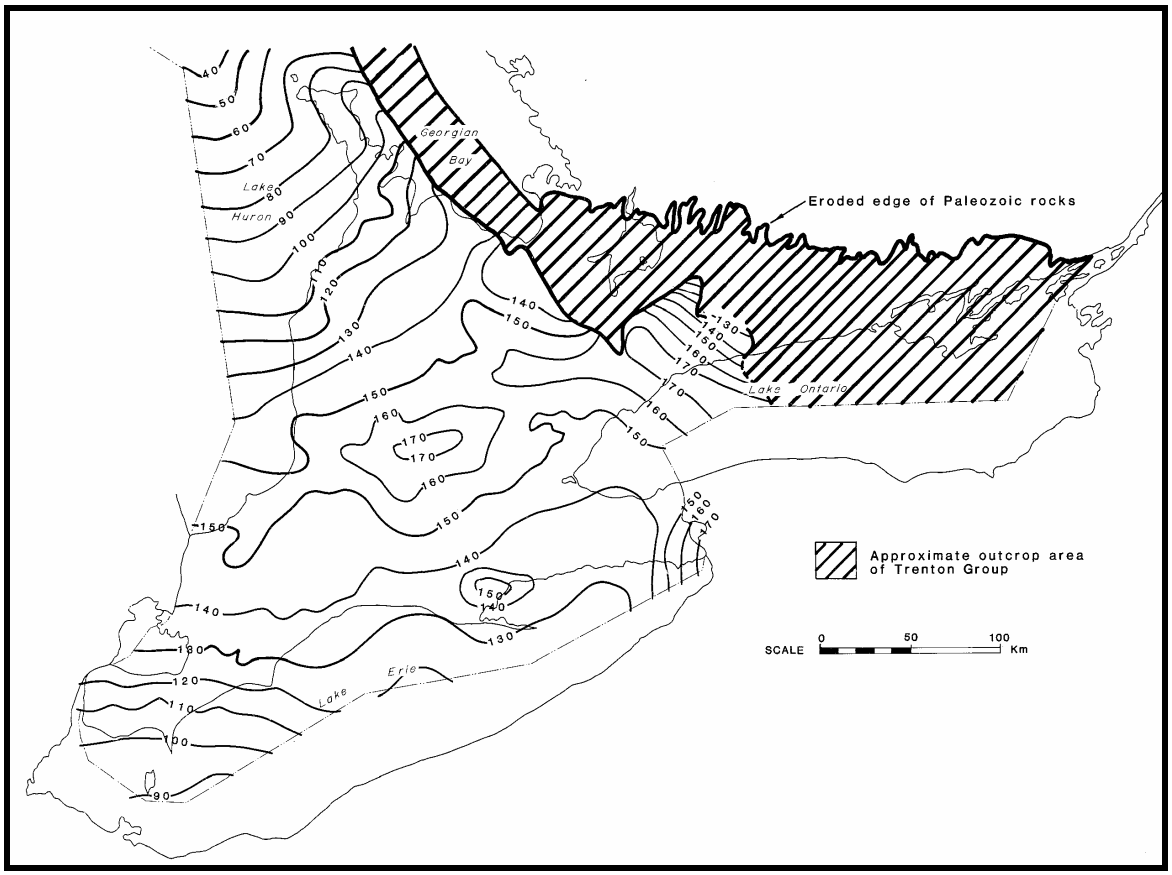



*Figure 6. Isopach of Trenton Group in southwestern Ontario (compiled from Bailey Geological Services Ltd. and Cochrane, 1984).*

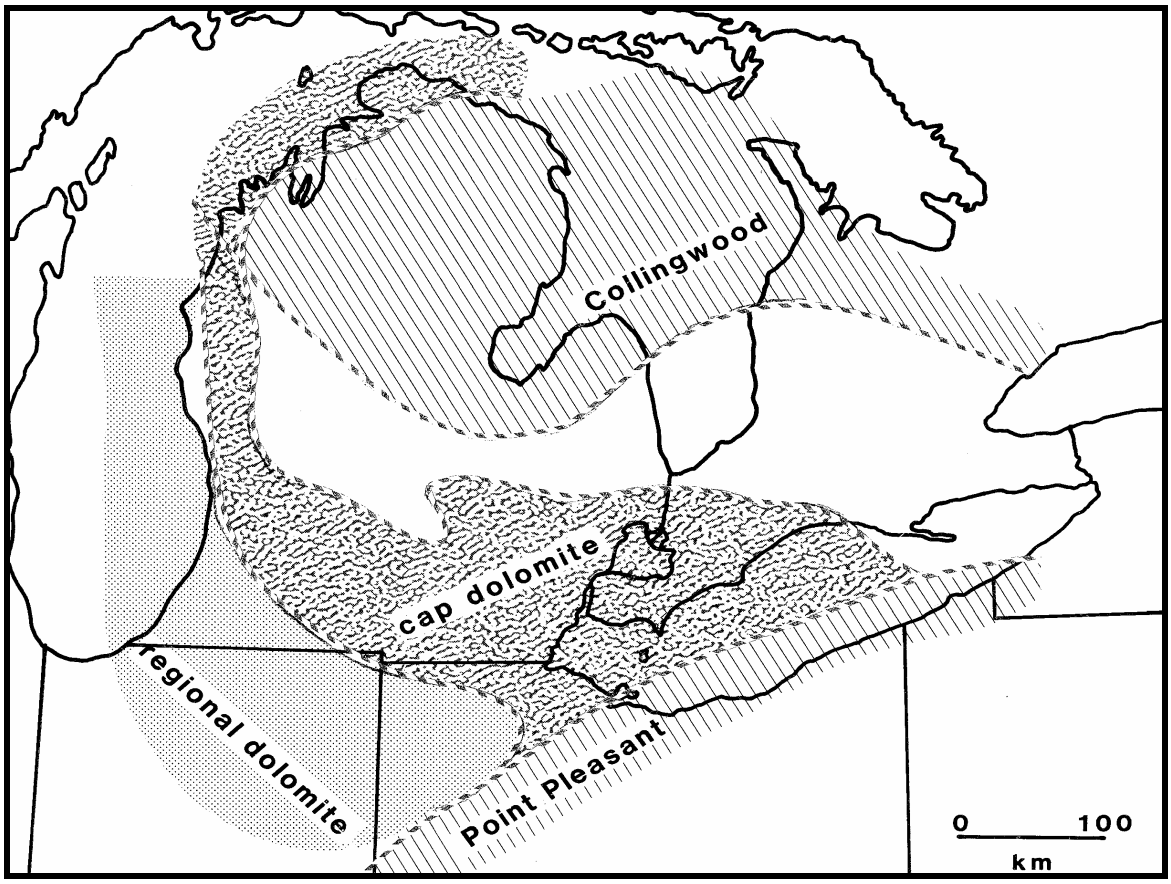



*Figure 7. Distribution of cap dolomite at top of Trenton Group in southwestern Ontario and Michigan. Compiled from subsurface well control and Hiatt and Nordeng (1985), Taylor and Sibley (1986), DeHass and Jones (1988), and Russell and Telford (1983).*

*Figure 8. Primary Trenton-Black River exploration and development area, southwestern Ontario*

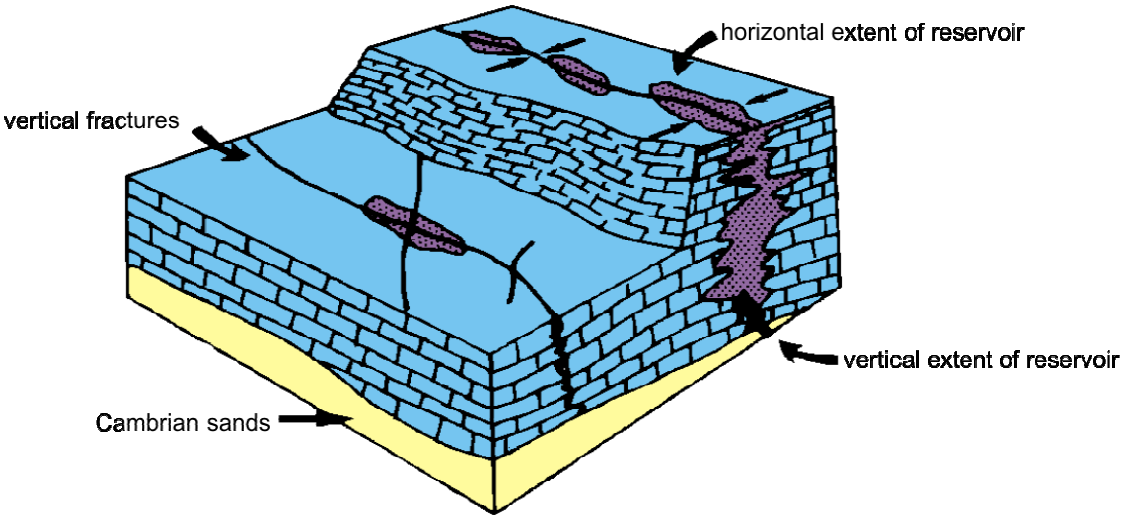



*Figure 9. Conceptual 3-D block diagram showing spatial distribution of Trenton-Black River dolomitized reservoir (modified from Ludvigson et al, 1983).*

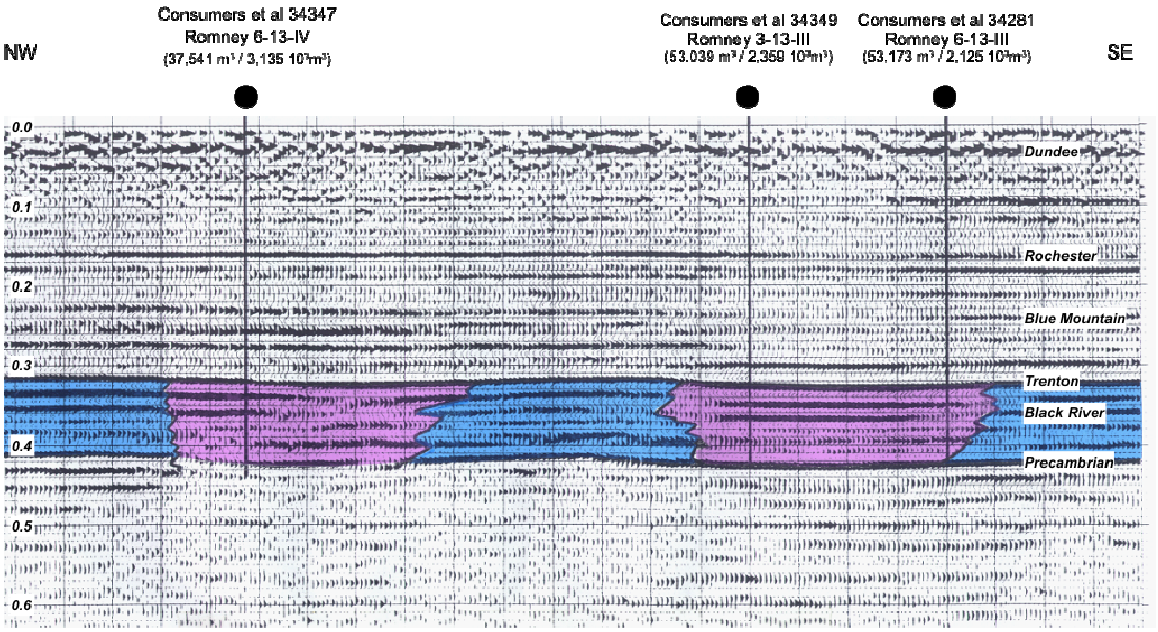



*Figure 10. Seismic profile over the Romney 6-13-III and Romney 6-13-IV pools (part of Renwick-Fargo field). Zones coloured purple represent location of interpreted Trenton-Black River dolomitized reservoir. Cumulative oil and gas production to end of 2002 shown in brackets below well name. Modified from Carter et al, 1996).*

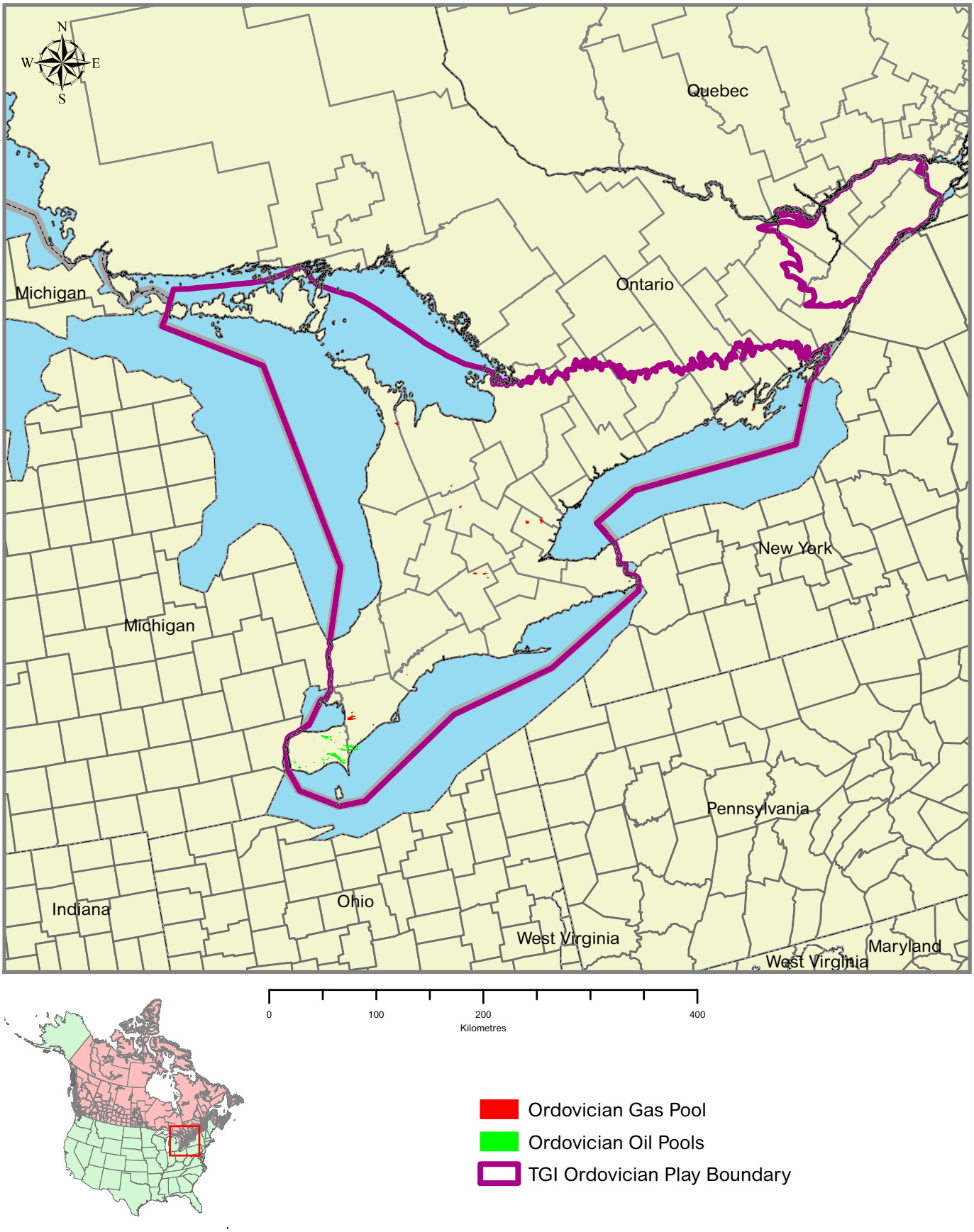



*Figure 11. Ordovician play boundary*

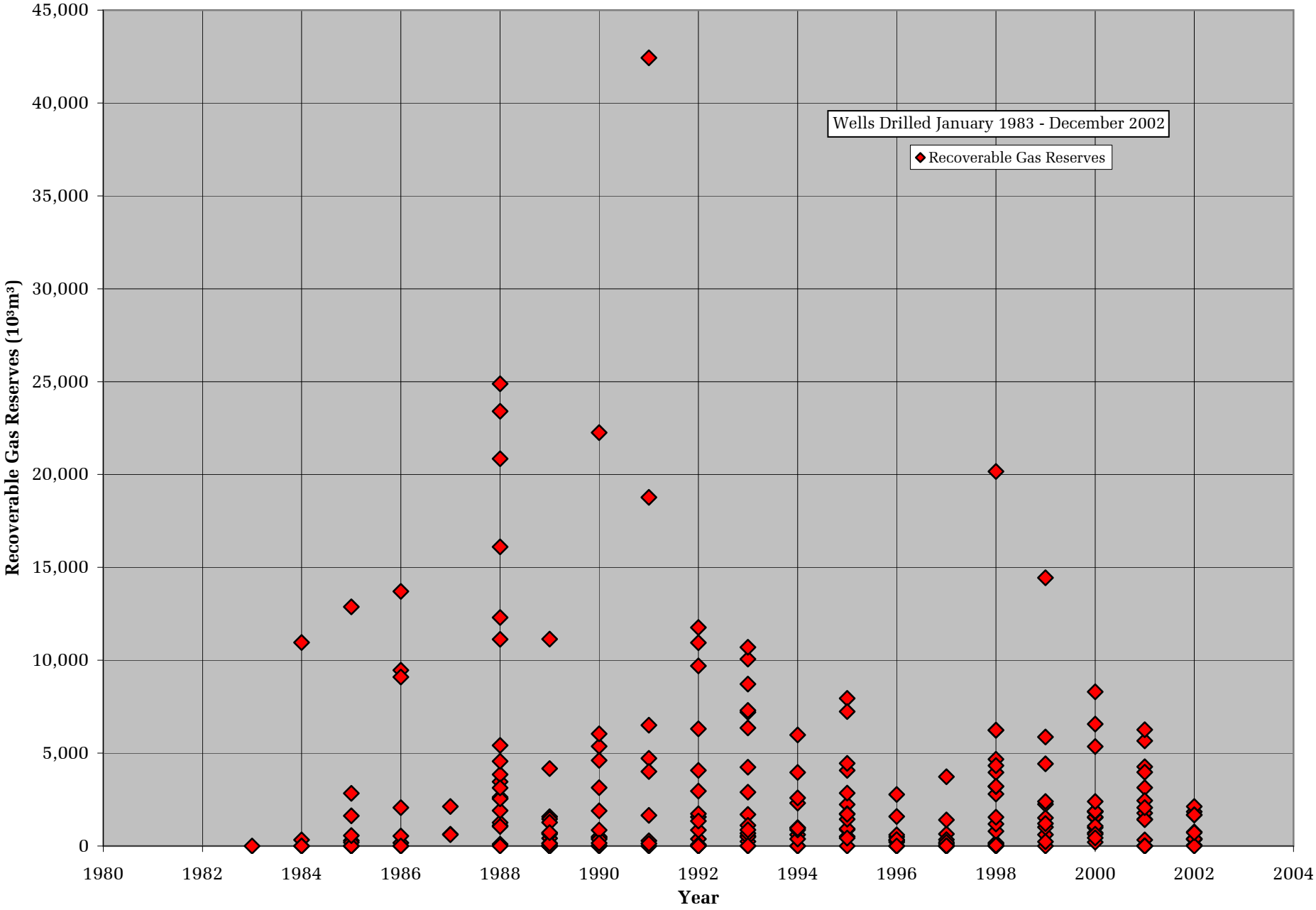



*Figure 12. Recoverable gas reserves versus discovery year for wells drilled 1983-2002*

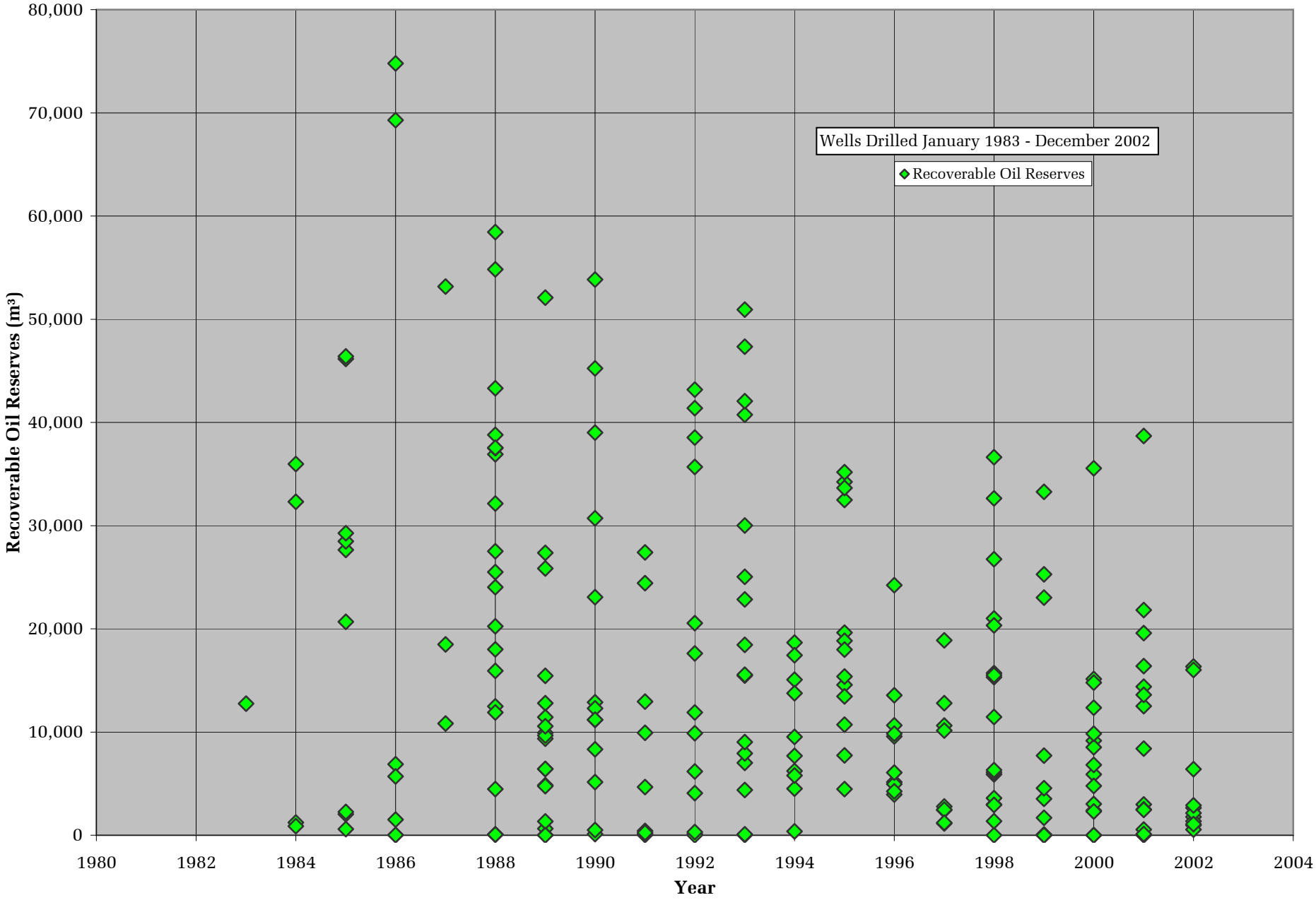



*Figure 13. Recoverable oil reserves versus discovery year for wells drilled 1983-2002*

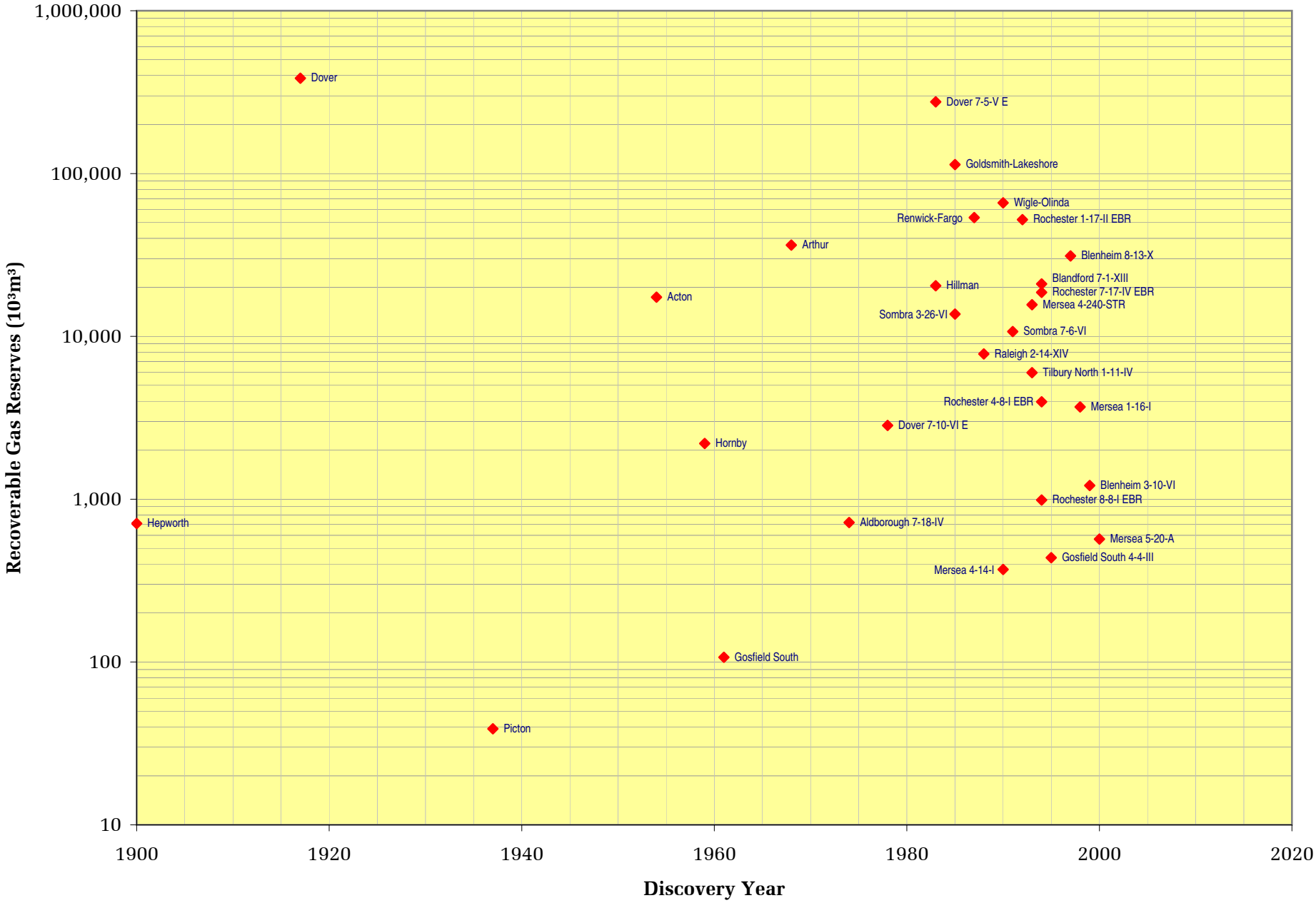



*Figure 14. Gas pool recoverable reserves versus discovery year*

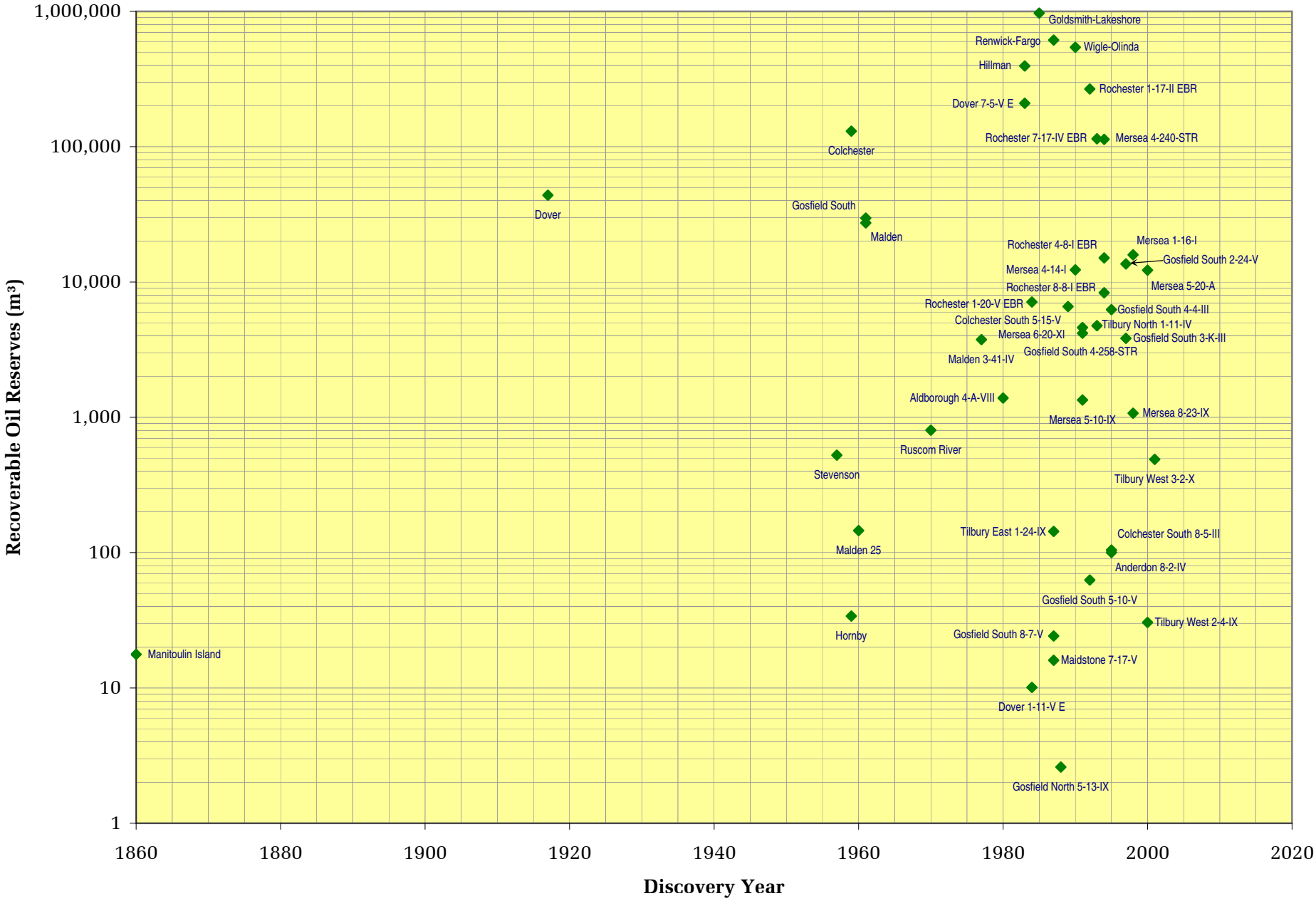



*Figure 15. Oil pool recoverable reserves versus discovery year*

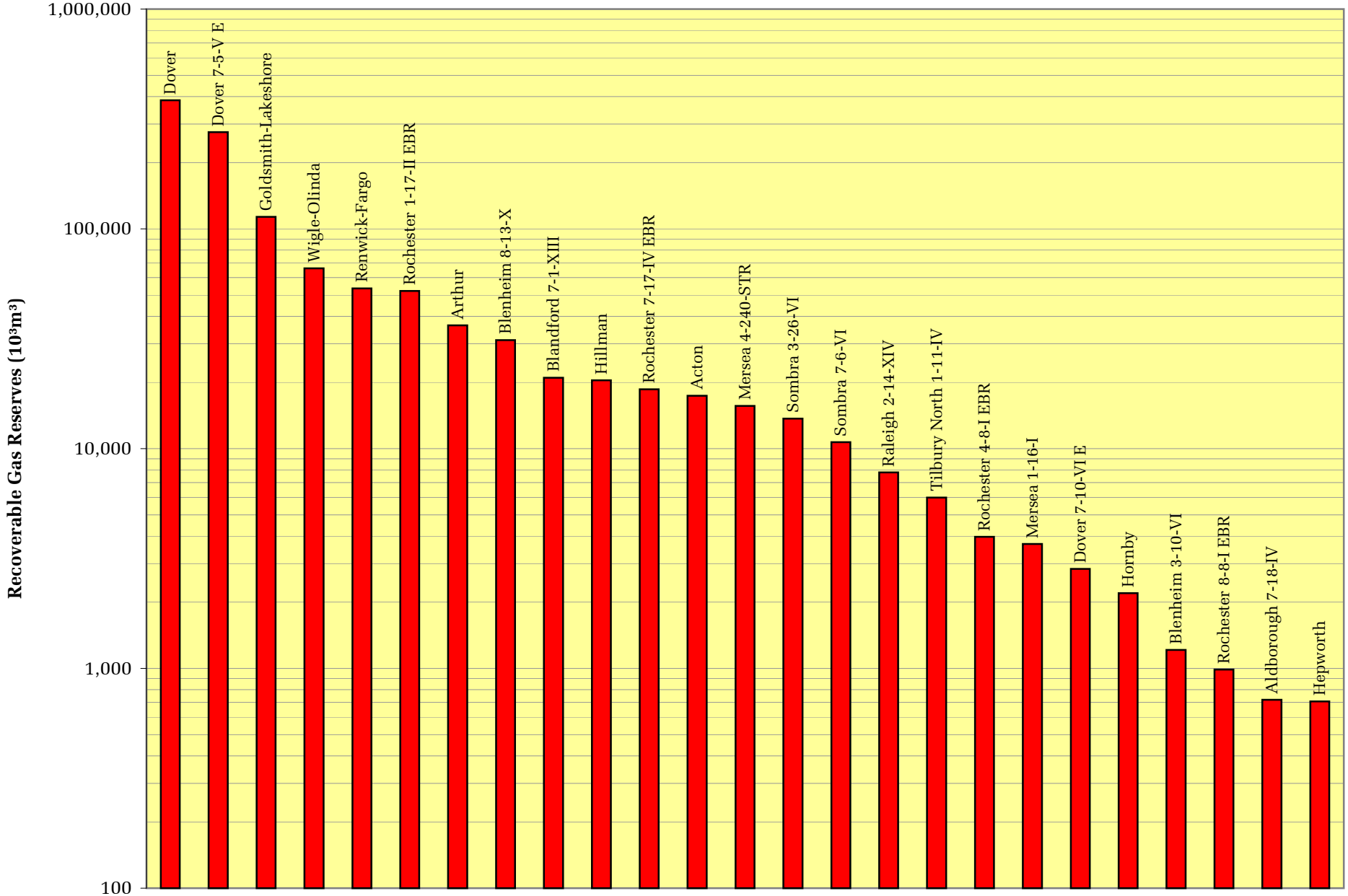



*Figure 16. Size distribution of recoverable gas reserves, top 25 pools*

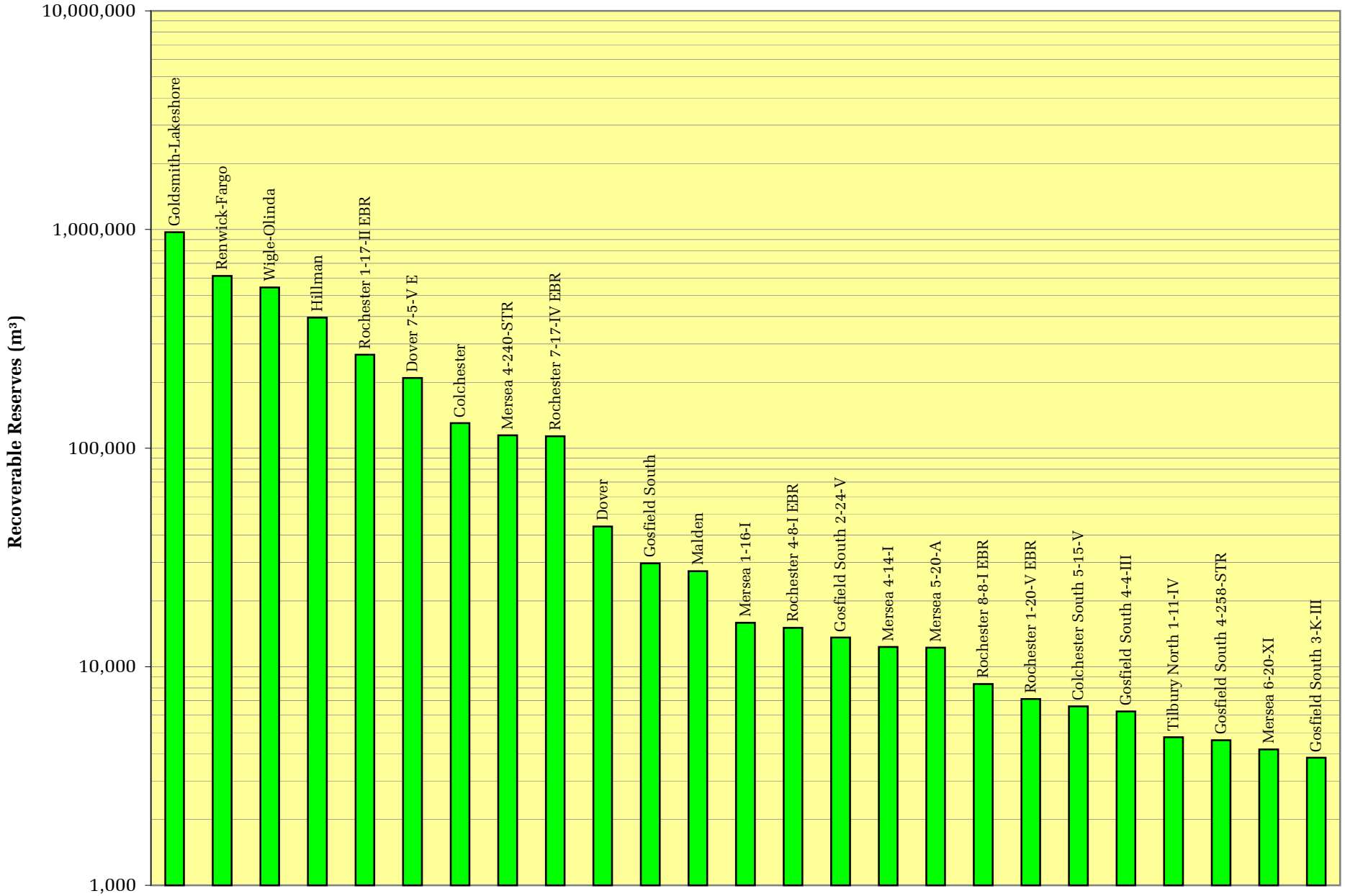



*Figure 17. Size distribution of recoverable oil reserves, top 25 pools*

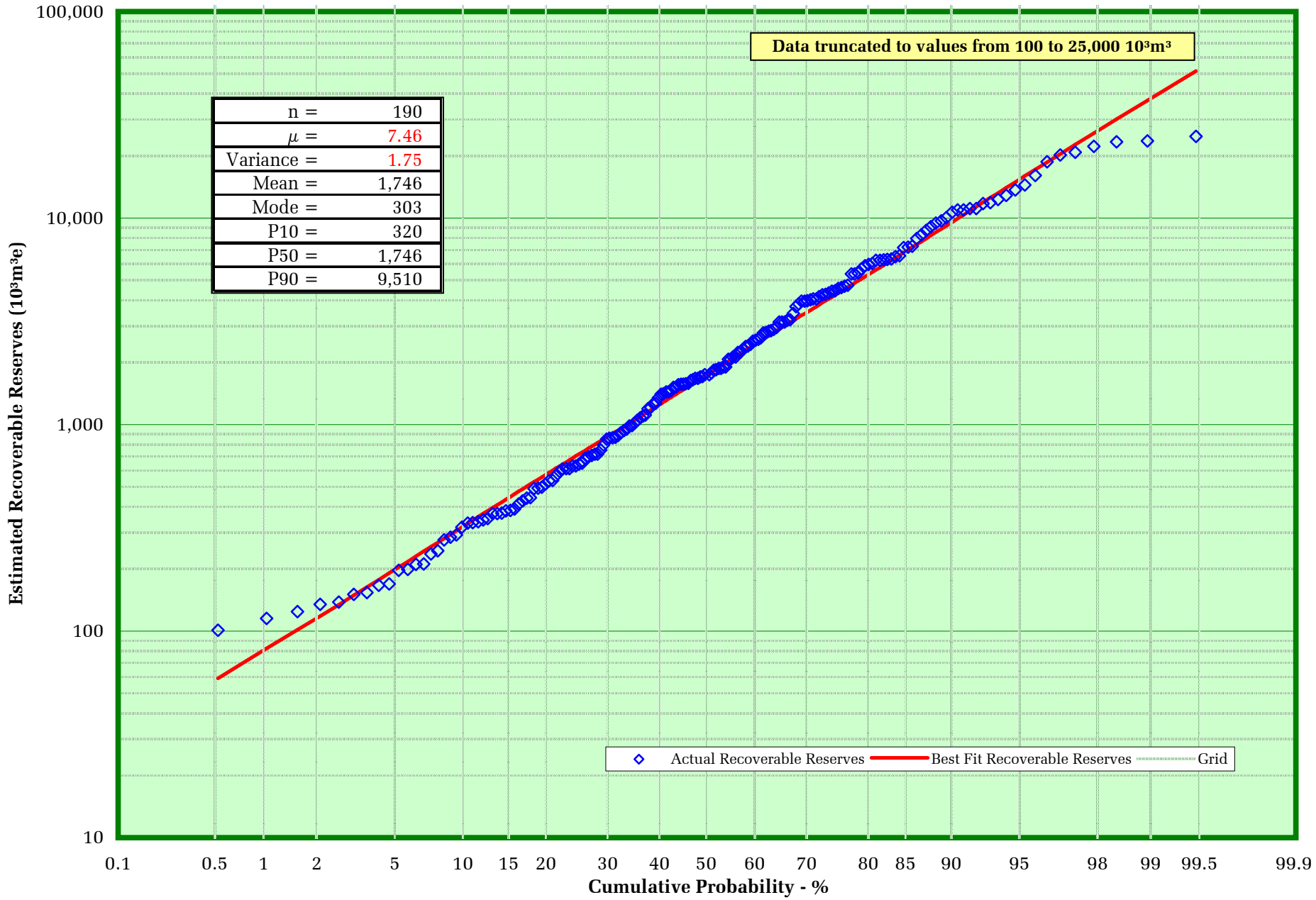



*Figure 18. Cumulative probability plot, recoverable gas reserves for wells drilled 1983-2002*

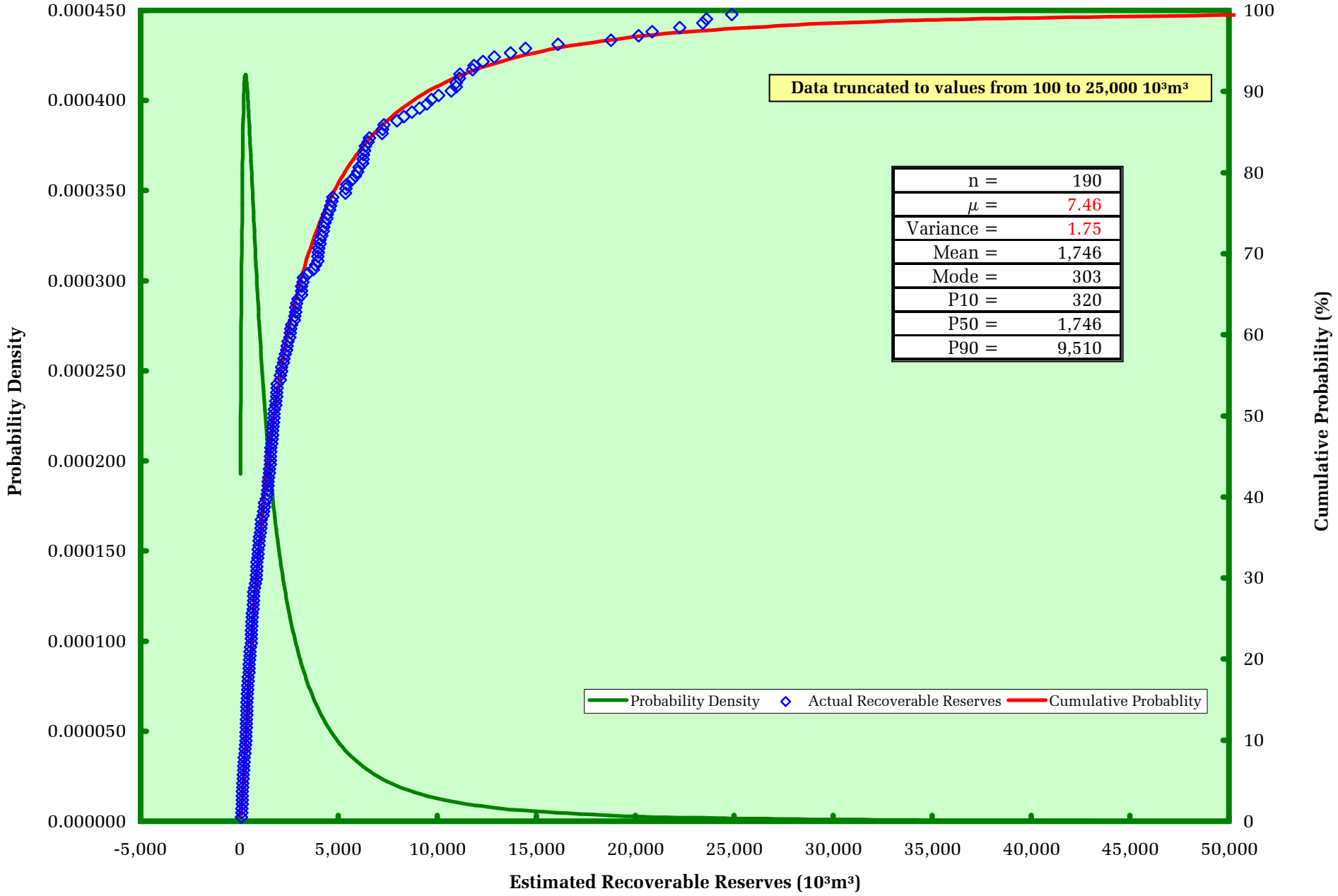



*Figure 19. Probability density and cumulative probability plot, recoverable gas reserves for wells drilled 1983-2002*

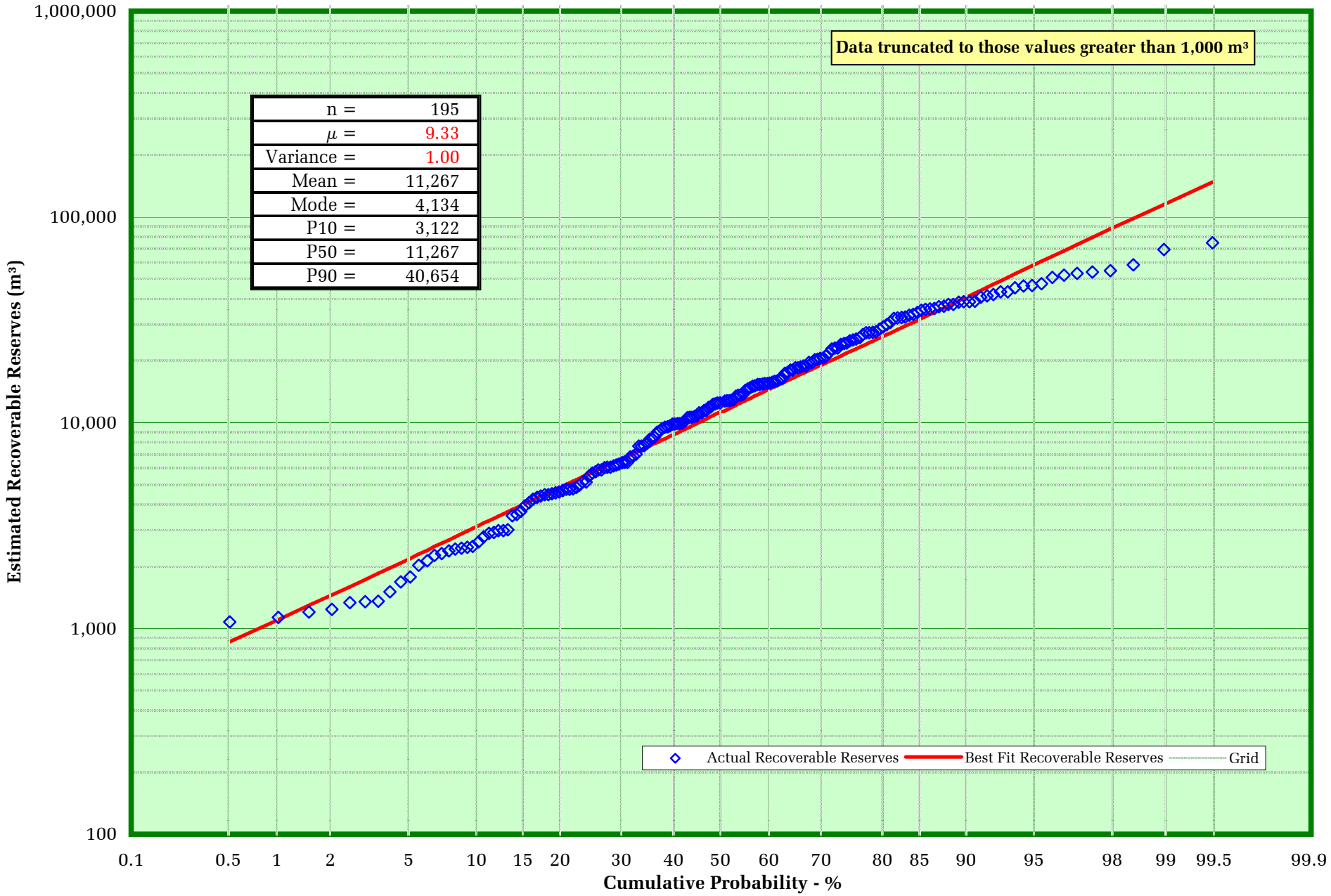



*Figure 20. Cumulative probability plot, recoverable oil reserves for wells drilled 1983-2002*

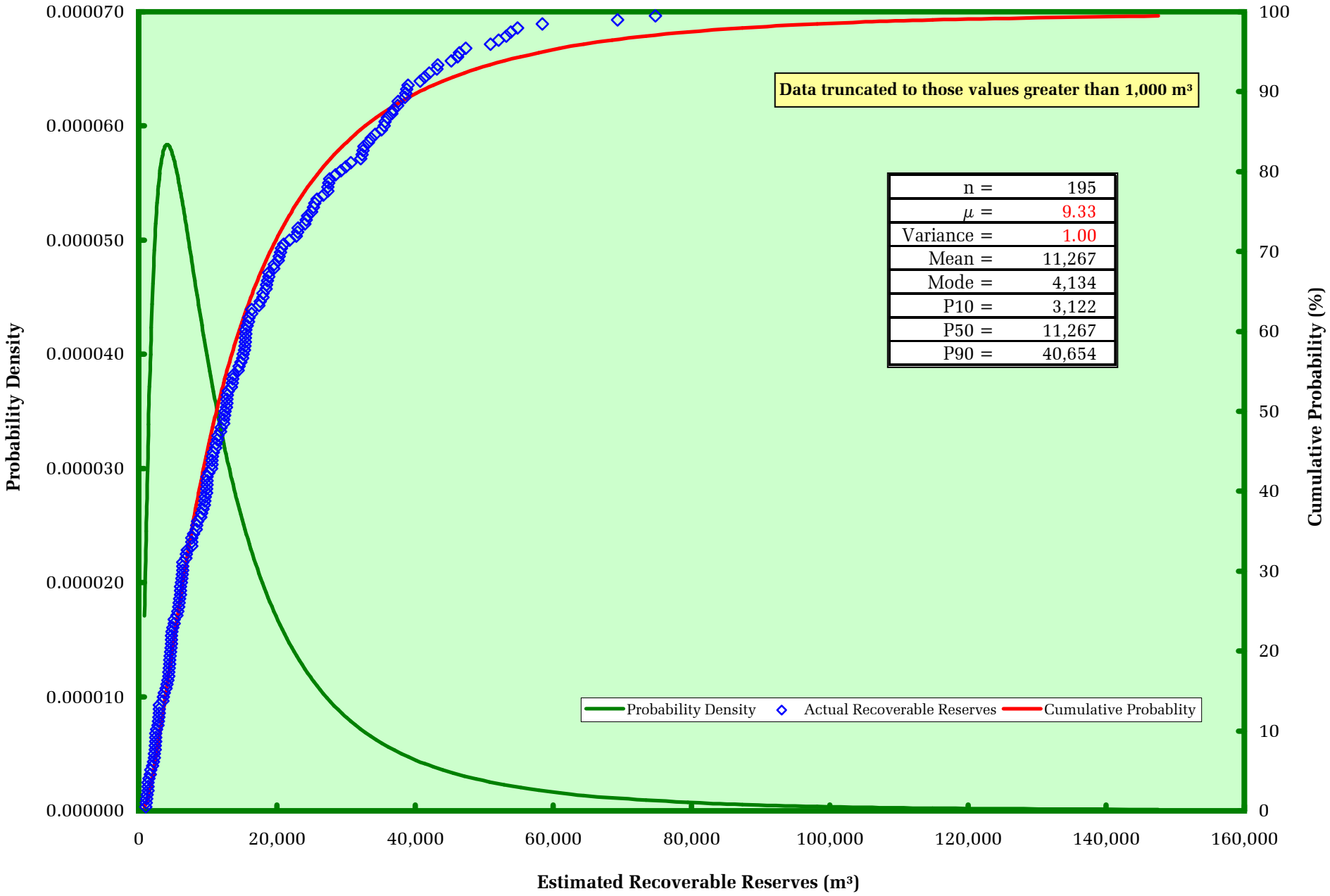



*Figure 21. Probability density and cumulative probaboity plot, recoverable oil reserves for wells drilled 1983-2002*

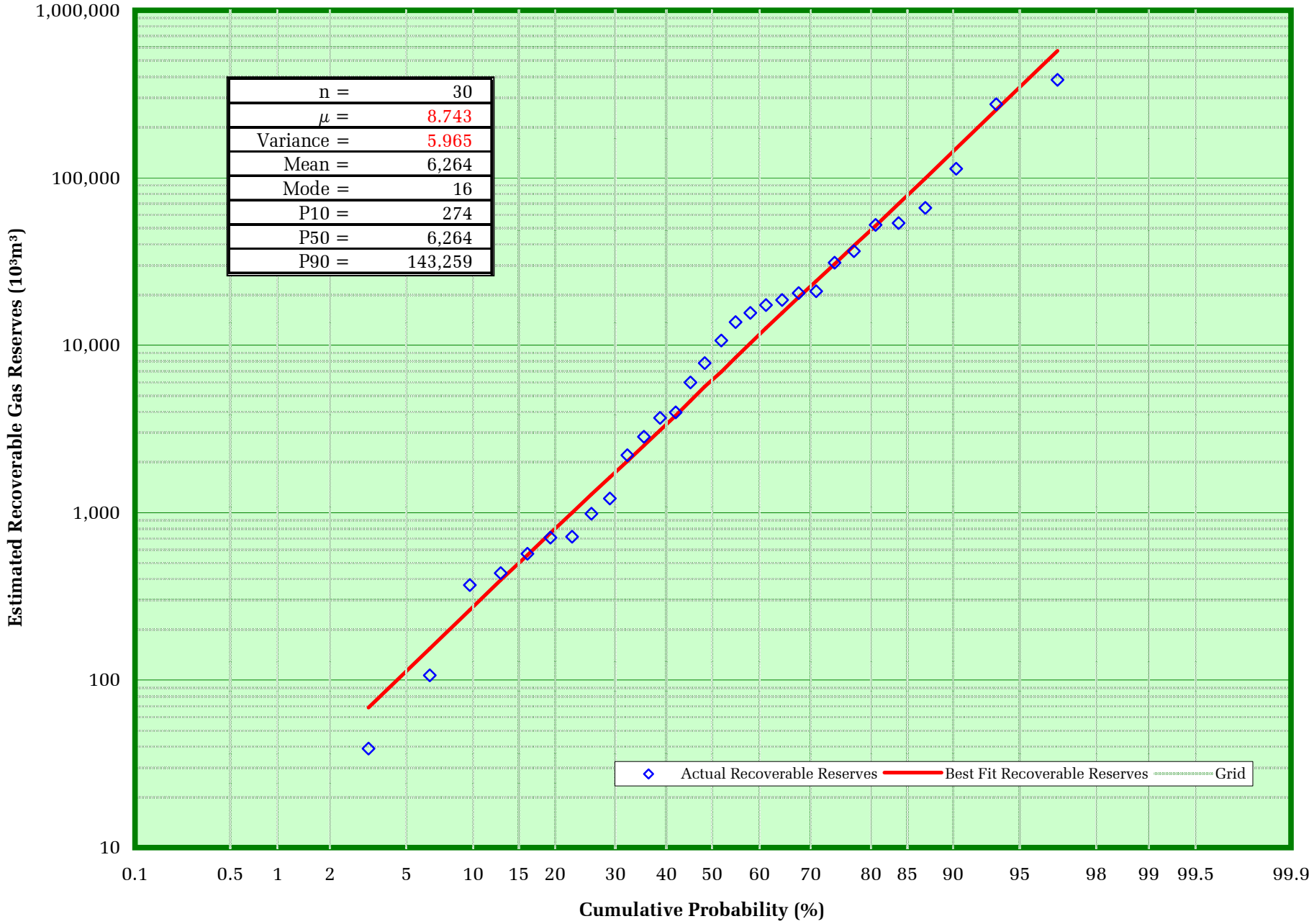



*Figure 22. Cumulative probability plot, recoverable gas reserves by pool*

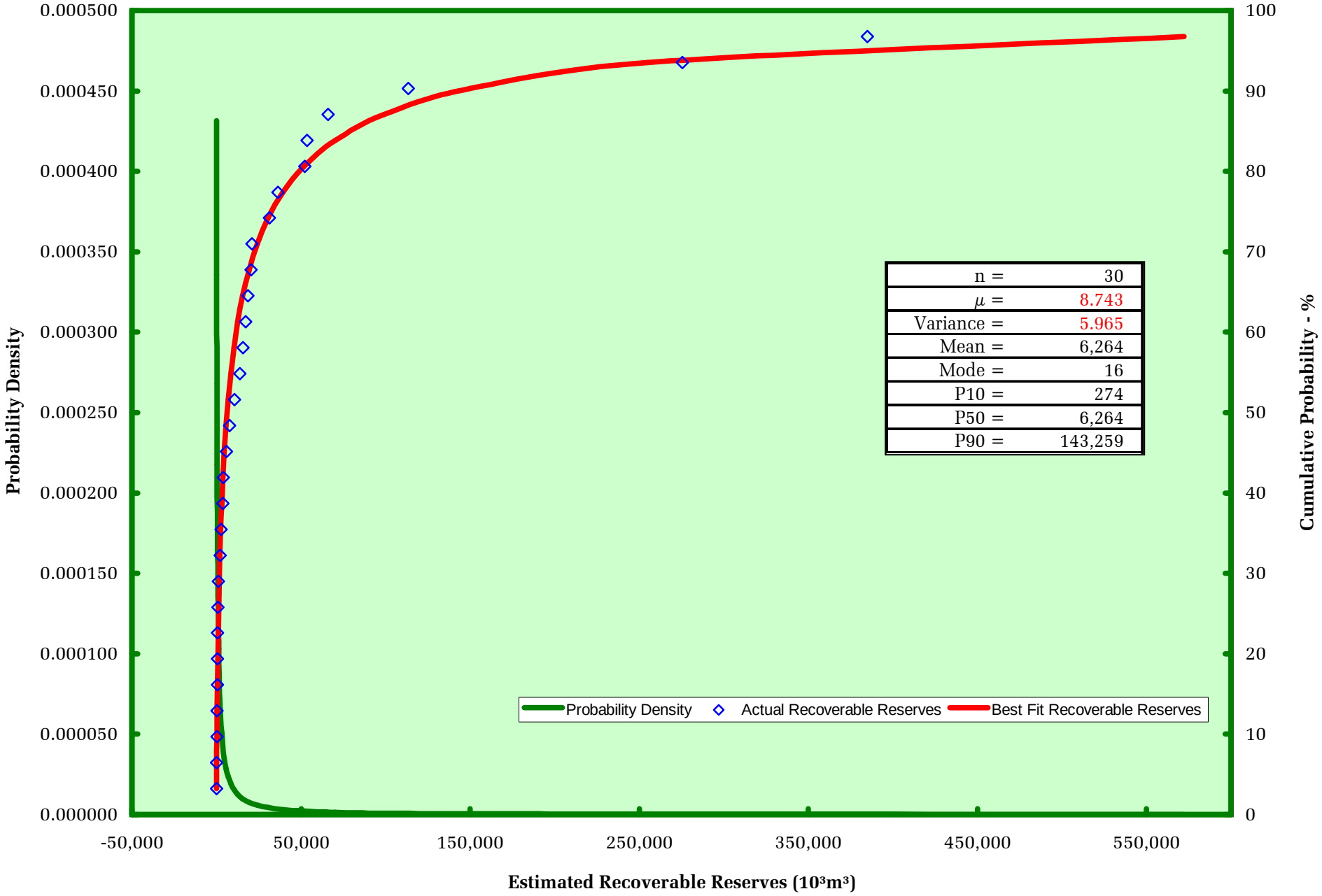



*Figure 23. Probability density and cumulative probability plot, recoverable gas reserves by pool*

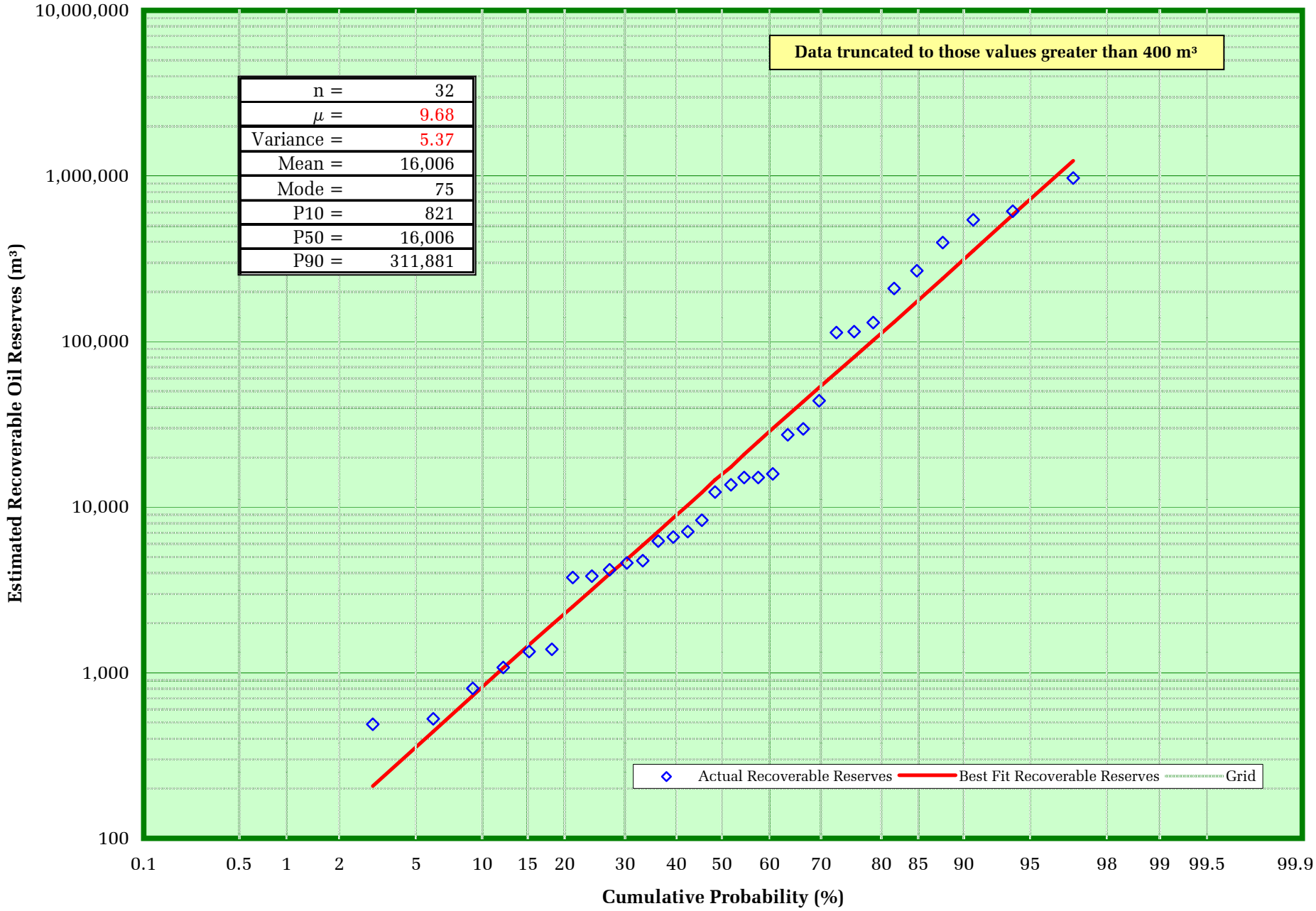



*Figure 24. Cumulative probability plot, recoverable oil reserves by pool*

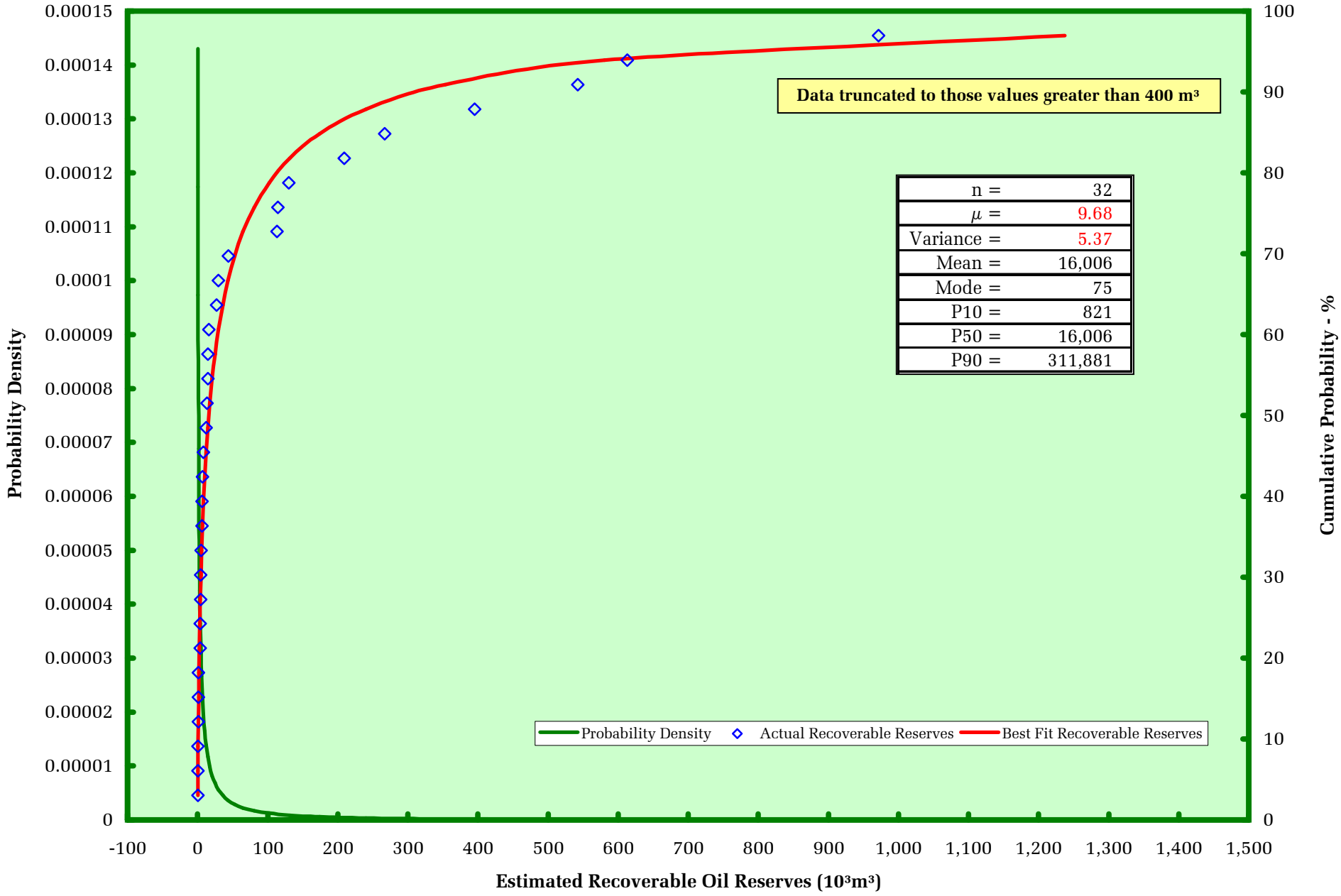



*Figure 25. Probability density and cumulative probability plot, recoverable oil reserves by pool*

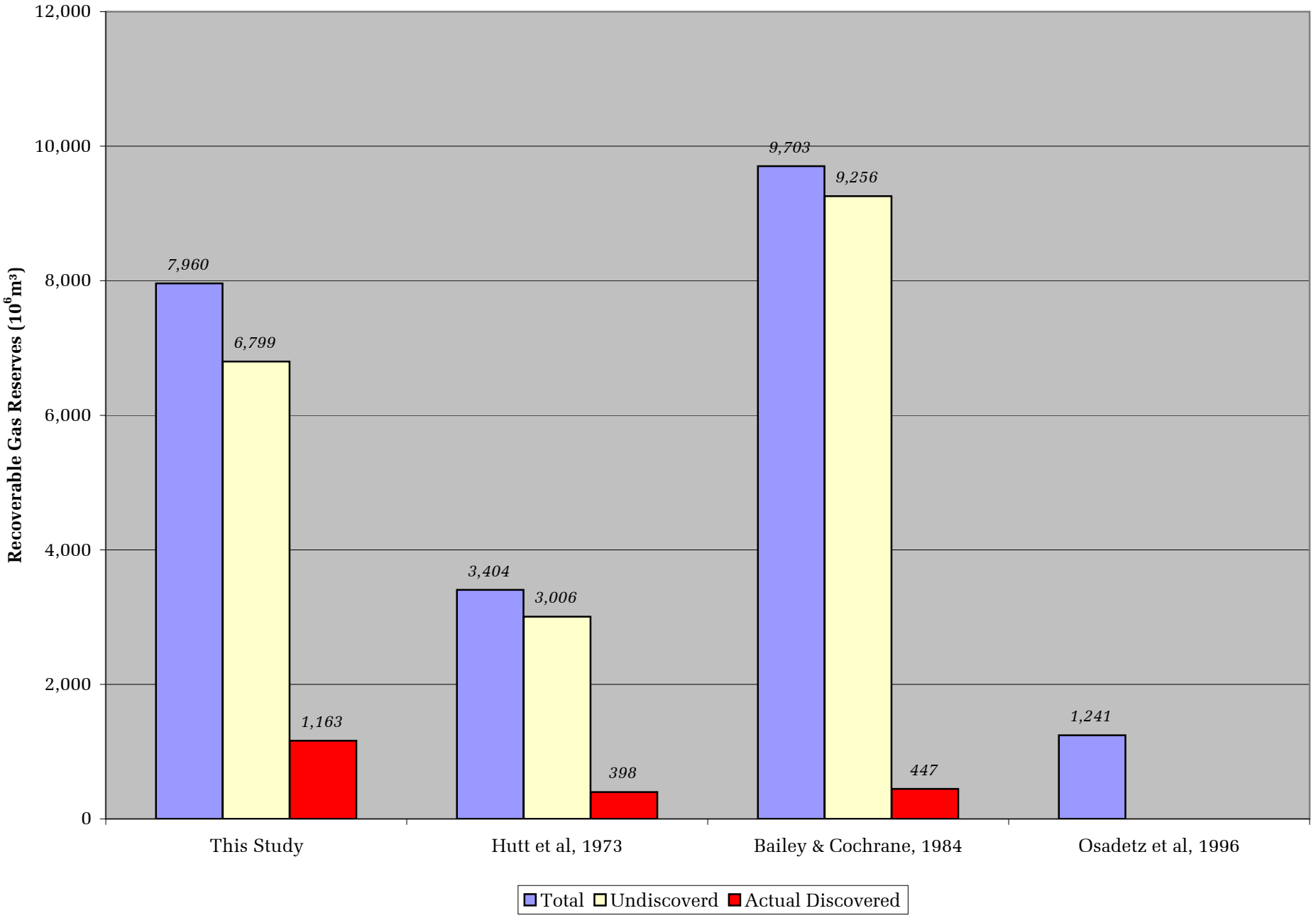



*Figure 26. Comparison of estimated recoverable gas reserves from this study with previously published reports.*

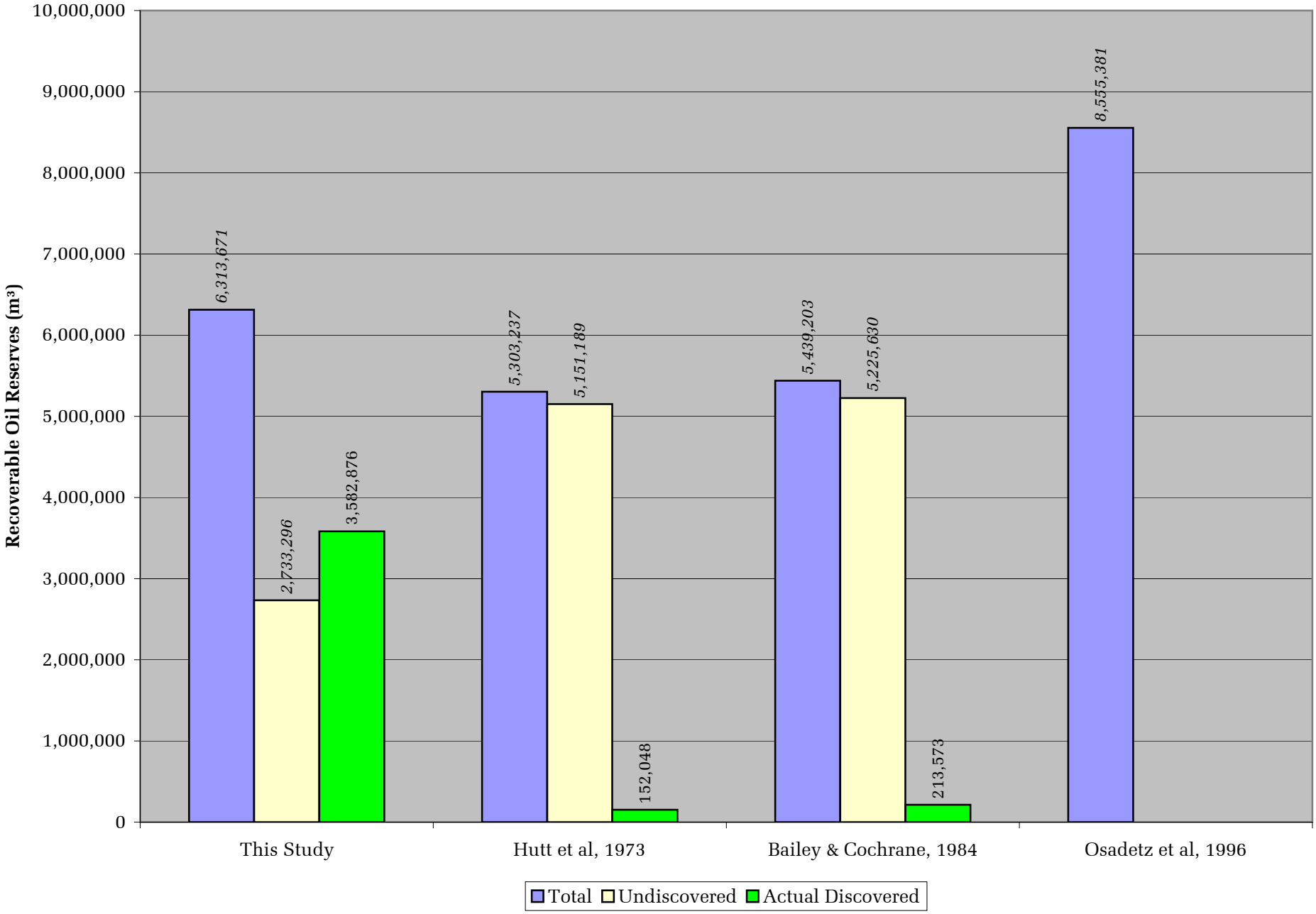
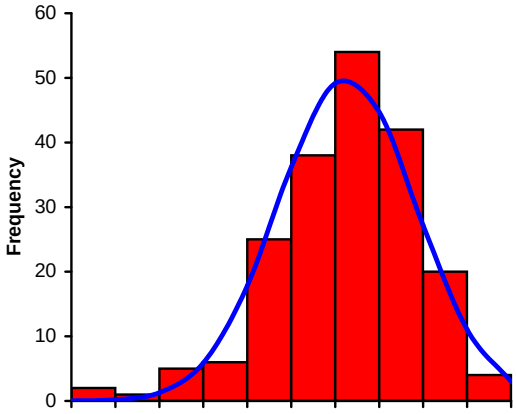


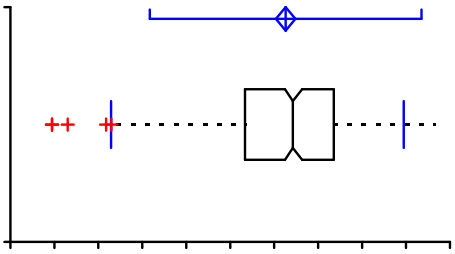

*Figure 27. Comparison of estimated recoverable oil reserves he results from this study with previously published reports.*

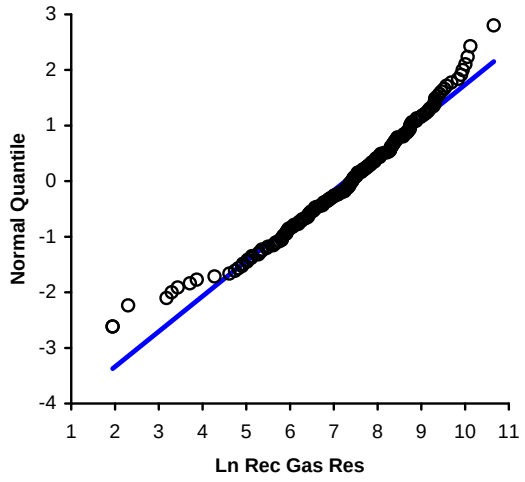
# APPENDIX A
# CONTINUOUS SUMMARY STATISTICS FOR RESOURCE ASSESSMENT

| | | | |
|---|---|---|---|
| **Test** | Continuous summary descriptives<br>Recoverable Gas Reserves by Well - All Data | | |
| **Variable** | Ln Rec Gas Res | | |
| **Performed by** | Robert Trevail | **Date** | 9 February 2005 |

*Note: Includes all available data*






| | |
|---|---|
| **n** | 197 |
| **Mean** | 7.262 |
| **95% CI** | 7.041 to 7.484 |
| **Variance** | 2.4856 |
| **SD** | 1.5766 |
| **SE** | 0.1123 |
| **CV** | 22% |
| **Median** | 7.424 |
| **95.4% CI** | 7.247 to 7.636 |
| **Range** | 8.709700789 |
| **IQR** | 2.022074881 |

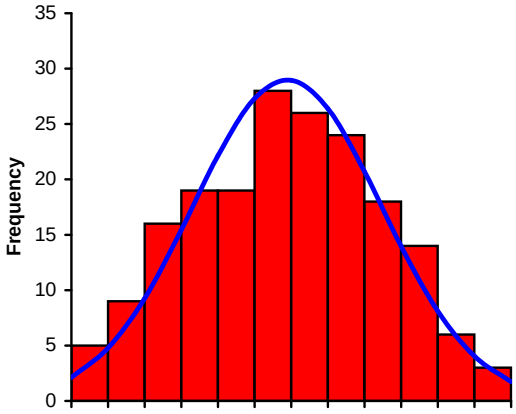
| **Percentile** | |
|---|---|
| **2.5th** | 3.290 |
| **25th** | 6.337 |
| **50th** | 7.424 |
| **75th** | 8.359 |
| **97.5th** | 9.948 |

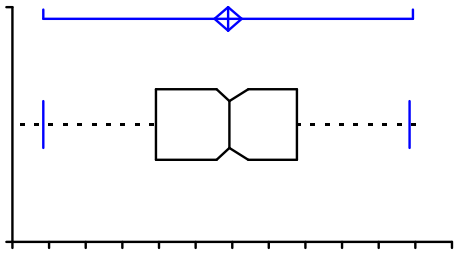
| | **Coefficient** | **p** |
|---|---|---|
| **Shapiro-Wilk** | 0.9697 | 0.0003 |
| **Skewness** | -0.7145 | 0.0001 |
| **Kurtosis** | 0.9154 | 0.0331 |

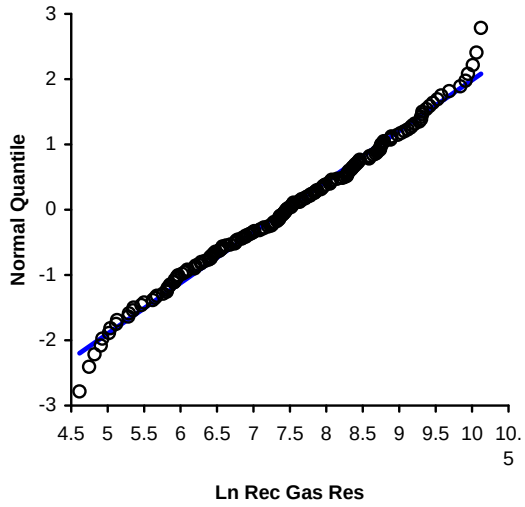
*Appendix A - Figure 1. Continuous summary statistics - recoverable gas reserves by well*

| | | | |
|---|---|---|---|
| **Test** | Continuous summary descriptives<br>Recoverable Gas Reserves by Well - Truncated Data | | |
| **Variable** | Ln Rec Gas Res | | |
| **Performed by** | Robert Trevail | **Date** | 9 February 2005 |

*Note: Data truncated to those values from 100 10³m³ to 25,000 10³m³.*






| | |
|---|---|
| **n** | 187 |
| **Mean** | 7.444 |
| **95% CI** | 7.259 to 7.630 |
| **Variance** | 1.6573 |
| **SD** | 1.2874 |
| **SE** | 0.0941 |
| **CV** | 17% |

| | |
|---|---|
| **Median** | 7.462 |
| **96.0% CI** | 7.286 to 7.720 |
| **Range** | 5.506658836 |
| **IQR** | 1.92522222 |

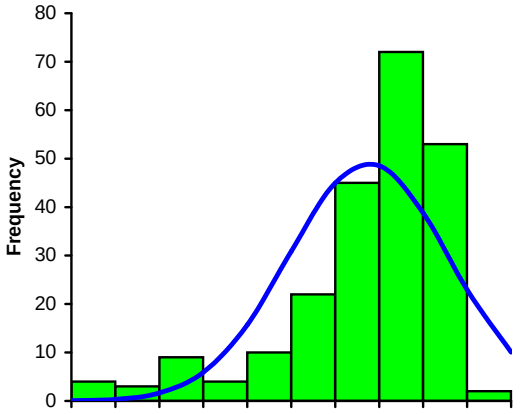
| **Percentile** | |
|---|---|
| **2.5th** | 4.921 |
| **25th** | 6.459 |
| **50th** | 7.462 |
| **75th** | 8.384 |
| **97.5th** | 9.922 |

| | **Coefficient** | **p** |
|---|---|---|
| **Shapiro-Wilk** | 0.9870 | 0.0840 |
| **Skewness** | -0.0817 | 0.6396 |
| **Kurtosis** | -0.6874 | 0.0046 |

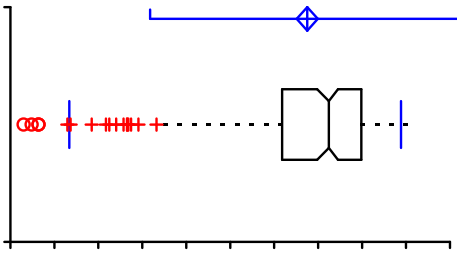
*Appendix A - Figure 2. Continuous summary statistics - recoverable gas reserves by well, truncated data*

| | | | |
|---|---|---|---|
| **Test** | Continuous summary descriptives<br>Recoverable Oil Reserves by Well - All Data | | |
| **Variable** | Ln Rec Oil Res | | |
| **Performed by** | Robert Trevail | **Date** | 9 February 2005 |

*Note: Includes all available data*

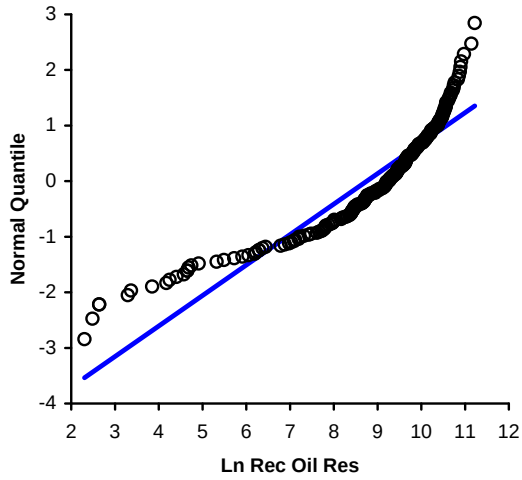



| | |
|---|---|
| **n** | 224 |
| **Mean** | 8.754 |
| **95% CI** | 8.514 to 8.994 |
| **Variance** | 3.3299 |
| **SD** | 1.8248 |
| **SE** | 0.1219 |
| **CV** | 21% |



| | |
|---|---|
| **Median** | 9.245 |
| **96.2% CI** | 8.979 to 9.453 |
| **Range** | 8.919800888 |
| **IQR** | 1.800866441 |

| **Percentile** | |
|---|---|
| **2.5th** | 3.340 |
| **25th** | 8.181 |
| **50th** | 9.245 |
| **75th** | 9.981 |
| **97.5th** | 10.886 |

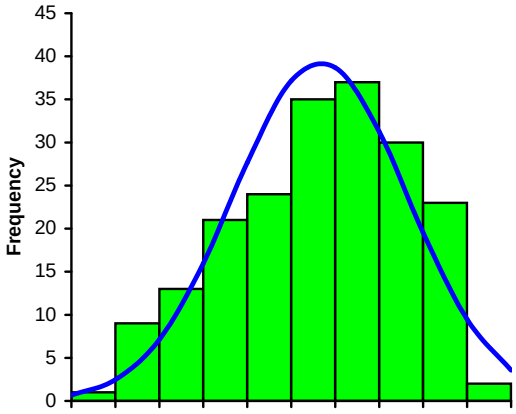


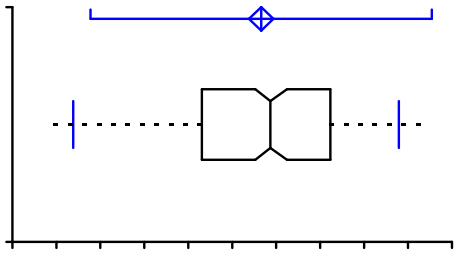

| | **Coefficient** | **p** |
|---|---|---|
| **Shapiro-Wilk** | 0.8595 | <0.0001 |
| **Skewness** | -1.5117 | <0.0001 |
| **Kurtosis** | 2.1923 | 0.0001 |

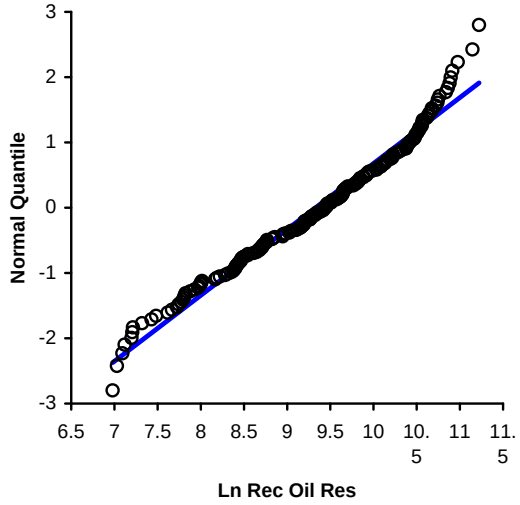
*Appendix A - Figure 3. Continuous summary statistics - recoverable oil reserves by well*

| | | | |
|---|---|---|---|
| **Test** | Continuous summary descriptives<br>Recoverable Oil Reserves by Well - Truncated Data | | |
| **Variable** | Ln Rec Oil Res | | |
| **Performed by** | Robert Trevail | **Date** | 9 February 2005 |

*Note: Data truncated to those values greater than 1,000 m³*






| | |
|---|---|
| **n** | 195 |
| **Mean** | 9.330 |
| **95% CI** | 9.190 to 9.470 |
| **Variance** | 0.9811 |
| **SD** | 0.9905 |
| **SE** | 0.0709 |
| **CV** | 11% |

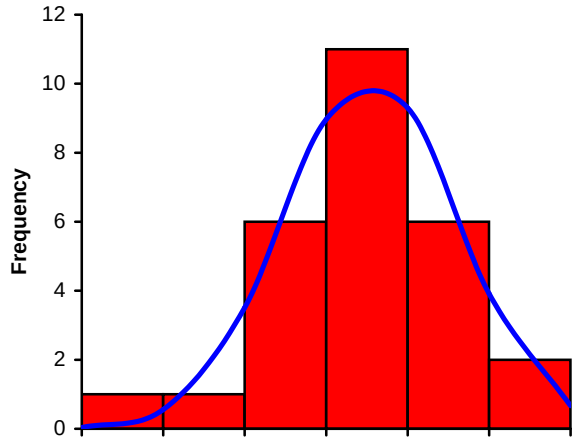
| | |
|---|---|
| **Median** | 9.433 |
| **95.5% CI** | 9.264 to 9.624 |
| **Range** | 4.24231004 |
| **IQR** | 1.461832482 |

| **Percentile** | |
|---|---|
| **2.5th** | 7.191 |
| **25th** | 8.654 |
| **50th** | 9.433 |
| **75th** | 10.116 |
| **97.5th** | 10.896 |

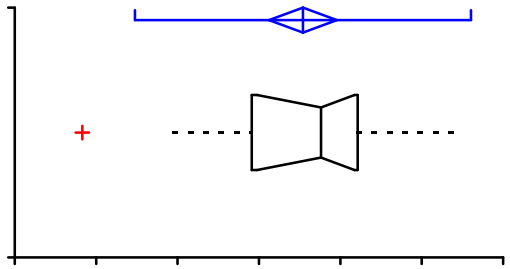
| | **Coefficient** | **p** |
|---|---|---|
| **Shapiro-Wilk** | 0.9747 | 0.0013 |
| **Skewness** | -0.3727 | 0.0339 |
| **Kurtosis** | -0.5840 | 0.0242 |

*Appendix A - Figure 4. Continuous summary statistics - recoverable oil reserves by well, truncated data*

| | | | |
|---|---|---|---|
| Test | Continuous summary descriptives<br>Recoverable Gas Reserves by Pool | | |
| Variable | Ln Rec Gas Res | | |
| Performed by | Robert Trevail | **Date** | 3 March 2005 |

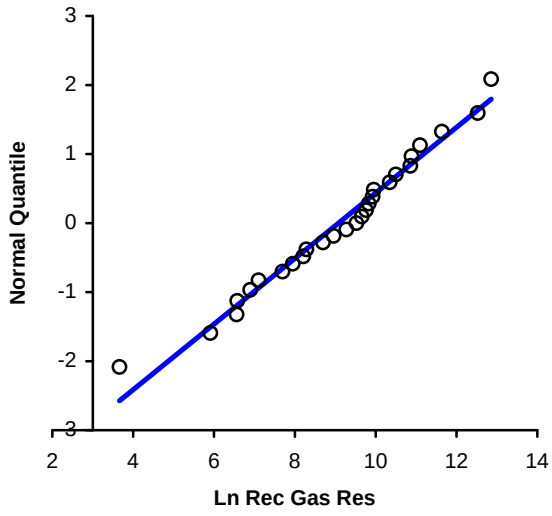



| | |
|---|---|
| **n** | 30 |
| **Mean** | 9.081 |
| **95% CI** | 8.247 to 9.914 |
| **Variance** | 4.4373 |
| **SD** | 2.1065 |
| **SE** | 0.4054 |
| **CV** | 23% |



| | |
|---|---|
| **Median** | 9.526 |
| **98.1% CI** | 7.951 to 10.348 |
| **Range** | 9.200103059 |
| **IQR** | 2.600946748 |

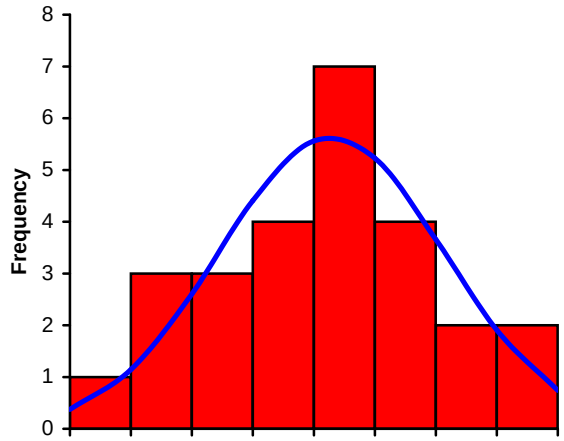
| **Percentile** | |
|---|---|
| **2.5th** | - |
| **25th** | 7.824 |
| **50th** | 9.526 |
| **75th** | 10.425 |
| **97.5th** | - |

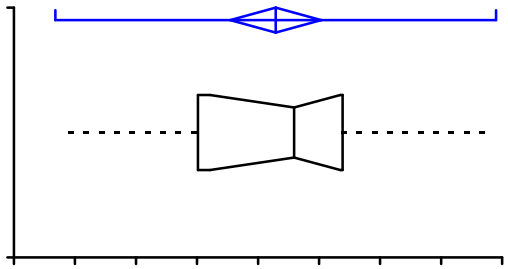


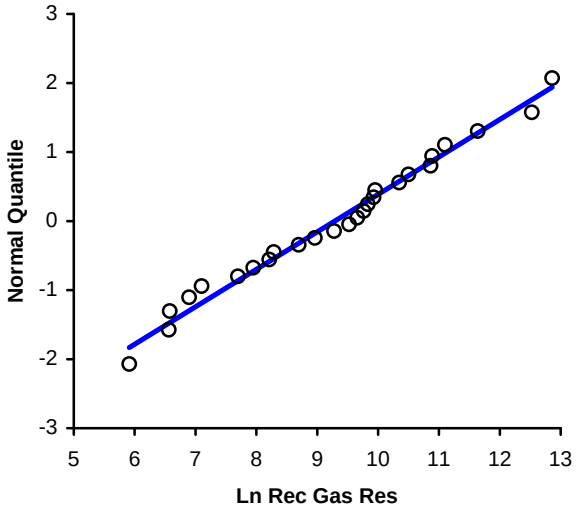

| | **Coefficient** | **p** |
|---|---|---|
| **Shapiro-Wilk** | 0.9784 | 0.8254 |
| **Skewness** | -0.4774 | 0.2689 |
| **Kurtosis** | 0.3640 | 0.5185 |

*Appendix A - Figure 5. Continuous summary statistics - recverable gas reserves by pool*

| | | | |
|---|---|---|---|
| Test | Continuous summary descriptives<br>Recoverable Gas Reserves by Pool - Truncateed Data | | |
| Variable | Ln Rec Gas Res | | |
| Performed by | Robert Trevail | **Date** | 3 March 2005 |





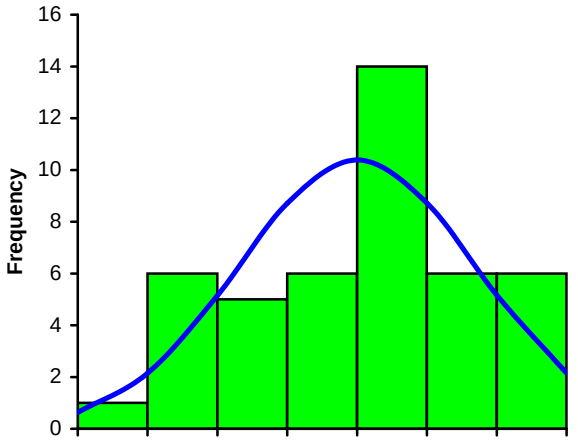

| | |
|---|---|
| **n** | 28 |
| **Mean** | 9.289 |
| **95% CI** | 8.545 to 10.033 |
| **Variance** | 3.3946 |
| **SD** | 1.8425 |
| **SE** | 0.3613 |
| **CV** | 20% |
| **Median** | 9.592 |
| **97.1% CI** | 8.213 to 10.348 |
| **Range** | 6.947594304 |
| **IQR** | 2.369880236 |

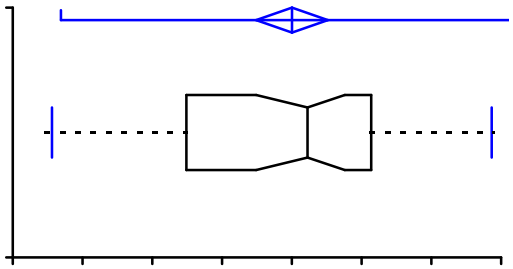
| **Percentile** | |
|---|---|
| **2.5th** | - |
| **25th** | 8.016 |
| **50th** | 9.592 |
| **75th** | 10.386 |
| **97.5th** | - |

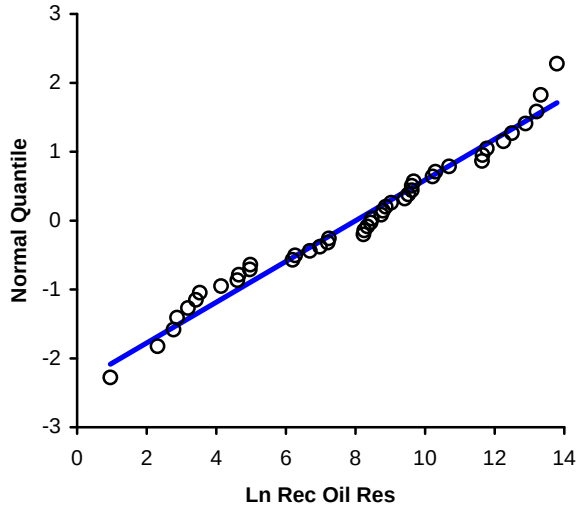
| | **Coefficient** | **p** |
|---|---|---|
| **Shapiro-Wilk** | 0.9788 | 0.8481 |
| **Skewness** | -0.0107 | 0.9801 |
| **Kurtosis** | -0.5828 | 0.5299 |

*Appendix A - Figure 6. Continuous summary statistics - recoverable gas reserves by pool, truncated data*

| | | | |
|---|---|---|---|
| Test | Continuous summary descriptives<br>Recoverable Oil Reserves by Pool | | |
| Variable | Ln Rec Oil Res | | |
| Performed by | Robert Trevail | **Date** | 4 March 2005 |





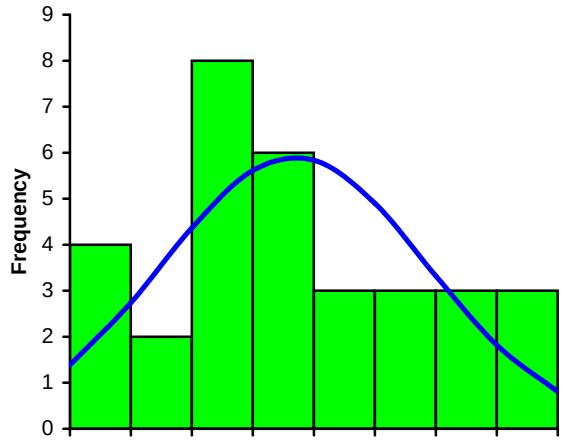

| | |
|---|---|
| **n** | 44 |
| **Mean** | 8.004 |
| **95% CI** | 6.976 to 9.032 |
| **Variance** | 11.4260 |
| **SD** | 3.3802 |
| **SE** | 0.5096 |
| **CV** | 42% |
| **Median** | 8.452 |
| **95.1% CI** | 6.978 to 9.519 |
| **Range** | 12.8314556 |
| **IQR** | 5.300532527 |

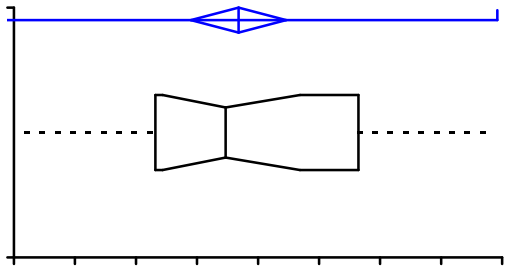
| **Percentile** | |
|---|---|
| **2.5th** | 1.125 |
| **25th** | 4.977 |
| **50th** | 8.452 |
| **75th** | 10.277 |
| **97.5th** | 13.729 |

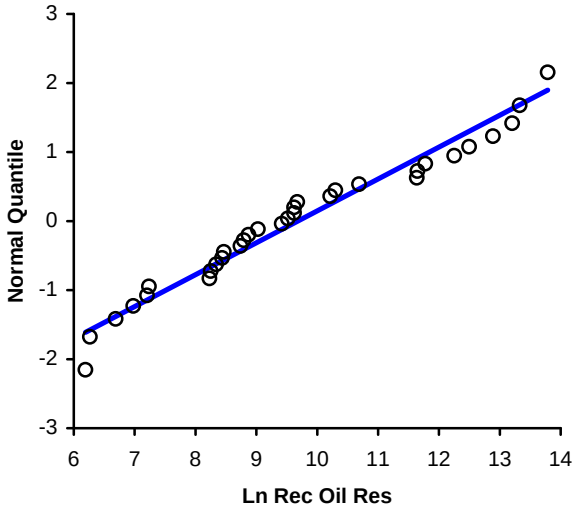
| | **Coefficient** | **p** |
|---|---|---|
| **Shapiro-Wilk** | 0.9675 | 0.2463 |
| **Skewness** | -0.2103 | 0.5379 |
| **Kurtosis** | -0.8327 | 0.1087 |

*Appendix A - Figure 7. Continuous summary statistics - recoverable oil reserves by well*

| | | | |
|---|---|---|---|
| Test | Continuous summary descriptives<br>Recoverable Oil Reserves by Pool - Truncated Data | | |
| Variable | Ln Rec Oil Res | | |
| Performed by | Robert Trevail | **Date** | 4 March 2005 |






| | |
|---|---|
| **n** | 32 |
| **Mean** | 9.681 |
| **95% CI** | 8.900 to 10.461 |
| **Variance** | 4.6838 |
| **SD** | 2.1642 |
| **SE** | 0.3826 |
| **CV** | 22% |
| **Median** | 9.468 |
| **98.0% CI** | 8.437 to 10.688 |
| **Range** | 7.594604551 |
| **IQR** | 3.327853341 |

| **Percentile** | |
|---|---|
| **2.5th** | - |
| **25th** | 8.318 |
| **50th** | 9.468 |
| **75th** | 11.646 |
| **97.5th** | - |

| | **Coefficient** | **p** |
|---|---|---|
| **Shapiro-Wilk** | 0.9560 | 0.2135 |
| **Skewness** | 0.2929 | 0.4584 |
| **Kurtosis** | -0.8381 | 0.1906 |

*Appendix A - Figure 8. Continuous summary statistics - recoverable oil reserves by pool, truncated data*

# Ordovician Pool Production & Reserve Summary

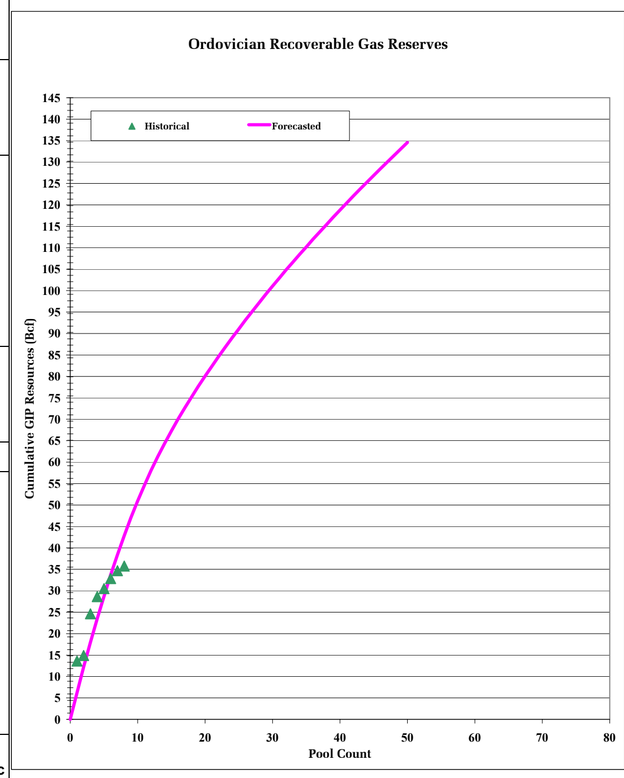
Exhibit 1

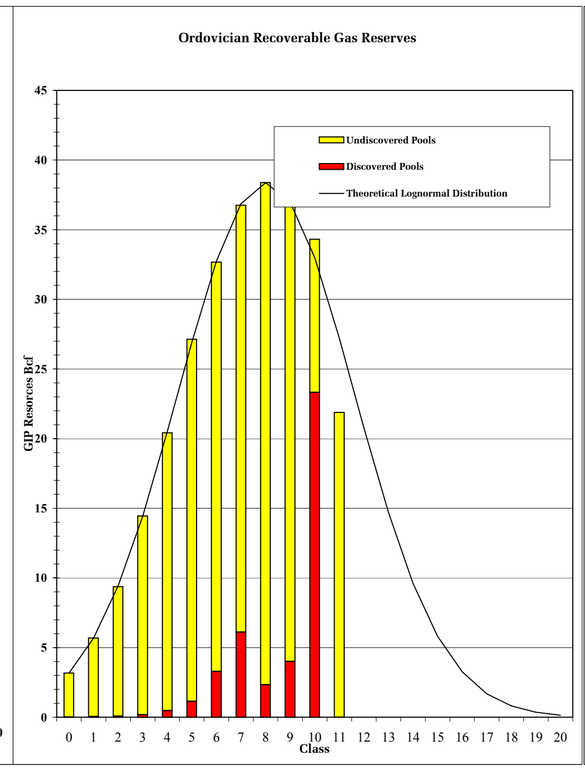
| POOLNAME | DISCOVERY YEAR | CUMULATIVE OIL PRODUCTION m³ | CUMULATIVE GAS PRODUCTION 10³m³ | RECOVERABLE OIL RESERVES m³ | REMAINING RECOVERABLE OIL RESERVES m³ | RECOVERABLE GAS RESERVES 10³m³ | REMAINING RECOVERABLE GAS RESERVES 10³m³ | CALCULATION METHOD | GAS WELLS | OIL WELLS | OIL & GAS WELLS | TOTAL WELLS | OIL RECOVERY FACTOR | GAS RECOVERY FACTOR | GOR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acton | 1954 | 0.0 | 14,261 | 0.0 | 0.0 | 17,400 | 3,139 | abandoned | 15 | 2 | 0 | 17 | | 87.00 | 0.0000 |
| Aldborough 4-A-VIII | 1980 | 1,387.6 | 0 | 1,387.6 | 0.0 | 0 | 0 | abandoned | 0 | 1 | 0 | 1 | 6.7 | | 0.0000 |
| Aldborough 7-18-IV | 1974 | 0.0 | 719 | 0.0 | 0.0 | 719 | 0 | production | 1 | 0 | 0 | 1 | | 102.71 | 0.0000 |
| Anderdon 8-2-IV | 1995 | 104.5 | 0 | 104.5 | 0.0 | 0 | 0 | abandoned | 0 | 1 | 0 | 1 | | | 0.0000 |
| Arthur | 1968 | 0.0 | 32,375 | 0.0 | 0.0 | 36,356 | 3,981 | decline | 3 | 0 | 0 | 3 | | 68.80 | 0.0000 |
| Blandford 7-1-XIII | 1994 | 0.0 | 10,916 | 0.0 | 0.0 | 21,003 | 10,087 | decline | 2 | 0 | 0 | 2 | | 95.00 | 0.0000 |
| Blenheim 3-10-VI | 1999 | 0.0 | 700 | 0.0 | 0.0 | 1,214 | 514 | decline | 2 | 0 | 0 | 2 | | | 0.0000 |
| Blenheim 8-13-X | 1997 | 0.0 | 15,893 | 0.0 | 0.0 | 31,192 | 15,299 | decline | 3 | 0 | 0 | 3 | | 95.00 | 0.0000 |
| Colchester | 1959 | 128,084.1 | 0 | 130,151.0 | 2,066.9 | 0 | 0 | decline | 0 | 15 | 0 | 15 | 33.3 | | 0.0000 |
| Colchester South 5-15-V | 1989 | 5,382.0 | 0 | 6,588.0 | 1,206.0 | 0 | 0 | decline | 0 | 1 | 0 | 1 | 19.3 | | 0.0000 |
| Colchester South 8-5-III | 1995 | 100.3 | 0 | 100.3 | 0.0 | 0 | 0 | abandoned | 0 | 1 | 0 | 1 | | | 0.0000 |
| Dover | 1917 | 43,820.2 | 385,038 | 43,820.2 | 0.0 | 385,038 | 0 | production | 29 | 2 | 7 | 38 | 16.5 | 96.77 | 49.3135 |
| Dover 1-11-V E | 1984 | 10.1 | 0 | 10.1 | 0.0 | 0 | 0 | abandoned | 0 | 1 | 0 | 1 | | | 0.0000 |
| Dover 7-10-VI E | 1978 | 0.0 | 801 | 0.0 | 0.0 | 2,838 | 2,037 | abandoned | 4 | 0 | 0 | 4 | | 95.02 | 0.0000 |
| Dover 7-5-V E | 1983 | 196,958.0 | 244,339 | 209,518.0 | 12,560.0 | 275,515 | 31,176 | decline | 11 | 2 | 10 | 23 | 13.6 | 92.63 | 6.9623 |
| Egremont | 1966 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0 | production | 3 | 0 | 0 | 3 | | | 0.0000 |
| Goldsmith-Lakeshore | 1985 | 862,414.0 | 92,799 | 971,860.0 | 109,446.0 | 113,460 | 20,661 | decline | 0 | 46 | 0 | 46 | 20.3 | 195.53 | 0.6039 |
| Gosfield North 5-13-IX | 1988 | 2.6 | 0 | 2.6 | 0.0 | 0 | 0 | abandoned | 0 | 1 | 0 | 1 | 15.3 | | 0.0000 |
| Gosfield South | 1961 | 27,765.3 | 107 | 29,664.0 | 1,898.7 | 107 | 0 | decline | 0 | 7 | 0 | 7 | 16.7 | | 0.0216 |
| Gosfield South 2-24-V | 1997 | 8,471.0 | 0 | 13,611.0 | 5,140.0 | 0 | 0 | decline | 0 | 2 | 0 | 2 | 21.7 | | 0.0000 |
| Gosfield South 3-K-III | 1997 | 2,805.0 | 0 | 3,833.0 | 1,028.0 | 0 | 0 | decline | 0 | 1 | 0 | 1 | | | 0.0000 |
| Gosfield South 4-258-STR | 1991 | 3,578.0 | 0 | 4,614.0 | 1,036.0 | 0 | 0 | decline | 0 | 1 | 0 | 1 | 22.1 | | 0.0000 |
| Gosfield South 4-4-III | 1995 | 5,853.0 | 437 | 6,248.0 | 395.0 | 437 | 0 | decline | 0 | 1 | 0 | 1 | | | 0.4190 |
| Gosfield South 5-10-V | 1992 | 62.7 | 0 | 62.7 | 0.0 | 0 | 0 | incomplete | 0 | 1 | 0 | 1 | | | 0.0000 |
| Gosfield South 8-7-V | 1987 | 24.2 | 0 | 24.2 | 0.0 | 0 | 0 | abandoned | 0 | 1 | 0 | 1 | 16.1 | | 0.0000 |
| Hepworth | 1900 | 0.0 | 708 | 0.0 | 0.0 | 708 | 0 | abandoned | 8 | 0 | 0 | 8 | | 95.06 | 0.0000 |
| Hillman | 1983 | 370,201.4 | 16,147 | 395,252.0 | 25,050.6 | 20,459 | 4,312 | decline | 0 | 24 | 0 | 24 | 10.9 | | 0.2448 |
| Hornby | 1959 | 34.0 | 1,075 | 34.0 | 0.0 | 2,200 | 1,126 | decline | 5 | 0 | 0 | 5 | | 84.62 | 177.3633 |
| Maidstone 7-17-V | 1987 | 16 | 0 | 16.0 | 0.0 | 0 | 0 | abandoned | 0 | 1 | 0 | 1 | | | 0.0000 |
| Malden | 1961 | 27,317 | 0 | 27,316.0 | -0.5 | 0 | 0 | production | 0 | 6 | 0 | 6 | | | 0.0000 |
| Malden 25 | 1960 | 145.5 | 0 | 145.5 | 0.0 | 0 | 0 | abandoned | 0 | 1 | 0 | 1 | | | 0.0000 |
| Malden 3-41-IV | 1977 | 2,658.6 | 0 | 3,752.5 | 1,093.9 | 0 | 0 | decline | 0 | 2 | 0 | 2 | | | 0.0000 |
| Manitoulin Island | 1860 | 17.7 | 0 | 17.7 | 0.0 | 0 | 0 | abandoned | 0 | 1 | 0 | 1 | 16.1 | | 0.0000 |
| Mersea 1-16-I | 1998 | 11,139.0 | 1,824 | 15,893.0 | 4,754.0 | 3,687 | 1,863 | decline | 0 | 3 | 1 | 4 | | 95.00 | 0.9190 |
| Mersea 4-14-I | 1990 | 12,299.0 | 370 | 12,299.0 | 0.0 | 370 | 0 | decline | 0 | 1 | 0 | 1 | 11.0 | | 0.1688 |
| Mersea 4-240-STR | 1993 | 92,714.0 | 10,909 | 114,495.0 | 21,781.0 | 15,647 | 4,738 | decline | 0 | 5 | 0 | 5 | 33.9 | | 0.6604 |
| Mersea 5-10-IX | 1991 | 629.1 | 0 | 1,344.0 | 714.9 | 0 | 0 | decline | 0 | 1 | 0 | 1 | 16.1 | | 0.0000 |
| Mersea 5-20-A | 2000 | 6,904.3 | 539 | 12,234.1 | 5,329.8 | 569 | 30 | | 0 | 1 | 0 | 1 | | | 0.4379 |
| Mersea 6-20-XI | 1991 | 2,032.0 | 0 | 4,187.0 | 2,155.0 | 0 | 0 | decline | 0 | 2 | 0 | 2 | 34.0 | | 0.0000 |
| Mersea 8-23-IX | 1998 | 1,072.8 | 0 | 1,072.8 | 0.0 | 0 | 0 | abandoned | 0 | 1 | 0 | 1 | | | 0.0000 |
| Picton | 1937 | 0.0 | 39 | 0.0 | 0.0 | 39 | 0 | abandoned | 17 | 0 | 0 | 17 | | 94.88 | 0.0000 |
| Raleigh 2-14-XIV | 1988 | 0.0 | 0 | 0.0 | 0.0 | 7,801 | 7,801 | volumetric | 1 | 0 | 0 | 1 | | 99.02 | 0.0000 |
| Renwick-Fargo | 1987 | 515,139.0 | 40,808 | 613,086.0 | 97,947.0 | 53,630 | 12,822 | decline | 0 | 32 | 0 | 32 | 12.8 | | 0.4446 |
| Rochester 1-17-II EBR | 1992 | 243,435.0 | 41,134 | 267,109.0 | 23,674.0 | 52,152 | 11,018 | decline | 0 | 9 | 0 | 9 | 18.5 | | 0.9483 |
| Rochester 1-20-V EBR | 1984 | 6,240.0 | 0 | 7,114.0 | 874.0 | 0 | 0 | decline | 0 | 2 | 0 | 2 | 12.2 | | 0.0000 |
| Rochester 4-8-I EBR | 1994 | 13,263.0 | 3,246 | 15,062.0 | 1,799.0 | 3,966 | 720 | decline | 0 | 1 | 0 | 1 | 11.9 | | 1.3735 |
| Rochester 7-17-IV EBR | 1994 | 95,250.0 | 11,795 | 113,230.0 | 17,980.0 | 18,623 | 6,828 | decline | 0 | 10 | 0 | 10 | 22.8 | | 0.6950 |
| Rochester 8-8-I EBR | 1994 | 6,370.0 | 720 | 8,327.0 | 1,957.0 | 988 | 268 | decline | 0 | 2 | 0 | 2 | 3.9 | | 0.6344 |
| Ruscom River | 1970 | 803.0 | 0 | 803.0 | 0.0 | 0 | 0 | abandoned | 0 | 2 | 0 | 2 | 16.1 | | 0.0000 |
| Sombra 3-26-VI | 1985 | 0.0 | 11,317 | 0.0 | 0.0 | 13,706 | 2,389 | decline | 1 | 0 | 0 | 1 | | 95.00 | 0.0000 |
| Sombra 7-6-VI | 1991 | 0.0 | 7,997 | 0.0 | 0.0 | 10,699 | 2,702 | decline | 1 | 0 | 0 | 1 | | 95.00 | 0.0000 |
| Stevenson | 1957 | 525.6 | 0 | 525.6 | 0.0 | 0 | 0 | abandoned | 0 | 1 | 0 | 1 | 16.1 | | 0.0000 |
| Tilbury East 1-24-IX | 1987 | 143.4 | 0 | 143.4 | 0.0 | 0 | 0 | abandoned | 0 | 1 | 0 | 1 | | | 0.0000 |
| Tilbury North 1-11-IV | 1993 | 3,983.0 | 5,135 | 4,754.0 | 771.0 | 5,984 | 849 | decline | 0 | 0 | 1 | 1 | | | 7.2355 |
| Tilbury West 2-4-IX | 2000 | 30.5 | 0 | 30.5 | 0.0 | 0 | 0 | abandoned | 0 | 1 | 0 | 1 | | | 0.0000 |
| Tilbury West 3-2-X | 2001 | 325.3 | 0 | 489.0 | 163.7 | 0 | 0 | decline | 0 | 1 | 0 | 1 | | | 0.0000 |
| Wigle-Olinda | 1990 | 398,444.0 | 41,885 | 542,545.0 | 144,101.0 | 66,094 | 24,209 | decline | 0 | 53 | 0 | 53 | 31.2 | | 0.5900 |
| **Total** | | **3,097,954.3** | **994,033.1** | **3,582,876.3** | **484,922.0** | **1,162,601.2** | **168,568.1** | | **106** | **251** | **19** | **376** | | | |

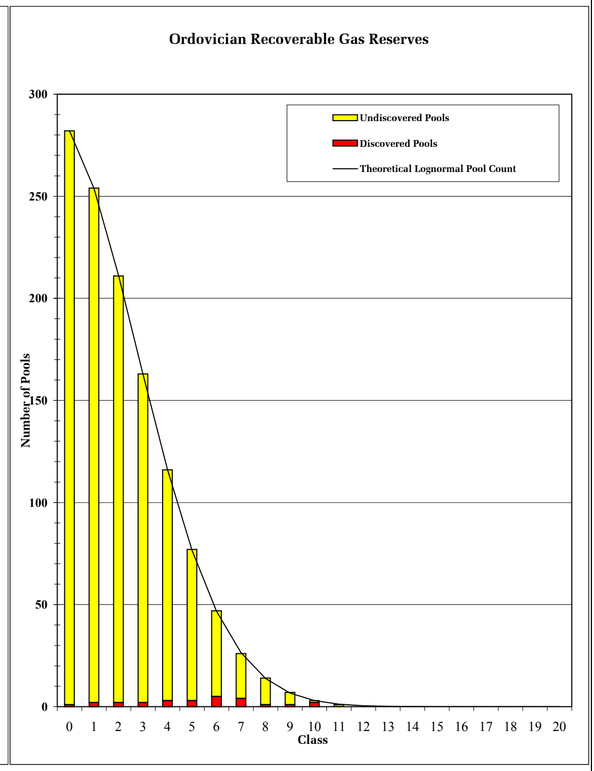
# TDPM Analysis - Ordovician Recoverable Gas Reserves

**Exhibit 2**

| Play | MSTR200 | OnOrdGas | | | | | | | | | | | | | | | | | | | | | All Gas Volumes in Bcf | Case RGR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distribution to Use | Lognormal | Lognormal or Non-Parametric | | | | | | | | | | | | | | | | | | | | | | |
| Weighting Method | V-Beta | Area or V-Beta | | | | | | | | | | | | | | | | | | | | | | |
| Left Class | 7 | Must be between 0 and 20 | | | | | | | | | | | | | | | | | | | | | | |
| Right Class | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| $N_{l,r}$ | 50 | Solver Lognormal | | | | | | | | | | | | | | | | | | | | | | |
| $\mu$ | -0.36 | | | | | | | | | | | | | | | | | | | | | | | |
| $\sigma$ | 3.58 | | | | | | | | | | | | | | | | | | | | | | | |
| $\beta_{ln}$ | 1.56 | | | | | | | | | | | | | | | | | | | | | | | |
| $\beta_{np}$ | 1.19 | Solver Non-Parametric | | | | | | | | | | | | | | | | | | | | | | |
| $\lambda$ | 14858.81 | | | | | | | | | | | | | | | | | | | | | | | |
| | Calculated Values | | | | | | | | | | | | | | | | | | | | | | | |
| N | 2,614 | Lognormal | | | | | | | | | | | | | | | | | | | | | | |
| $N_{0,r}$ | 1,200 | | | | | | | | | | | | | | | | | | | | | | | |
| $\mu_R$ | 8.52 | | | | | | | | | | | | | | | | | | | | | | | |
| R | 346 | | | | | | | | | | | | | | | | | | | | | | | |
| $R_{0,r}$ | 258 | | | | | | | | | | | | | | | | | | | | | | | |
| $R_{l,r}$ | 145 | | | | | | | | | | | | | | | | | | | | | | | |
| $R_{l,r\ (ck)}$ | 145 | | | | | | | | | | | | | | | | | | | | | | | |
| $R(\beta)$ | 21,000 | | | | | | | | | | | | | | | | | | | | | | | |
| $\mu_R(\beta)$ | 13.50 | | | | | | | | | | | | | | | | | | | | | | | |
| $N_{\lambda,l,r}$ | 25 | Non-Parametric | | | | | | | | | | | | | | | | | | | | | | |
| $R_{\lambda,l,r}$ | 50 | | | | | | | | | | | | | | | | | | | | | | | |
| Error1 | 200 | Solver for both (Error 1 is to be minimized) | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | Average error per point (Bcf) | | | | | | | | | | | | | | | | | | | | | | |




| | | Size Class | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Input Data from Summary by classes worksheet | | Average Area per class in square miles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | Number of Discovered. Pools per Class | 1 | 2 | 2 | 2 | 3 | 3 | 5 | 4 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 26 |
| | | Discovered RGR Bcf | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 6 | 2 | 4 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 41 |
| | | Initial Marketable Bcf | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | | Remaining Marketable Bcf | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | | $Volume_{HISTORICAL\ PER\ POOL}$ | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 4 | 12 | 22 | 44 | 87 | 173 | 344 | 685 | 1363 | 2714 | 5403 | 10755 | | |
| | | % of RGR that is Initial Marketable Bcf | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | | | | | | | | | | | | 0% |
| | | Size Class | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | |
| Model Calculations and Projections | | Distribution Used (Lognormal) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0.060 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0 | 0 | 0 | 0 | | 1 |
| | | wi (V-Beta Weighting Method) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 64 | 187 | 549 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | $Volume^{\beta}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 64 | 187 | 549 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | Discovered Sample Pool Count | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 8 |
| | | Model Pool Count | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 14 | 7 | 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | | 50 |
| | | Non-Parametric Distribution | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | | Lognormal Distribution | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | 1 |
| | | Non-Parametric Pool Count | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 8 |
| | | Lognormal Model Pool Count | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 14 | 7 | 3 | 0 | 0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | | 50 |
| | | Lognormal Model Resource | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 38 | 37 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 145 |
| | | Lognormal Resource per Pool | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 6 | 11.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | $E(Volume^{\beta})$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 64 | 187 | 549 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | Proj Lognormal Pool Count | 282.14 | 253.88 | 211.41 | 162.91 | 116.18 | 76.67 | 46.82 | 26.46 | 13.84 | 6.70 | 3.00 | 1.24 | 0.48 | 0.17 | 0.06 | 0.02 | 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | | 1.97 |
| | | Proj Lognormal Bcf | 3.2 | 6 | 9 | 14 | 20 | 27 | 33 | 37 | 38 | 37 | 33 | 27 | 21 | 15 | 10 | 6 | 3 | 2 | 1 | 0 | 0 | | 342 |
| | | Proj Lognormal Resources per Pool (Vi) | 0.01 | 0.02 | 0.04 | 0.09 | 0.18 | 0.35 | 0.70 | 1.39 | 2.77 | 5.52 | 11.0 | 21.9 | 43.6 | 86.8 | 172.8 | 344 | 685 | 1363 | 2714 | 5403 | 10755 | | |
| | | Size at start of Class | 0.008 | 0.016 | 0.03 | 0.06 | 0.13 | 0.25 | 0.50 | 1.0 | 2.0 | 4.0 | 8 | 16 | 32 | 64 | 128 | 256 | 512 | 1024 | 2048 | 4096 | 8192 | 16384 | |
| | | Size Class | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | |
| Results | | Total Pool Count in Classes 0-20 | 282 | 254 | 211 | 163 | 116 | 77 | 47 | 26 | 14 | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1201 | |
| | | Undiscovered Pools in Classes 0-20 | 281 | 252 | 209 | 161 | 113 | 74 | 42 | 22 | 13 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1175 | |
| | | Total RGR in Classes 0-20 Disc +Undisc | 3 | 6 | 9 | 14 | 20 | 27 | 33 | 37 | 38 | 37 | 34 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 281 | |
| | | Undiscovered RGR in Classes 0-20 | 3 | 6 | 9 | 14 | 20 | 26 | 29 | 31 | 36 | 33 | 11 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 240 | |
| | | Undiscovered Nominal Marketable in Classes 0-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | Remaining Reserves and Undisc Nom Mktb in Classes 0-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | % Undiscovered | 100% | 99% | 99% | 99% | 98% | 96% | 90% | 83% | 94% | 89% | 32% | 100% | | | | | | | | | | | 85% |
| | | Cumulative Undiscovered RGR | 240 | 237 | 232 | 222 | 208 | 188 | 162 | 133 | 102 | 66 | 33 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | Cumulative % Undiscovered | 100% | 99% | 96% | 92% | 87% | 78% | 67% | 55% | 42% | 27% | 14% | 9% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | | |
| | | Number of Undiscovered Outliers | | | | | | | | | | | | | | | | | | *Undisc $P_{90}$ 202 | | **Undisc $P_{10}$ 279 | | | |
| | | Undiscovered Outlier RGR | | | | | | | | | | | | | | | | | | | | | | | |

NOTES: The constraints used in this analysis include $N_{l,r}$ >= 50, $N_{0,r}$ <= 1200, one additional Class 10 discovery ($M$47 = 3), and no pools larger in size than Class 11 ($O$47 <= 0.49).

| Lower Confidence Limit | Upper Confidence Limit | Class Size Data (Starting from Class 0) | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.05 | 0.95 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | |
| Probability of Success | $p_i$ | 0.108 | 0.097 | 0.081 | 0.062 | 0.044 | 0.029 | 0.018 | 0.010 | 0.005 | 0.003 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | | |
| Probability of Failure | $q_i$ | 0.892 | 0.903 | 0.919 | 0.938 | 0.956 | 0.971 | 0.982 | 0.990 | 0.995 | 0.997 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| Mean | $Np_i$ | 282.136 | 253.876 | 211.407 | 162.912 | 116.177 | 76.670 | 46.823 | 26.462 | 13.840 | 6.698 | 3.000 | 1.243 | 0.477 | 0.169 | 0.056 | 0.017 | 0.005 | 0.001 | 0.000 | 0.000 | 0.000 | | |
| Variance | $Np_iq_i$ | 251.687 | 229.221 | 194.311 | 152.760 | 111.014 | 74.421 | 45.984 | 26.194 | 13.766 | 6.681 | 2.997 | 1.243 | 0.477 | 0.169 | 0.056 | 0.017 | 0.005 | 0.001 | 0.000 | 0.000 | 0.000 | | |
| Standard Deviation | $(Np_iq_i)^{0.5}$ | 15.865 | 15.140 | 13.940 | 12.360 | 10.536 | 8.627 | 6.781 | 5.118 | 3.710 | 2.585 | 1.731 | 1.115 | 0.691 | 0.411 | 0.236 | 0.130 | 0.069 | 0.035 | 0.017 | 0.008 | 0.004 | | |
| Lower Pool Count | N(lower) | 256 | 229 | 189 | 143 | 99 | 63 | 36 | 18 | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Upper Pool Count | N(upper) | 308 | 279 | 234 | 183 | 134 | 91 | 58 | 35 | 20 | 11 | 6 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Lower Confidence Limit | | | | 0.056 | 0.056 | 0.054 | 0.060 | 0.060 | 0.054 | 0.067 | 0.099 | 0.199 | 0.288 | 0.621 | 0.844 | 0.946 | 0.983 | 0.995 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 | |
| Upper Confidence Limit | | | | | 0.950 | 0.957 | 0.954 | 0.954 | 0.956 | 0.957 | 0.959 | 0.967 | 0.962 | 0.987 | 0.987 | 0.999 | 0.983 | 0.995 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 | |

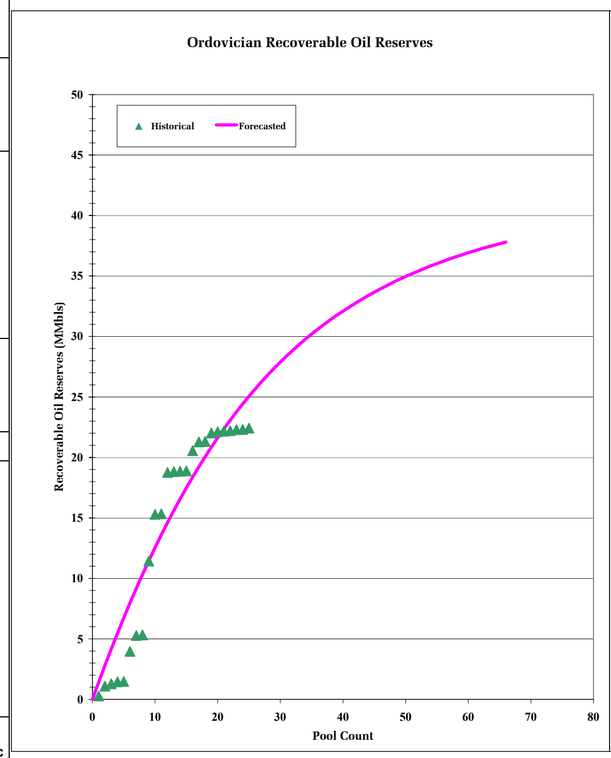
| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean of Class Bcf | 0.01 | 0.02 | 0.04 | 0.09 | 0.18 | 0.35 | 0.70 | 1.39 | 2.77 | 5.52 | 10.99 | 21.89 | 43.58 | 86.78 | 172.77 | 343.98 | 684.81 | 1363.30 | 2713.94 | 5402.55 | 10754.54 | |
| Undiscovered Pool (Count) Probability | 0.24 | 0.21 | 0.18 | 0.14 | 0.10 | 0.06 | 0.04 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Undiscovered Pool (Count) Cum. Distribution | 0.24 | 0.45 | 0.6315 | 0.77 | 0.86 | 0.93 | 0.96 | 0.98 | 0.99 | 0.998 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | |
| Undiscovered Pool Mean | 0.20 | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation Bcf | 0.88 | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.01 | 0.02 | | | | | | | | | | | | | | | | | | |
| Undiscovered Pool P90 Bcf | Not Calculated | | 0.24 | 0.45 | | | | | | | | | | | | | | | | | | |
| | | | 0.2 | 0.35 | | | | | | | | | | | | | | | | | | |
| Undiscovered Pool P10 Bcf | 0.25 | | 0.86 | 0.93 | | | | | | | | | | | | | | | | | | |
| Mean Undiscovered R | 240.37 | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation of R | 26.50 | | | | | | | | | | | | | | | | | | | | | |
| P90 - Undiscovered R* | 201.68 | *Industry usage treats this as the $P_{90}$ value | | | | | | | | | | | | | | | | | | | | |
| P10 - Undiscovered R* | 279.06 | **Industry usage treats this as the $P_{10}$ value | | | | | | | | | | | | | | | | | | | | |
| | 1.28 | | | | | | | | | | | | | | | | | | | | | |

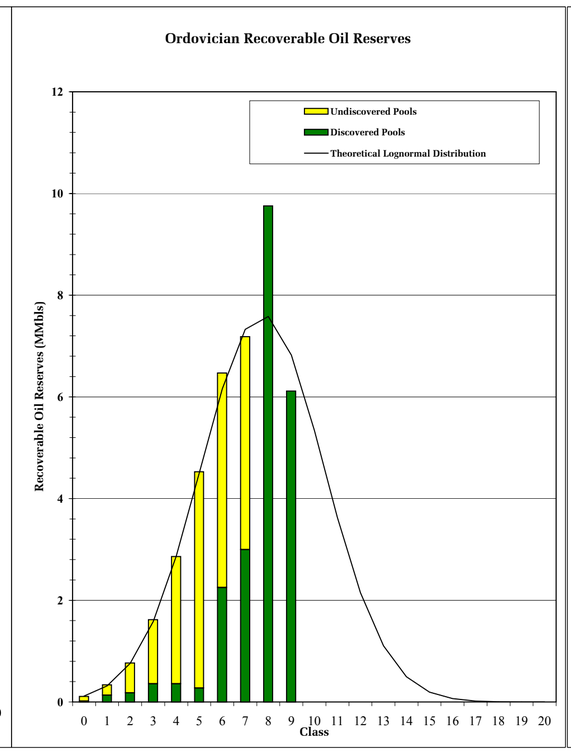
* Central Limit Theorem approximation to P10 and P90 Resources based on random sampling from the undiscovered pool distribution. It does not take into account the fluctuation of R within a class size. This fluctuation will widen the P10 and P90 band.

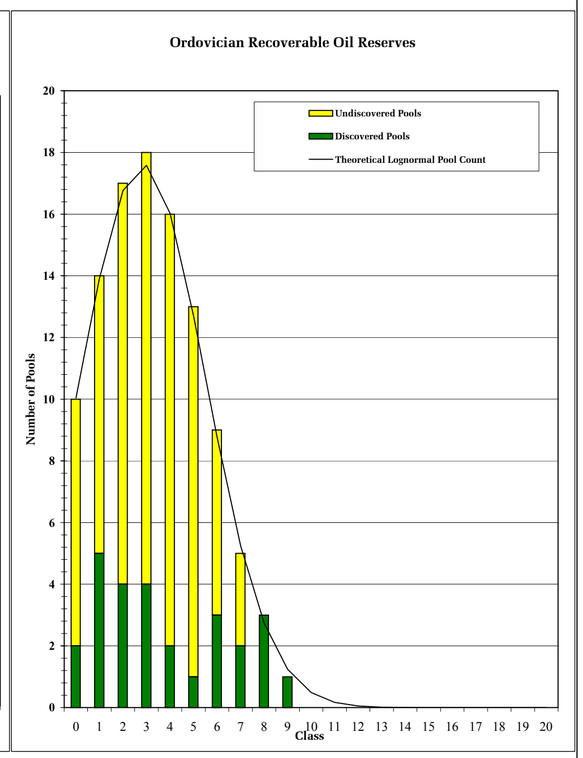
# TDPM Analysis - Ordovician Recoverable Oil Reserves

**Exhibit 3**

| Play | MSTR200 | OnOrdOil | | | | | | | | | | | | | | | | | | | | | | All Oil Volumes in MMbls | Case ROR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distribution to Use | Lognormal | Lognormal or Non-Parametric | | | | | | | | | | | | | | | | | | | | | | | |
| Weighting Method | V-Beta | Area or V-Beta | | | | | | | | | | | | | | | | | | | | | | | |
| Left Class | 1 | Must be between 0 and 20 | | | | | | | | | | | | | | | | | | | | | | | |
| Right Class | 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| $N_{l,r}$ | 95 | Solver Lognormal | | | | | | | | | | | | | | | | | | | | | | | |
| $\mu$ | 3.34 | | | | | | | | | | | | | | | | | | | | | | | | |
| $\sigma$ | 2.66 | | | | | | | | | | | | | | | | | | | | | | | | |
| $\beta_{ln}$ | 0.65 | | | | | | | | | | | | | | | | | | | | | | | | |
| $\beta_{np}$ | 0.21 | Solver Non-Parametric | | | | | | | | | | | | | | | | | | | | | | | |
| $\lambda$ | 38892.41 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Calculated Values | | | | | | | | | | | | | | | | | | | | | | | | |
| N | 118 | Lognormal | | | | | | | | | | | | | | | | | | | | | | | |
| $N_{0,r}$ | 105 | | | | | | | | | | | | | | | | | | | | | | | | |
| $\mu_R$ | 8.24 | | | | | | | | | | | | | | | | | | | | | | | | |
| R | 51 | | | | | | | | | | | | | | | | | | | | | | | | |
| $R_{0,r}$ | 38 | | | | | | | | | | | | | | | | | | | | | | | | |
| $R_{l,r}$ | 38 | | | | | | | | | | | | | | | | | | | | | | | | |
| $R_{l,r\ (ck)}$ | 38 | | | | | | | | | | | | | | | | | | | | | | | | |
| $R(\beta)$ | 46 | | | | | | | | | | | | | | | | | | | | | | | | |
| $\mu_R(\beta)$ | 6.55 | | | | | | | | | | | | | | | | | | | | | | | | |
| $N_{\lambda,l,r}$ | 25 | Non-Parametric | | | | | | | | | | | | | | | | | | | | | | | |
| $R_{\lambda,l,r}$ | 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| Error1 | 184 | Solver for both (Error 1 is to be minimized) | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | Average error per point (MMbls) | | | | | | | | | | | | | | | | | | | | | | | Totals |
| | Size Class | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | | |
| Input Data from Summary by classes worksheet | Average Area per class in square miles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Number of Discovered. Pools per Class | 2 | 5 | 4 | 4 | 2 | 1 | 3 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | | |
| | Discovered ROR MMbls | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | | |
| | Initial Marketable MMbls | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Remaining Marketable MMbls | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | $Volume_{HISTORICAL\ PER\ POOL}$ | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 6 | 11 | 22 | 43 | 85 | 169 | 335 | 665 | 1320 | 2620 | 5201 | 10327 | | | |
| | % of ROR that is Initial Marketable MMbls | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | | | | | | | | | | | | 0% | | |
| | Size Class | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | | |
| Model Calculations and Projections | Distribution Used (Lognormal) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| | wi (V-Beta Weighting Method) | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | $Volume^{\beta}$ | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Discovered Sample Pool Count | 0 | 5 | 4 | 4 | 2 | 1 | 3 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | | |
| | Model Pool Count | 0 | 14 | 17 | 18 | 16 | 13 | 9 | 5 | 3 | 1 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 95 | | |
| | Non-Parametric Distribution | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| | Lognormal Distribution | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| | Non-Parametric Pool Count | 0 | 5 | 4 | 4 | 2 | 1 | 3 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | | |
| | Lognormal Model Pool Count | 0 | 14 | 17 | 18 | 16 | 13 | 9 | 5 | 3 | 1 | 0 | 0 | 0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 95 | | |
| | Lognormal Model Resource | 0 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | | |
| | Lognormal Resource per Pool | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 5 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | $E(Volume^{\beta})$ | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Proj Lognormal Pool Count | 10.04 | 13.91 | 16.77 | 17.58 | 16.03 | 12.71 | 8.76 | 5.25 | 2.74 | 1.24 | 0.49 | 0.17 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | 0.72 | | |
| | Proj Lognormal MMbls | 0.1 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 7 | 5 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | | |
| | Proj Lognormal Resources per Pool (Vi) | 0.01 | 0.02 | 0.05 | 0.09 | 0.18 | 0.35 | 0.70 | 1.39 | 2.77 | 5.49 | 10.9 | 21.6 | 42.9 | 85.1 | 168.9 | 335 | 665 | 1320 | 2620 | 5201 | 10327 | | | |
| | Size at start of Class | 0.008 | 0.016 | 0.03 | 0.06 | 0.13 | 0.25 | 0.50 | 1.0 | 2.0 | 4.0 | 8 | 16 | 32 | 64 | 128 | 256 | 512 | 1024 | 2048 | 4096 | 8192 | 16384 | | |
| | **Size Class** | **0** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** | | |
| Results | **Total Pool Count in Classes 0-20** | 10 | 14 | 17 | 18 | 16 | 13 | 9 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 106 | | |
| | **Undiscovered Pools in Classes 0-20** | 8 | 9 | 13 | 14 | 14 | 12 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 | | |
| | **Total ROR in Classes 0-20 Disc +Undisc** | 0 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | | |
| | **Undiscovered ROR in Classes 0-20** | 0 | 0 | 1 | 1 | 3 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | | |
| | **Undiscovered Nominal Marketable in Classes 0-20** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | **Remaining Reserves and Undisc Nom Mktb in Classes 0-20** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | **% Undiscovered** | 84% | 61% | 77% | 78% | 87% | 94% | 65% | 58% | | | | | | | | | | | | | | 44% | | |
| | **Cumulative Undiscovered ROR** | 17 | 17 | 17 | 16 | 15 | 13 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | **Cumulative % Undiscovered** | 100% | 99% | 98% | 95% | 88% | 73% | 49% | 24% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | | | |
| | **Number of Undiscovered Outliers** | | | | | | | | | | | | | | | | | | | | | | | | |
| | **Undiscovered Outlier ROR** | | | | | | | | | | | | | | | | | | | | | | | | |




***Undisc $P_{90}$ 14** ****Undisc $P_{10}$ 21**

**NOTES: The constraints used in this analysis include NI,r >= 95 and no new pools larger in size than Class 9 ($M$47 <= 0.49).**

| Lower Confidence Limit | Upper Confidence Limit | Class Size Data (Starting from Class 0) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.05 | 0.95 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| **Probability of Success** | $p_i$ | 0.085 | 0.118 | 0.142 | 0.149 | 0.136 | 0.108 | 0.074 | 0.044 | 0.023 | 0.011 | 0.004 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| **Probability of Failure** | $q_i$ | 0.915 | 0.882 | 0.858 | 0.851 | 0.864 | 0.892 | 0.926 | 0.956 | 0.977 | 0.989 | 0.996 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | |
| **Mean** | $Np_i$ | 10.038 | 13.913 | 16.771 | 17.581 | 16.028 | 12.708 | 8.762 | 5.254 | 2.740 | 1.243 | 0.490 | 0.168 | 0.050 | 0.013 | 0.003 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| **Variance** | $Np_iq_i$ | 9.185 | 12.275 | 14.390 | 14.965 | 13.854 | 11.341 | 8.112 | 5.021 | 2.676 | 1.229 | 0.488 | 0.168 | 0.050 | 0.013 | 0.003 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| **Standard Deviation** | $(Np_iq_i)^{0.5}$ | 3.031 | 3.504 | 3.793 | 3.868 | 3.722 | 3.368 | 2.848 | 2.241 | 1.636 | 1.109 | 0.699 | 0.410 | 0.224 | 0.114 | 0.054 | 0.024 | 0.010 | 0.004 | 0.001 | 0.000 | 0.000 | |
| **Lower Pool Count** | N(lower) | 5 | 8 | 11 | 11 | 10 | 7 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| **Upper Pool Count** | N(upper) | 15 | 20 | 23 | 24 | 22 | 18 | 14 | 9 | 6 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| **Lower Confidence Limit** | | 0.058 | 0.054 | 0.078 | 0.052 | 0.063 | 0.053 | 0.057 | 0.100 | 0.063 | 0.287 | 0.612 | 0.845 | 0.951 | 0.987 | 0.997 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| **Upper Confidence Limit** | | 0.958 | 0.965 | 0.958 | 0.959 | 0.955 | 0.952 | 0.972 | 0.962 | 0.980 | 0.963 | 0.987 | 0.987 | 0.951 | 0.987 | 0.997 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean of Class MMbls | 0.01 | 0.02 | 0.05 | 0.09 | 0.18 | 0.35 | 0.70 | 1.39 | 2.77 | 5.49 | 10.89 | 21.61 | 42.89 | 85.11 | 168.90 | 335.17 | 665.16 | 1320.14 | 2620.29 | 5201.49 | 10326.84 | |
| Undiscovered Pool (Count) Probability | 0.10 | 0.11 | 0.16 | 0.18 | 0.18 | 0.15 | 0.08 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Undiscovered Pool (Count) Cum. Distribution | 0.10 | 0.22 | 0.3797 | 0.56 | 0.73 | 0.89 | 0.96 | 1.00 | 1.00 | 1.000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | |
| Undiscovered Pool Mean | 0.22 | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation MMbls | 0.30 | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.01 | 0.02 | | | | | | | | | | | | | | | | | | |
| Undiscovered Pool P90 MMbls | Not Calculated | | 0.10 | 0.22 | | | | | | | | | | | | | | | | | | |
| | | | 0.4 | 0.70 | | | | | | | | | | | | | | | | | | |
| Undiscovered Pool P10 MMbls | 0.64 | | 0.89 | 0.96 | | | | | | | | | | | | | | | | | | |
| Mean Undiscovered R | 17.30 | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation of R | 9.03 | | | | | | | | | | | | | | | | | | | | | |
| P90 - Undiscovered R* | 13.89 | *Industry usage treats this as the $P_{90}$ value | | | | | | | | | | | | | | | | | | | | |
| P10 - Undiscovered R* | 20.72 | **Industry usage treats this as the $P_{10}$ value | | | | | | | | | | | | | | | | | | | | |
| 1.28 | | | | | | | | | | | | | | | | | | | | | | |

* Central Limit Theorem approximation to P10 and P90 Resources based on random sampling from the undiscovered pool distribution. It does not take into account the fluctuation of R within a class size. This fluctuation will widen the P10 and P90 band.

# APPENDIX B
# RESERVE REPORT (ENERGY OBJECTIVE LTD.)

# Reserve Report

## Prepared for Golder Associates Ltd.

**March 2004**

***ENERGY OBJECTIVE LTD.***

## Introduction

Energy Objective was retained by Golder Associates Ltd to calculate recoverable reserves and original in-place volumes of oil and natural gas for the pools contained within Table A. This report represents the second part of a three-part study to evaluate hydrocarbon resources in southern Ontario. These volumes are to be used for estimation of potential resources in the Ordovician aged sediment of Southwestern Ontario. The calculation of economic parameters, such as return on investment, payout period, etc., was not required. There were a total of 24 pools with approximately 260 producing wells. For each pool, where available, Energy Objective compiled, interpreted and tabulated data for the following reservoir parameters; formation temperature, initial pressure, initial compressibility factor, oil gravity, oil sulfur content, gas specific gravity, gas heating value, gas critical temperature and pressure, gas sulfur content, recovery factor, typical well decline rate and maximum initial well production rate.

Table A: Ordovician Pools

| **Field** | **Pools** |
|---|---|
| Goldsmith Lakeshore Field | Romney 3-8-II and 7-10-II pools; Mersea 6-23-VII (Goldsmith pool |
| Dover Field | Dover 7-5-V E oil and gas pool |
| Renwick – Fargo Field | Romney Pools 6-13-III, 6-13-IV, 5-15-I; Mersea Pool 6-20-XI |
| Rochester Field | Rochester pools 1-17-II, 4-8-I, 8-8-I, 7-17-IV, 1-20-V |
| Hillman Field | Hillman pool; Mersea Pools 6-16-B, 2-15-B, 7-15-A, 4-240-STR, 1-16-I |
| Wigle – Olinda Field | Gosfield 2-21-VI; Gosfield South 2-24-V; Mersea pools 3-4-IV, 3-6-V |
| Innerkip Field | Blenheim 8-13-X pool |

In addition, Energy Objective tabulated monthly production for each well in the pools, where available, for the time period 1992 to 2002 inclusive, and tabulated volume of annual production for each pool for the time period 1982 to 2002 inclusive. This data is found within the attached Appendix.

In order to complete this portion of the study Energy Objective relied on production data provided by the Ministry of Natural Resources and certain reservoir parameters interpreted through the examination of individual well files related to wells found within the subject pools. This geological review included

the generation of pool structure maps and the interpretation of maximum gas pay thickness, average gas pay thickness, maximum oil pay thickness, average oil pay thickness, oil/gas/water contacts for pools or parts of pools, average porosity, porosity range, average permeability, permeability range.

## Methodology

### *Reserves*

For the purpose of this study the term “reserves” represents those quantities of oil and natural gas, which are anticipated to be commercially recovered from known accumulations from a given date forward. Energy Objective has identified reserves as proved, probable, and possible. It should be noted that all reserve estimates involve some degree of uncertainty. The uncertainty depends chiefly on the amount of reliable geologic and engineering data available at the time of the estimate and the interpretation of these data. The relative degree of uncertainty may be conveyed by placing reserves into one of two principal classifications, either proved or unproved. Unproved reserves are less certain to be recovered than proved reserves and may be further sub-classified as probable and possible reserves to denote progressively increasing uncertainty in their recoverability.

Because of potential differences in uncertainty, caution should be exercised when aggregating reserves of different classifications.

Energy Objective utilized a deterministic methodology in this study. A deterministic methodology involves the formulation of a single best estimate of reserves based on known geological, engineering, and economic data as summarized in Table D. Specific assumptions related to this data are shown as footnotes in Table C.

Reserves estimates will generally be revised, as additional geologic or engineering data becomes available or as economic conditions change. Reserves do not include quantities of petroleum being held in inventory, and may be reduced for usage or processing losses if required for financial reporting.

***Proven Producing and Proven Non-Producing Reserves***

In general, reserves are considered proved if the commercial producibility of the reservoir is supported by actual production or formation tests. In this context, the term proved refers to the actual quantities of petroleum reserves and not just the productivity of the well or reservoir. Proved reserves may be assigned on the basis of well logs and/or core analysis that indicate the subject reservoir is hydrocarbon bearing and is analogous to reservoirs in the same area that are producing or have demonstrated the ability to produce on formation tests.

The area of the reservoir considered as proved includes (1) the area delineated by drilling and defined by fluid contacts, if any, and (2) the un-drilled portions of the reservoir that can reasonably be judged as commercially productive on the basis of available geological and engineering data. In the absence of data on fluid contacts, the lowest known occurrence of hydrocarbons controls the proved limit unless otherwise indicated by definitive geological, engineering or performance data.

Reserves may be classified as proved if facilities to process and transport those reserves to market are operational at the time of the estimate or there is a reasonable expectation that such facilities will be installed.

One of the components of the reserves estimates consisted of estimating future production from existing wells by means of projecting the current well production rate declines into the future. Production records for all wells, past and currently producing, was compiled on an individual well basis. Well production was forecasted on an annual basis to 2017 for each well currently on production. Estimates of future production were determined based primarily on graphical analysis of each well's current production trend. The base data for this trend analysis was MNR monthly production data for the 1992 to 2002 period. Annual production summaries were available for the period 1983 to 1992 but this information was not used extensively in forecasting current trends.

A past and future production profile for the whole pool was generated from the summation of the individual well profiles and projection. This pool projection was of the current producing well group only. The projection did not use economic cut-offs as, in the vast majority of cases, the forecasted production volumes that were potentially uneconomic were far enough in the future to have minimal

impact from an economic perspective. In addition, the possible overestimation of remaining reserves that may be a result of projections below the economic limit were generally of only minimal impact on the ultimate determination of total reserves in a drilling tract.

As a first cut, the pool summary provided base recovery information which, when considering the number of drilling tracts produced, provides a benchmark for determining reserves on a tract basis. Depending on the ranges of resource recoveries obtained or projected from the individual pool wells, this number would possibly reflect initial expectations with respect to future drilling, all other things being equal.

A typical well profile for pools with a sufficient number of wells (6 or more) was also compiled as a cross check and an additional reference point for the pool. Each well's production, either actual or forecast, was tabulated on a production year basis. The MNR supplied annual data from 1983 to 1992 was used at this point. For example, every well's first year production was averaged. This was done for the life of the well and a multi year profile of an average well was generated. In pools where most of the producing wells are relatively new, the average well profile was influenced substantially by the assumptions used in generating the previously mentioned individual well projections. Where substantial production and a majority of the producing wells have been on stream for 5 years or more, the actual production data formed the major input in generating the individual well profiles. In this case, a higher reliance on the average well profile information is warranted in generating the final reserve estimate for the pool.

In summary, the process described above generated the following information:

Individual Wells

- Tabulation of production to date and current rates.
- Estimations of future production volume and reserves.
- Historical decline date data.
- Future decline rate estimates.

Pools (MNR)

- Tabulation of production to date and current rates.
- Tabulation of total pool production, decline rates and reserves from well data.
- Calculation of recovery on a per tract (per well) basis from the above information.
- Creation of an average well production profile as a function of years of years on production.
- Generation of reserves estimate benchmarks from the above such as reserves recovery and production rates and production decline rates.

TGI Pools

- The major parameters such as production to date and remaining recoverable reserves.
- This was obtained from a summation of the MNR pools in each TGI pool.

TGI Fields

- As above, with the TGI pool information combined for the TGI Fields.

The information listed above is detailed in the appendices in sheets showing the numerical and graphical details. For each MNR Pool, the following is provided:

- An information sheet for each well, showing past and forecast production, major reserves parameters, decline rates and graphical presentations of monthly production rates since 1992.
- The graphics are presented in mainly logarithmic formats, which were utilized in forecasting production decline rates.

- An information sheet for each MNR Pool with summary data similar to the above.

- An information sheet tabulating the production profile for the Average Well in the pool, with graphs.

The base information listed above formed the starting point for the next stage evaluation of pool

reserves, which consisted of reviewing the tract and pool recoveries in combination with the pool mapping.

Energy Objective has used the combination of production decline analysis and geological interpretations of reservoir boundaries to prepare its estimates of proven producing and proven non-producing reserves.

Reserves may be classified as proved non-producing provided (1) the locations are direct offsets to wells that have indicated commercial production in the objective formation, (2) it is reasonably certain such locations are within the known proved productive limits of the objective formation, (3) the locations conform to existing well spacing regulations where applicable, and (4) it is reasonably certain the locations will be developed. Reserves from other locations are categorized as proved undeveloped only where interpretations of geological and engineering data from wells indicate with reasonable certainty that the objective formation is laterally continuous and contains commercially recoverable petroleum at locations beyond direct offsets.

In preparing its estimates of proven producing reserves, Energy Objective relied exclusively on production decline data to determine these volumes. For those pools where natural gas was produced as a result of solution gas recovery during oil production operations, natural gas volumes were converted to oil equivalent volumes on a ratio of 6.5:1 and included as oil equivalent units in the proven producing reserves, remaining proved producing and remaining proved non-producing reserve estimates. For those pools where natural gas was produced independent of oil production, natural gas volumes were reflected independently in the Reserve Summary Table.

Proved non-producing reserves were derived by subtracting the proved producing reserves from a modified volumetric calculation of reserves based on geological mapping of average pay thickness, average porosity, average pay thickness and recovery factors. In those cases where the large average recovery factor resulting from the division of the proven producing reserve estimates and the total volumetric estimates based on the geological mapping is relatively high, Energy Objective has chosen not to allocate proved non-producing reserves.

***Unproved Reserves***

Energy Objective's estimate of unproved reserves is based on geologic and/or engineering data similar to that used in estimates of proved reserves. For the purpose of this study the unproved reserves have been classified as probable reserves and possible reserves.

***Probable Reserves***

Probable reserves are those unproved reserves which analysis of geological and engineering data suggests are more likely than not to be recoverable. Probable reserves may include reserves anticipated to be proved by normal step-out drilling where sub-surface control is inadequate to classify these reserves as proved, reserves in formations that appear to be productive based on well log characteristics but lack core data or definitive tests and which are not analogous to producing or proved reservoirs in the area, incremental reserves attributable to infill drilling that could have been classified as proved if closer statutory spacing had been approved at the time of the estimate and incremental reserves in proved reservoirs where an alternative interpretation of performance or volumetric data indicates more reserves than can be classified as proved.

Considering the above definition, Energy Objective's Unproved probable reserves were derived by subtracting the proved producing + proved non-producing reserves from a volumetric calculation of reserves based on geological mapping of average pay thickness, average porosity, and maximum recovery factor (as determined from the well exhibiting the greatest recovery factor per spacing).

***Possible Reserves***

Possible reserves are those unproved reserves which analysis of geological and engineering data suggests are less likely to be recoverable than probable reserves.

In general, possible reserves may include reserves which, based on geological interpretations, could possibly exist beyond areas classified as probable, reserves in formations that appear to be petroleum bearing based on log and core analysis but may not be productive at commercial rates and incremental reserves attributed to infill drilling that are subject to technical uncertainty.

Possible reserves were derived by subtracting the proven producing + proven non-producing + unproved probable reserves from the volumetric calculation of reserves based on the area defined by the geological mapping plus the balance of the spacing area adjacent to the mapped boundary of the pool. As with the determination of probable reserves, the volumetric estimate used average pay thickness, average porosity and a maximum recovery factor.

## Conclusions

Using the above methodology the results of the reserve analysis is summarized in the attached Table C. The following Table B provides a summation of the reserve estimates for those fields contained within Table C.

TABLE B - SUMMARY OF RECOVERABLE RESERVES: ORDOVICIAN POOL STUDY 2004

| | PROVEN PRODUCING RESERVES[g] | REMAINING PROVEN PRODUCING RESERVES[k] | PROVEN NON-PRODUCING RESERVES[l] | PROBABLE RESERVES[m] | POSSIBLE RESERVES[n] |
|---|---|---|---|---|---|
| OIL m3oe | 3,252,792 | 463,309 | 71,263 | 3,323,355 | 8,256,515 |
| GAS 10^3m3 | 642,777 | 130,513 | 33,611 | 641,696 | 1,319,278 |

The recoverable reserves identified in this study suggest that significant accumulations of hydrocarbons remain to be recovered from the subject pools and from probable and possible reserves within and adjacent to the currently defined limits of the fields in which these pools are located.

This study was prepared using data provided by Golder Associates, its Consultants, the MNR and the OGSR. Technical information and evaluations provided by Golder et al have been prepared in a manner consistent with proper engineering and geological practices. Nevertheless, the values presented in this study may be affected by the validity of the data received and the assumptions made by the authors as qualified below.

- Production data and certain well and reservoir data were provided by Golder et al or from public sources and were accepted as represented. Energy Objective or the author made no further investigation.

- The accuracy of the decline analysis is, in part, a function of the quality and quantity of available data and of engineering and geological interpretation and judgement. Given the data made available at the time this report was prepared, the values presented herein are considered reasonable. However, these values should be accepted with the understanding that reservoir performance may change subsequent to the date of this report and result in necessary revisions. Due to rounding, some totals may appear to be inconsistent within the study.

## CERTIFICATE OF QUALIFICATION

I, Dr. Philip R. Walsh, of the Town of Farnham, United Kingdom, do hereby certify that I am a Registered Professional Geologist licenced to practice by the Association of Professional Engineers, Geologists and Geophysicists of Alberta and a Registered Professional Geoscientist licenced to practice by the Association of Professional Geoscientists of Ontario. I hold a Bachelor of Science (Honours) from Queens University at Kingston, a Masters in Business Administration from the University of Western Ontario and, a PhD in Management from the University of Bradford. In addition, I am a member in good standing of the following professional associations:

- Society of Petroleum Engineers
- International Association of Energy Economics
- Association of Energy Engineers
- Canadian Society of Exploration Geophysicists
- Petroleum Exploration Society of Great Britain
- Ontario Petroleum Institute

I, Joseph E. Gorman, of the City of St. John's, Province of Newfoundland and Labrador, do hereby certify that I am a Registered Professional Engineer licenced to practice by Professional Engineers Ontario and the Association of Professional Engineers and Geoscientists of Newfoundland. I hold a Certificate of Authorization (#10004247) issued by the Association of Professional Engineers of Ontario. I hold a Bachelor of Engineering from the Memorial University of Newfoundland. In addition I am a member in good standing of the following professional associations:

- Society of Petroleum Engineers
- Ontario Petroleum Institute

Furthermore, we hereby certify that we have no interest, direct or indirect, nor do we expect to receive any interest, direct or indirect, in the properties contained in the evaluation to which this Certificate is attached.

Dr. Philip R. Walsh
M35199 & #0795

Joseph E. Gorman
#16674301 & #10004247

TABLE C - RECOVERABLE RESERVE SUMMARY TABLE - ORDOVICIAN STUDY 2004

| FIELD NAME | POOL NAME (Official) | PROVEN PRODUCING RESERVES[g] Oil m3 | PROVEN PRODUCING RESERVES[g,o] Gas 10^3 m3 | REMAINING PROVEN PRODUCING RESERVES[k] Oil m3 | REMAINING PROVEN PRODUCING RESERVES[k,o] Gas 10^3 m3 | PROVEN NON-PRODUCING RESERVES[l] Oil m3 | PROVEN NON-PRODUCING RESERVES[l,o] Gas 10^3 m3 | PROBABLE RESERVES[m] Oil m3 | PROBABLE RESERVES[m,o] Gas 10^3m3 | POSSIBLE RESERVES[n] Oil m3 | POSSIBLE RESERVES[n,o] Gas 10^3 m3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Goldsmith-Lakeshore | Romney 3-8-II (includes Romney 7-10-II) | 488,677 | 59,611 | 75,350 | 14,325 | 143,036 | 50,172 | 980,282 | 170,359 | 1,115,108 | 193,790 |
| | Mersea 6-23-VII | 483,183 | 53,849 | 34,096 | 6,336 | - | - | 174,345 | 53,141 | 1,061,840 | 172,778 |
| | ***Sub-total*** | ***971,860*** | ***113,460*** | ***109,446*** | ***20,661*** | ***143,036*** | ***50,172*** | ***1,154,627*** | ***223,501*** | ***2,176,947*** | ***366,568*** |
| Dover East | Dover 7-5-V E | 209,519 | 275,515 | 12,561 | 31,176 | - | 51,419 | 148,641 | 172,403 | 301,233 | 418,371 |
| | ***Sub-total*** | ***209,519*** | ***275,515*** | ***12,561*** | ***31,176*** | ***-*** | ***51,419*** | ***148,641*** | ***172,403*** | ***301,233*** | ***418,371*** |
| Renwick-Fargo | Romney 6-13-III | 326,087 | 23,623 | 38,088 | 4,716 | - | - | 279,566 | 25,430 | 1,100,383 | 53,100 |
| | Romney 6-13-IV [1] | 173,512 | 14,326 | 7,251 | 738 | - | - | 247,131 | 32,310 | 414,094 | 45,910 |
| | Romney 5-15-I [2] | 113,488 | 15,681 | 52,609 | 7,368 | - | - | 99,024 | 20,552 | 290,484 | 49,527 |
| | Mersea 6-20-XI | 4,187 | - | 2,155 | - | 1,866 | - | 16,930 | - | 64,458 | - |
| | ***Sub-total*** | ***617,274*** | ***53,630*** | ***100,103*** | ***12,822*** | ***1,866*** | | ***642,650*** | ***78,292*** | ***1,869,419*** | ***148,537*** |
| Rochester | Rochester 1-20-V EBR | 7,114 | - | 874 | - | 7,114 | - | - | - | 14,228 | - |
| | Rochester 4-8-I [3] | 15,062 | 3,966 | 1,799 | 720 | 12,357 | 4,414 | - | - | 17,768 | 5,430 |
| | Rochester 8-8-I | 8,237 | 988 | 1,867 | 268 | - | - | 2,697 | 555 | 4,458 | 629 |
| | Rochester 7-17-IV [3] | 113,230 | 18,623 | 17,980 | 6,828 | - | - | 48,099 | 6,321 | 141,466 | 21,873 |
| | Rochester 1-17-II EBR [3] | 267,109 | 52,152 | 23,674 | 11,018 | - | - | 150,302 | 35,699 | 295,609 | 62,216 |
| | ***Sub-total*** | ***410,753*** | ***75,729*** | ***46,194*** | ***18,834*** | ***19,471*** | ***4,414*** | ***201,099*** | ***42,575*** | ***473,528*** | ***90,148*** |

1 - Same pool as Romney 6-13-III
2 - Horizontal wells - limited data available, assumed parameters equal to Romney 6-13-III
3 - Average of Trenton and Black River, Other pools are Trenton
4 - Limited data available, Reserve information included in Hillman Pool
5 - Limited production data - Reserve information included in Mersea 2-15-B Pool
6 - Horizontal wells - limited data available, assumed parameters equal to average of other Hillman Pools

g - Derived from Production Decline Analysis
h - Derived from dividing the Proven Producing Reserves by the Original Reserves in Place
i - The largest recovery factor from any one well in the pool based on a well spacing basis
j - Derived from Production Decline Analysis
k - Proven Producing Reserves minus Reserves produced to date
l - Derived from the difference between Proven Recoverable Reserves and Proven Producing Reserves
m - Derived from the difference between Recoverable Reserves at a Maximum Recovery Factor minus Proven Recoverable Reserves
n - Derived from the difference between Recoverable Reserves at a Maximum Recovery Factor plus adjacent spacing and Probable Reserves
o - except for Blenheim 8-13-X and Dover 7-5-VE, natural gas produced as solution gas derived from oil production and forecasted as such

| FIELD NAME | POOL NAME (Official) | PROVEN PRODUCING RESERVES[g] Oil m3 | PROVEN PRODUCING RESERVES[g] Gas 10^3 m3 | REMAINING PROVEN PRODUCING RESERVES[k] Oil m3 | REMAINING PROVEN PRODUCING RESERVES[k] Gas 10^3 m3 | PROVEN NON-PRODUCING RESERVES[l] Oil m3 | PROVEN NON-PRODUCING RESERVES[l] Gas 10^3 m3 | PROBABLE RESERVES[m] Oil m3 | PROBABLE RESERVES[m] Gas 10^3m3 | POSSIBLE RESERVES[n] Oil m3 | POSSIBLE RESERVES[n] Gas 10^3 m3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hillman | Hillman | 335,641 | 16,602 | 16,350 | 3,099 | - | - | 556,406 | 31,042 | 2,323,751 | 122,705 |
| | Mersea 7-15-A [4] | | | | | | | | | | |
| | Mersea 2-15-B | 59,582 | 3,857 | 8,701 | 1,213 | - | - | - | - | 124,935 | 8,292 |
| | Mersea 6-16-B [5] | | | | | | | | | | |
| | Mersea 4-240-STR | 114,495 | 15,648 | 21,782 | 4,740 | - | - | 53,659 | 12,564 | 157,726 | 26,914 |
| | Mersea 1-16-I [6] | 28,192 | 4,058 | 4,754 | 1,864 | - | - | - | 1,969 | 69,486 | 14,387 |
| | ***Sub-total*** | ***537,911*** | ***40,165*** | ***51,587*** | ***10,915*** | | | ***610,065*** | ***45,575*** | ***2,675,898*** | ***172,298*** |
| Wigle-Olinda | Gosfield North 2-21-VI | 136,266 | 13,815 | 51,077 | 6,807 | - | - | 3,557 | 481 | 114,743 | 11,731 |
| | Gosfield South 2-24-V | 13,611 | - | 5,140 | - | 2,416 | - | 8,999 | - | 22,795 | - |
| | Mersea 3-4-IV | 183,420 | 21,471 | 44,938 | 7,535 | - | - | 205,391 | 27,876 | 264,275 | 33,206 |
| | Mersea 3-6-V | 222,859 | 30,808 | 48,086 | 9,867 | - | - | 202,982 | 32,901 | 359,317 | 53,757 |
| | ***Sub-total*** | ***556,156*** | ***66,094*** | ***149,241*** | ***24,209*** | ***2,416*** | | ***420,929*** | ***61,258*** | ***761,130*** | ***98,694*** |
| Innerkip | Blenheim 8-13-X | - | 31,192 | - | 15,299 | - | - | - | - | - | 24,808 |
| | ***Sub-total*** | | ***31,192*** | | ***15,299*** | | | | | | ***24,808*** |
| | **TOTAL** | **3,303,473** | **655,784** | **469,133** | **133,915** | **166,789** | **106,005** | **3,178,011** | **623,604** | **8,258,155** | **1,319,425** |

1 - Same pool as Romney 6-13-III
2 - Horizontal wells - limited data available, assumed parameters equal to Romney 6-13-III
3 - Average of Trenton and Black River, Other pools are Trenton
4 - Limited data available, Reserve information included in Hillman Pool
5 - Limited production data - Reserve information included in Mersea 2-15-B Pool
6 - Horizontal wells - limited data available, assumed parameters equal to average of other Hillman Pools

g - Derived from Production Decline Analysis
h - Derived from dividing the Proven Producing Reserves by the Original Reserves in Place
i - The largest recovery factor from any one well in the pool based on a well spacing basis
j - Derived from Production Decline Analysis
k - Proven Producing Reserves minus Reserves produced to date
l - Derived from the difference between Proven Recoverable Reserves and Proven Producing Reserves
m - Derived from the difference between Recoverable Reserves at a Maximum Recovery Factor minus Proven Recoverable Reserves
n - Derived from the difference between Recoverable Reserves at a Maximum Recovery Factor plus adjacent spacing and Probable Reserves
o - except for Blenheim 8-13-X and Dover 7-5-VE, natural gas produced as solution gas derived from oil production and forecasted as such

TABLE D - GEOLOGICAL AND RESERVOIR CHARACTERISTIC DATA - ORDOVICIAN STUDY 2004

| | | | | | | | | OIL CHARACTERISTICS * | | | | | | | | | | | | NATURAL GAS CHARACTERISTICS * | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CODE | FIELD NAME | POOL NAME | POOL NAME | COUNTY | TOWNSHIP | LOT | CON | MAXIMUM | AVERAGE | INITIAL | MAXIMUM | AVERAGE | OIL/GAS | AVERAGE | POROSITY | AVERAGE | PERMEABILITY | WELL | | | CODE | FORMATION | | GROSS | | | | INITIAL | RESERVOIR | RESERVOIR | HYDROCARBONS | CUMULATIVE | CUMULATIVE | MAXIMUM | MAXIMUM | AVERAGE | MAXIMUM | ANNUAL |
| NUMBER | | (Official) | (Commonly | | | | | GAS PAY | GAS PAY | PRESSURE | OIL PAY | OIL PAY | WATER | POROSITY | RANGE | PERMEABILITY | RANGE | SPACING | GRAVITY | SULPHUR | NUMBER | TEMPERATURE | SPECIFIC | HEATING | Tcr | Pcr | % H2S | COMPRESSIBILITY | AREA[b] | VOLUME[c] | IN-PLACE[d] | PRODUCTION[e] | PRODUCTION[e,o] | INITIAL | INITIAL GAS | RECOVERY | RECOVERY | DECLINE |
| | | | Applied) | | | | | | | | | | CONTACT (SS) | | | | | | | CONTENT | | | GRAVITY | VALUE | | | | FACTOR | | | | | | PRODUCTION[g] | PRODUCTION[f] | FACTOR[k] | FACTOR[l] | RATE[j] |
| | | | | | | | | (m) | (m) | kPa (abs) | (m) | (m) | (m) | % | % | (md) | (md) | ha | DEG API | WT. % | | DEG C | | MJ/m3 | DEG K | kPa ABS | % | z | ha | m3 | m3oe | m3 | 10^3m3 | m3/day | 10^3m3/day | % | % | % |
| 1 | Goldsmith-Lakeshore | Romney 3-8-II | Wheatley East | Kent | Romney | 8 | II | - | - | 8000 | 39 | 16 | | 6.90 | 1-18 | - | - | 20.2 | 39.8 | 1.20 | 1 | 31 | 0.721 | 46.35 | 219.6 | 4552.3 | 0.0 | - | 471 | 5,197,888 | 3,594,829 | 413,327 | 45,286 | 30 | 10 | 13.6% | 44.8% | 18.00% |
| 2 | | (incl. Romney 7-10-II | Yellow Creek | Kent | Romney | 10 | II | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| 3 | | Mersea 6-23-VII | Goldsmith | Essex | Mersea | 23 | VII | - | - | 8150 | 27.3 | 14.1 | - | 5.90 | 1-21.1 | 14 | .01-10,000 | 20.2 | 40.7 | 1.40 | 3 | 27 | 0.685 | 43.32 | 210.5 | 4543.4 | 0.0 | - | 255 | 2,124,311 | 1,469,547 | 449,087 | 47,513 | 40 | 12 | 32.88% | 44.74% | 18.00% |
| 4 | Dover East | Dover 7-5-V E | | Kent | Dover East | 5 | V | 36 | 12 | 8270 | 43 | 15 | - | 6.70 | 1- 9.5 | - | - | 20.2 | 39.5 | 1.31 | 4 | 28 | 0.741 | 47.46 | 222.1 | 4545.0 | 0.0 | 0.80 | 454 | 4,041,705 | 1,543,358 | 196,958 | 244,339 | 29 | 22 | 15.56% | 26.78% | 12.00% |
| 5 | Renwick-Fargo | Romney 6-13-III | Renwick South | Kent | Romney | 13 | III | - | - | 8340 | 29 | 22 | - | 6.80 | 1-30+ | - | - | 20.2 | 42.3 | 0.76 | 5 | 30 | 0.744 | 47.43 | 221.1 | 4532.0 | 0.0 | - | 223 | 3,343,192 | 2,256,805 | 287,999 | 18,907 | 44 | 3 | 14.45% | 26.84% | 20.00% |
| 6 | | Romney 6-13-IV [1] | Renwick North | Kent | Romney | 13 | IV | - | - | 8340 | 29 | 22 | - | 6.80 | 1-30+ | - | - | 20.2 | 42.4 | 1.17 | 6 | 29 | 0.733 | 47.10 | 222.3 | 4555.1 | 0.0 | - | 158 | 2,364,366 | 1,523,629 | 166,261 | 13,588 | 16 | 4 | 11.39% | 27.61% | 19.00% |
| 7 | | Romney 5-15-I [2] | Fargo | Kent | Romney | 15 | I | - | - | 8340 | 29 | 22 | - | 6.80 | 1-30+ | - | - | 20.2 | 41.5 | 2.50 | 7 | - | 0.890 | 56.50 | - | - | - | - | 111 | 1,662,575 | 1,003,416 | 60,879 | 8,313 | 41 | 8 | 11.31% | 21.18% | 20.00% |
| 8 | | Mersea 6-20-XI | Windfall | Essex | Mersea | 20 | XI | - | - | 8340 | 9 | 7 | - | 6.50 | 1-9.5 | - | - | 20.2 | 42.0 | - | 8 | - | 0.789 | - | - | - | - | - | 29 | 133,091 | 106,345 | 2,032 | - | 1 | - | 3.94% | 21.61% | 5.00% |
| 9 | Rochester | Rochester 1-20-V EBR | | Essex | Rochester | 20 | V EBR | - | - | 8805 | 10 | 3 | - | 6.00 | 1-10 | - | - | 20.2 | 40.0 | - | 9 | - | 0.697 | - | - | - | - | - | 40 | 72,843 | 58,318 | 6,240 | - | 4 | - | 12.20% | 24.40% | 20.00% |
| 10 | | Rochester 4-8-I [3] | | Essex | Rochester | 8 | I | - | - | 9595 | 31 | 10.3 | -810 | 6.60 | 1-30+ | - | - | 20.2 | 38.9 | 0.00 | 10 | - | 0.683 | 40.06 | - | - | 0.0 | - | 37 | 250,401 | 126,673 | 13,263 | 3,246 | 11 | 2 | 11.89% | 21.65% | 20.00% |
| 11 | | Rochester 8-8-I | | Essex | Rochester | 8 | I | - | - | 8805 | 23 | 18 | - | 6.60 | 1-13 | - | - | 20.2 | 40.0 | - | 11 | - | 0.697 | - | - | - | - | - | 29 | 341,536 | 215,856 | 6,370 | 720 | 4 | 1 | 3.82% | 5.07% | 15.00% |
| 12 | | Rochester 7-17-IV [3] | | Essex | Rochester | 17 | IV | - | - | 8490 | 27 | 11.6 | - | 7.10 | 1-28 | - | - | 20.2 | 41.3 | 0.80 | 12 | - | 0.635 | 43.40 | - | - | 0.0 | - | 97 | 799,118 | 496,332 | 95,250 | 11,795 | 24 | 2 | 22.81% | 32.50% | 20.00% |
| 13 | | Rochester 1-17-II EBR [3] | Brynedale | Essex | Rochester | 17 | II EBR | - | - | 8805 | 40 | 19 | -706 | 8.20 | 1- 30+ | - | - | 20.2 | 41.3 | 0.80 | 13 | 27 | 0.774 | 50.22 | 232.7 | 4575.8 | 0.0 | - | 166 | 2,583,719 | 1,446,123 | 243,435 | 41,134 | 48 | 6 | 18.47% | 28.86% | 21.00% |
| 14 | Hillman | Hillman | Hillman | Essex | Mersea | 14 | A | - | - | 8176 | 58 | 26 | -650 | 7.80 | 1-14 | - | - | 20.2 | 41.5 | 1.18 | 14 | 26 | 0.798 | 51.03 | 233.2 | 4525.3 | 0.0 | - | 241 | 4,894,667 | 3,476,441 | 319,320 | 13,503 | 31 | 4 | 9.65% | 25.66% | 14.00% |
| | | Mersea 7-15-A [4] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | Mersea 2-15-B | Klymer | Essex | Mersea | 15 | B | - | - | 8176 | 15.5 | 7.2 | - | 8.10 | 1-30+ | 19 | .01-5140 | 20.2 | 41.1 | 1.36 | 15 | 24 | 0.729 | 46.07 | 218.0 | 4520.2 | 0.0 | - | 36 | 209,579 | 145,837 | 50,881 | 2,644 | 12 | 2 | 40.86% | 40.86% | 18.97% |
| | | Mersea 6-16-B [5] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | Mersea 4-240-STR | Sturgeon Creek | Essex | Mersea | 240 | STR | - | - | 8176 | 13 | 7.5 | -640 | 7.00 | 1-13.5 | - | - | 20.2 | 40.0 | 13.50 | 16 | - | 0.600 | 37.80 | - | - | - | - | 84 | 438,517 | 265,848 | 92,714 | 10,909 | 35 | 4 | 43.07% | 63.25% | 20.52% |
| 17 | | Mersea 1-16-I [6] | | Essex | Mersea | 16 | I | - | - | 8176 | 23.6 | 11.46 | - | 7.56 | 1-20 | - | - | 20.2 | 41.0 | - | 17 | - | 0.709 | - | - | - | - | - | 78 | 673,171 | 388,456 | 23,438 | 2,194 | 6 | 2 | 4.70% | 7.03% | 26.31% |
| 18 | Olinda-Wigle | Gosfield North 2-21-VI | Olinda | Essex | Gosfield North | 21 | VI | - | - | 8000 | 20.5 | 6.2 | - | 6.90 | 1-19.5 | - | - | 20.2 | 41.4 | 1.24 | 18 | 27 | 0.795 | 51.21 | 233.9 | 4538.8 | 0.0 | - | 144 | 618,089 | 404,741 | 85,189 | 7,008 | 17 | 3 | 33.67% | 34.55% | 17.50% |
| 19 | | Gosfield South 2-24-V | | Essex | Gosfield South | 24 | V | - | - | 8000 | 8 | 2.8 | - | 5.90 | 1-10.8 | - | - | 20.2 | 41.8 | 0.00 | 19 | - | 0.840 | 42.60 | - | - | - | - | 48 | 78,721 | 62,785 | 8,471 | - | 4 | - | 21.68% | 39.86% | 18.38% |
| 20 | | Mersea 3-4-IV | Hillman Creek | Essex | Mersea | 4 | IV | - | - | 8000 | 15 | 9.2 | - | 5.30 | 1-7.7 | - | - | 20.2 | 41.5 | - | 20 | - | 0.792 | 50.80 | - | - | - | - | 241 | 1,174,141 | 758,315 | 138,482 | 13,638 | 28 | 5 | 24.19% | 51.21% | 20.00% |
| 21 | | Mersea 3-6-V | Wigle | Essex | Mersea | 6 | V | - | - | 8000 | 21 | 6.5 | - | 5.90 | 1-8.7 | - | - | 20.2 | 41.7 | 0.60 | 21 | - | 0.792 | - | - | - | - | - | 241 | 925,905 | 577,008 | 174,773 | 20,941 | 25 | 2 | 38.63% | 73.80% | 21.00% |
| 22 | Innerkip | Blenheim 8-13-X | | | Blenheim | 13 | X | - | - | 3770 | 5 | 3 | - | 7.00 | 1-7.5 | - | - | 20.2 | - | - | 22 | - | 0.700 | - | - | - | - | 0.89 | 243 | 504,948 | 15,925 | - | 15,893 | - | 8 | 100.00% | 100.00% | 22.00% |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Totals | 3,427 | 32,432,482 | 19,936,585 | 2,834,369 | 521,572 | | | | | TOTAL |

1 - Same pool as Romney 6-13-III
2 - Horizontal wells - limited data available, assumed parameters equal to Romney 6-13-II
3 - Average of Trenton and Black River, Other pools are Trentor
4 - Limited data available, Reserve information included in Hillman Po
5 - Limited production data - Reserve information included in Mersea 2-15-B Poc
6 - Horizontal wells - limited data available, assumed parameters equal to average of other Hillman Poc

a - Data was derived from individual wells in pool, if data was unavailable it has been noted as (
b - Reservoir area planimetered from geological interpretation - pool boundary equal to structural inflectio
c - Reservoir volume equal to Reservoir Area x Average Pay Thickness x Average Porosi
d - Stock Tank volumetric calculation equal to Reservoir Volume x (1-$S_w$)/formation volume factor
e - Derived from MNR data
f - Determined by taking the largest annual production from a well in the pool and dividing by 3(

g - Derived from Production Decline Analysi
h - Derived from dividing the Proven Producing Reserves by the Original Reserves in Pla
i - The largest recovery factor from any one well in the pool based on a well spacing bas
j - Derived from Production Decline Analysi
k - Proven Producing Reserves minus Reserves produced to dat
l - Derived from the difference between Proven Recoverable Reserves and Proven Producing Reserv
m - Derived from the difference between Recoverable Reserves at a Maximum Recovery Factor minus Proven Recoverable Reserv
n - Derived from the difference between Recoverable Reserves at a Maximum Recovery Factor plus adjacent spacing and Probable Reserv

o - except for Blenheim 8-13-X and Dover 7-5-VE, natural gas produced as solution gas derived from oil production and forecasted as such

# APPENDIX C

# POOL SUMMARIES FOR RESERVE REPORT (JOE GORMAN, ENERGY OBJECTIVE LTD.)

Well No.: **T003803**

Well Name:

Status:

MNR Pool: **Aldborough 7-18-VI**

Well: **T003803**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | ERR | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | ERR | m3 per m3 | ERR | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **0** | m3 | **719** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **0** | m3 | **719** | e3m3 | **0** | m3 |
| Peak Rate: | 0.0 | m3/d | 1.2 | e3m3/d | based on annual | |
| Peak Rate: | | m3/d | 14.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 0.4 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

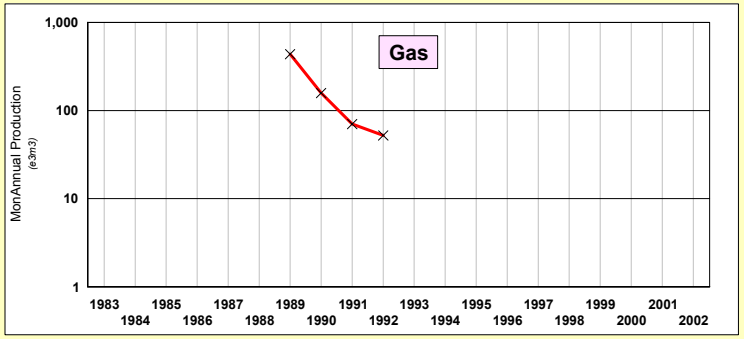
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1989 | 0 | 438 | 0 | 0 | 438 | 0 | |
| 2 | 1990 | 0 | 159 | 0 | 0 | 597 | 0 | |
| 3 | 1991 | 0 | 70 | 0 | 0 | 667 | 0 | |
| 4 | 1992 | 0 | 52 | 0 | 0 | 719 | 0 | |
| 4 | 1993 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 1994 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 1995 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 1996 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 1997 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 1998 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 1999 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2000 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2001 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2002 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2003 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2004 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2005 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2006 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2007 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2008 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2009 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2010 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2011 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2012 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2013 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2014 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2015 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2016 | 0 | 0 | 0 | 0 | 719 | 0 | |
| 4 | 2017 | 0 | 0 | 0 | 0 | 719 | 0 | |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 0 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | **0.0000** | per month | Decline Factor: | **0.0000** | per month |



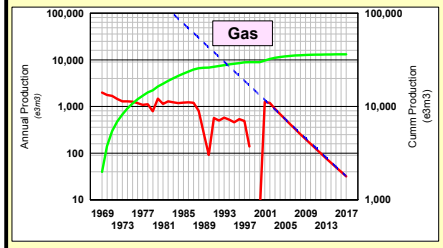
MNR Pool: **Arthur**

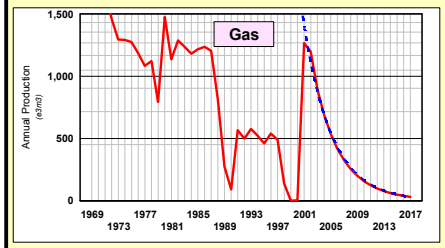
TGI Pool: **Arthur**

TGI Field:

No of Wells: **3**

## Annual & Cumulative Production
*(since 1983)*




**21%** Pool Decline

| From | To | Source |
|---|---|---|
| 1969 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

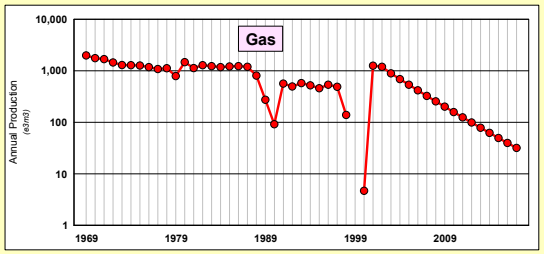
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 1,197 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 0 | m3 | 32,375 | e3m3 | 0 | m3 |
| Remaining Recoverable: | 0 | m3 | 3,981 | e3m3 | 0 | m3 |
| Total Recovery: | 0 | m3 | 36,356 | e3m3 | 0 | m3 |

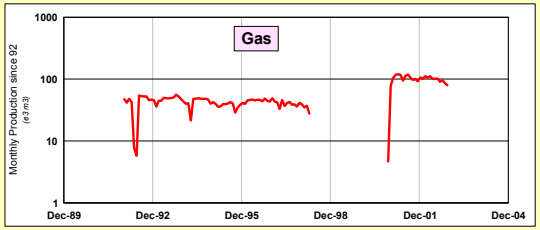
Current Rate: 0 m3/d 3 e3m3/d

Current decline rate: 21% annually

| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 1 | 1969 | 0 | 1,990 | 0 | 0 | 1,990 | 0 | |
| 2 | 2 | 1970 | 0 | 1,769 | 0 | 0 | 3,759 | 0 | |
| 2 | 3 | 1971 | 0 | 1,694 | 0 | 0 | 5,453 | 0 | |
| 2 | 4 | 1972 | 0 | 1,460 | 0 | 0 | 6,913 | 0 | |
| 2 | 5 | 1973 | 0 | 1,295 | 0 | 0 | 8,209 | 0 | |
| 2 | 6 | 1974 | 0 | 1,291 | 0 | 0 | 9,500 | 0 | |
| 2 | 7 | 1975 | 0 | 1,275 | 0 | 0 | 10,775 | 0 | |
| 2 | 8 | 1976 | 0 | 1,185 | 0 | 0 | 11,959 | 0 | |
| 2 | 9 | 1977 | 0 | 1,084 | 0 | 0 | 13,043 | 0 | |
| 2 | 10 | 1978 | 0 | 1,122 | 0 | 0 | 14,165 | 0 | |
| 2 | 11 | 1979 | 0 | 794 | 0 | 0 | 14,959 | 0 | |
| 2 | 12 | 1980 | 0 | 1,477 | 0 | 0 | 16,436 | 0 | |
| 3 | 13 | 1981 | 0 | 1,135 | 0 | 0 | 17,571 | 0 | |
| 3 | 14 | 1982 | 0 | 1,288 | 0 | 0 | 18,859 | 0 | |
| 3 | 15 | 1983 | 0 | 1,236 | 0 | 0 | 20,095 | 0 | |
| 3 | 16 | 1984 | 0 | 1,181 | 0 | 0 | 21,276 | 0 | |
| 3 | 17 | 1985 | 0 | 1,217 | 0 | 0 | 22,492 | 0 | |
| 3 | 18 | 1986 | 0 | 1,236 | 0 | 0 | 23,728 | 0 | |
| 3 | 19 | 1987 | 0 | 1,204 | 0 | 0 | 24,933 | 0 | |
| 3 | 20 | 1988 | 0 | 811 | 0 | 0 | 25,744 | 0 | |
| 3 | 21 | 1989 | 0 | 276 | 0 | 0 | 26,020 | 0 | |
| 2 | 22 | 1990 | 0 | 92 | 0 | 0 | 26,111 | 0 | |
| 2 | 23 | 1991 | 0 | 567 | 0 | 0 | 26,678 | 0 | |
| 2 | 24 | 1992 | 0 | 499 | 0 | 0 | 27,177 | 0 | |
| 2 | 25 | 1993 | 0 | 577 | 0 | 0 | 27,754 | 0 | |
| 2 | 26 | 1994 | 0 | 524 | 0 | 0 | 28,278 | 0 | |
| 2 | 27 | 1995 | 0 | 460 | 0 | 0 | 28,738 | 0 | |
| 1 | 28 | 1996 | 0 | 540 | 0 | 0 | 29,277 | 0 | |
| 1 | 29 | 1997 | 0 | 491 | 0 | 0 | 29,768 | 0 | |
| 1 | 30 | 1998 | 0 | 140 | 0 | 0 | 29,908 | 0 | |
| 0 | 30 | 1999 | 0 | 0 | 0 | 0 | 29,908 | 0 | |
| 1 | 31 | 2000 | 0 | 5 | 0 | 0 | 29,912 | 0 | |
| 3 | 32 | 2001 | 0 | 1,266 | 0 | 0 | 31,178 | 0 | |
| 2 | 33 | 2002 | 0 | 1,197 | 0 | 0 | 32,375 | 0 | |
| | 34 | 2003 | 0 | 897 | 0 | 0 | 33,272 | 0 | |
| | 35 | 2004 | 0 | 694 | 0 | 0 | 33,966 | 0 | |
| | 36 | 2005 | 0 | 538 | 0 | 0 | 34,504 | 0 | |
| | 37 | 2006 | 0 | 419 | 0 | 0 | 34,924 | 0 | |
| | 38 | 2007 | 0 | 328 | 0 | 0 | 35,251 | 0 | |
| | 39 | 2008 | 0 | 257 | 0 | 0 | 35,508 | 0 | |
| | 40 | 2009 | 0 | 202 | 0 | 0 | 35,709 | 0 | |
| | 41 | 2010 | 0 | 159 | 0 | 0 | 35,868 | 0 | |
| | 42 | 2011 | 0 | 126 | 0 | 0 | 35,994 | 0 | |
| | 43 | 2012 | 0 | 99 | 0 | 0 | 36,093 | 0 | |
| | 44 | 2013 | 0 | 79 | 0 | 0 | 36,172 | 0 | |
| | 45 | 2014 | 0 | 63 | 0 | 0 | 36,235 | 0 | |
| | 46 | 2015 | 0 | 50 | 0 | 0 | 36,285 | 0 | |
| | 47 | 2016 | 0 | 40 | 0 | 0 | 36,325 | 0 | |
| | 48 | 2017 | 0 | 32 | 0 | 0 | 36,356 | 0 | |
| | To date: | | 0 | 32,375 | 0 | | | | |

## Monthly Production vs Month
*(1992 to 2002)*



Well No.: **T005177**

Well Name:

Status:

MNR Pool: **Arthur**

## Monthly Production vs Month + Forecast
*(since 1992)*

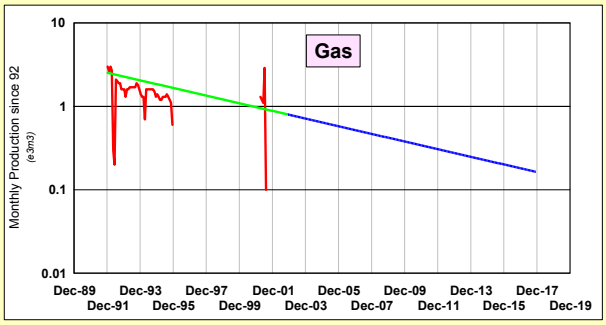
Well: **T005177**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | ERR | m3 per m3 | 0 | | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | ERR | | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 0 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 0 | m3 | 842 | e3m3 | 0 | m3 |
| Remaining Recoverable: | 0 | m3 | 72 | e3m3 | 0 | m3 |
| Total Recovery: | 0 | m3 | 914 | e3m3 | 0 | m3 |
| Peak Rate: | 0.0 | m3/d | 0.3 | e3m3/d | based on annual | |
| Peak Rate: | 0.0 | m3/d | 3.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.3 | m3/d | 0.3 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

**Basis--->** Gas

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 0.8 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | 0.0087 | per month | Decline Factor: | 0.0087 | per month |




| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| | 1969 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1970 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1971 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1972 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1973 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1974 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1976 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1977 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1978 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1979 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1980 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | |
| 1 | 1981 | 0.0 | 54.6 | 0.0 | 0.0 | 54.6 | 0.0 | |
| 2 | 1982 | 0.0 | 99.7 | 0.0 | 0.0 | 154.3 | 0.0 | |
| 3 | 1983 | 0.0 | 90.1 | 0.0 | 0.0 | 244.4 | 0.0 | |
| 4 | 1984 | 0.0 | 86.2 | 0.0 | 0.0 | 330.6 | 0.0 | |
| 5 | 1985 | 0.0 | 69.1 | 0.0 | 0.0 | 399.7 | 0.0 | |
| 6 | 1986 | 0.0 | 81.4 | 0.0 | 0.0 | 481.1 | 0.0 | |
| 7 | 1987 | 0.0 | 79.3 | 0.0 | 0.0 | 560.4 | 0.0 | |
| 8 | 1988 | 0.0 | 114.7 | 0.0 | 0.0 | 675.1 | 0.0 | |
| 9 | 1989 | 0.0 | 39.0 | 0.0 | 0.0 | 714.1 | 0.0 | |
| 10 | 1990 | 0.0 | 8.7 | 0.0 | 0.0 | 722.8 | 0.0 | |
| 11 | 1991 | 0.0 | 38.3 | 0.0 | 0.0 | 761.1 | 0.0 | |
| 12 | 1992 | 0 | 23 | 0 | 0 | 784 | 0 | |
| 13 | 1993 | 0 | 20 | 0 | 0 | 804 | 0 | |
| 14 | 1994 | 0 | 17 | 0 | 0 | 821 | 0 | |
| 15 | 1995 | 0 | 15 | 0 | 0 | 836 | 0 | |
| | 1996 | 0 | 0 | 0 | 0 | 836 | 0 | |
| | 1997 | 0 | 0 | 0 | 0 | 836 | 0 | |
| | 1998 | 0 | 0 | 0 | 0 | 836 | 0 | |
| | 1999 | 0 | 0 | 0 | 0 | 836 | 0 | |
| | 2000 | 0 | 0 | 0 | 0 | 836 | 0 | |
| 16 | 2001 | 0 | 7 | 0 | 0 | 842 | 0 | |
| | 2002 | 0 | 0 | 0 | 0 | 842 | 0 | |
| 17 | 2003 | 0 | 9 | 0 | 0 | 851 | 0 | |
| 18 | 2004 | 0 | 8 | 0 | 0 | 859 | 0 | |
| 19 | 2005 | 0 | 7 | 0 | 0 | 867 | 0 | |
| 20 | 2006 | 0 | 7 | 0 | 0 | 873 | 0 | |
| 21 | 2007 | 0 | 6 | 0 | 0 | 879 | 0 | |
| 22 | 2008 | 0 | 5 | 0 | 0 | 885 | 0 | |
| 23 | 2009 | 0 | 5 | 0 | 0 | 890 | 0 | |
| 24 | 2010 | 0 | 4 | 0 | 0 | 894 | 0 | |
| 25 | 2011 | 0 | 4 | 0 | 0 | 898 | 0 | |
| 26 | 2012 | 0 | 4 | 0 | 0 | 901 | 0 | |
| 27 | 2013 | 0 | 3 | 0 | 0 | 904 | 0 | |
| 28 | 2014 | 0 | 3 | 0 | 0 | 907 | 0 | |
| 29 | 2015 | 0 | 3 | 0 | 0 | 910 | 0 | |
| 30 | 2016 | 0 | 2 | 0 | 0 | 912 | 0 | |
| 31 | 2017 | 0 | 2 | 0 | 0 | 914 | 0 | |

*Production Data Source: MNR Annuals 1981 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

Well No.: **T002478**

Well Name:

Status: **Active**

MNR Pool: **Arthur**

## Monthly Production vs Month + Forecast
*(since 1992)*

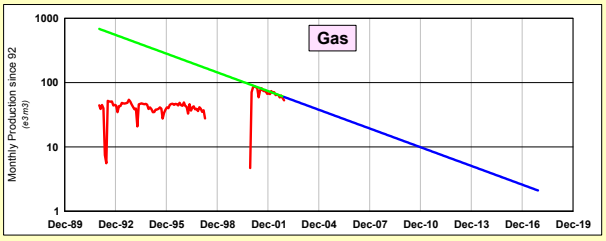
Well: **T002478**

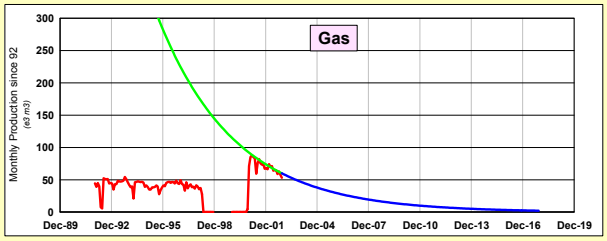
| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | ERR | m3 per m3 | | ERR | last year |
| 2002 Water/Oil ratio: | ERR | m3 per m3 | | ERR | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | 0.0000 | last 10 years |

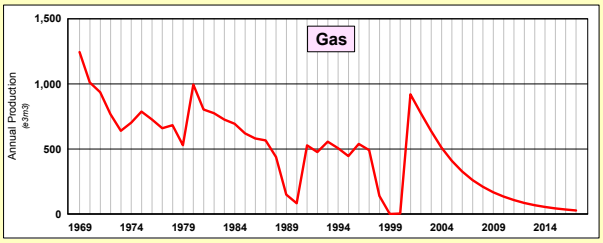
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **776** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **0** | m3 | **20,503** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **3,084** | e3m3 | **0** | m3 |
| Total Recovery: | **0** | m3 | **23,587** | e3m3 | **0** | m3 |
| Peak Rate: | 0.0 | m3/d | 3.4 | e3m3/d | based on annual | |
| Peak Rate: | | m3/d | 20.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | | m3/d | 2.8 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 2.1 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

**Basis--->** Gas

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100000000 | m3/m3 | | | |
| Start: | 60 | e3m3 per month | Start: | | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | 0.0184 | per month | Decline Factor: | 0.0184 | per month |




| Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 1 | 1969 | 0 | 1,245 | 0 | 0 | 1,245 | 0 | |
| 2 | 1970 | 0 | 1,011 | 0 | 0 | 2,255 | 0 | |
| 3 | 1971 | 0 | 936 | 0 | 0 | 3,191 | 0 | |
| 4 | 1972 | 0 | 768 | 0 | 0 | 3,959 | 0 | |
| 5 | 1973 | 0 | 640 | 0 | 0 | 4,599 | 0 | |
| 6 | 1974 | 0 | 702 | 0 | 0 | 5,301 | 0 | |
| 7 | 1975 | 0 | 787 | 0 | 0 | 6,089 | 0 | |
| 8 | 1976 | 0 | 727 | 0 | 0 | 6,815 | 0 | |
| 9 | 1977 | 0 | 659 | 0 | 0 | 7,475 | 0 | |
| 10 | 1978 | 0 | 683 | 0 | 0 | 8,157 | 0 | |
| 11 | 1979 | 0 | 529 | 0 | 0 | 8,686 | 0 | |
| 12 | 1980 | 0 | 996 | 0 | 0 | 9,682 | 0 | |
| 13 | 1981 | 0 | 803 | 0 | 0 | 10,486 | 0 | |
| 14 | 1982 | 0 | 776 | 0 | 0 | 11,261 | 0 | |
| 15 | 1983 | 0 | 725 | 0 | 0 | 11,987 | 0 | |
| 16 | 1984 | 0 | 694 | 0 | 0 | 12,680 | 0 | |
| 17 | 1985 | 0 | 620 | 0 | 0 | 13,300 | 0 | |
| 18 | 1986 | 0 | 581 | 0 | 0 | 13,882 | 0 | |
| 19 | 1987 | 0 | 567 | 0 | 0 | 14,448 | 0 | |
| 20 | 1988 | 0 | 438 | 0 | 0 | 14,887 | 0 | |
| 21 | 1989 | 0 | 149 | 0 | 0 | 15,036 | 0 | |
| 22 | 1990 | 0 | 83 | 0 | 0 | 15,119 | 0 | |
| 23 | 1991 | 0 | 529 | 0 | 0 | 15,647 | 0 | |
| 24 | 1992 | 0 | 476 | 0 | 0 | 16,124 | 0 | |
| 25 | 1993 | 0 | 557 | 0 | 0 | 16,680 | 0 | |
| 26 | 1994 | 0 | 506 | 0 | 0 | 17,187 | 0 | |
| 27 | 1995 | 0 | 446 | 0 | 0 | 17,632 | 0 | |
| 28 | 1996 | 0 | 540 | 0 | 0 | 18,172 | 0 | |
| 29 | 1997 | 0 | 491 | 0 | 0 | 18,663 | 0 | |
| 30 | 1998 | 0 | 140 | 0 | 0 | 18,802 | 0 | |
| 30 | 1999 | 0 | 0 | 0 | 0 | 18,802 | 0 | |
| 31 | 2000 | 0 | 5 | 0 | 0 | 18,807 | 0 | |
| 32 | 2001 | 0 | 920 | 0 | 0 | 19,727 | 0 | |
| 33 | 2002 | 0 | 776 | 0 | 0 | 20,503 | 0 | |
| 34 | 2003 | 0 | 639 | 0 | 0 | 21,142 | 0 | |
| 35 | 2004 | 0 | 511 | 0 | 0 | 21,654 | 0 | |
| 36 | 2005 | 0 | 409 | 0 | 0 | 22,063 | 0 | |
| 37 | 2006 | 0 | 327 | 0 | 0 | 22,390 | 0 | |
| 38 | 2007 | 0 | 262 | 0 | 0 | 22,652 | 0 | |
| 39 | 2008 | 0 | 209 | 0 | 0 | 22,862 | 0 | |
| 40 | 2009 | 0 | 168 | 0 | 0 | 23,029 | 0 | |
| 41 | 2010 | 0 | 134 | 0 | 0 | 23,163 | 0 | |
| 42 | 2011 | 0 | 107 | 0 | 0 | 23,271 | 0 | |
| 43 | 2012 | 0 | 86 | 0 | 0 | 23,356 | 0 | |
| 44 | 2013 | 0 | 69 | 0 | 0 | 23,425 | 0 | |
| 45 | 2014 | 0 | 55 | 0 | 0 | 23,480 | 0 | |
| 46 | 2015 | 0 | 44 | 0 | 0 | 23,524 | 0 | |
| 47 | 2016 | 0 | 35 | 0 | 0 | 23,559 | 0 | |
| 48 | 2017 | 0 | 28 | 0 | 0 | 23,587 | 0 | |

*Production Data Source: MNR Annuals 1969 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

Well No.: **T002433**

Well Name:

Status: **Active**

MNR Pool: **Arthur**

## Monthly Production vs Month + Forecast
*(since 1992)*

Well: **T002433**

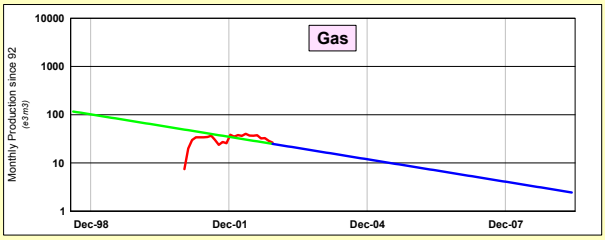
| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | ERR | m3 per m3 | | ERR | last year |
| 2002 Water/Oil ratio: | ERR | m3 per m3 | | ERR | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | 0.0000 | last 10 years |

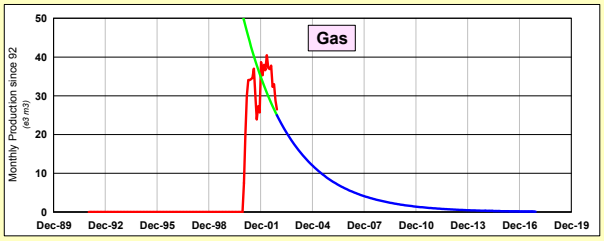
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **422** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **0** | m3 | **11,030** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **825** | e3m3 | **0** | m3 |
| Total Recovery: | **0** | m3 | **11,855** | e3m3 | **0** | m3 |
| Peak Rate: | 0.0 | m3/d | 2.1 | e3m3/d | based on annual | |
| Peak Rate: | 0.0 | m3/d | 18.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | | m3/d | 2.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 1.2 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

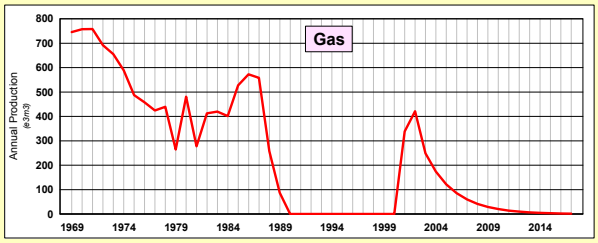
**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100000000 | m3/m3 | | | |
| Start: | 25 | e3m3 per month | Start: | | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | 0.0293 | per month | Decline Factor: | 0.0293 | per month |

| Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 1 | 1969 | 0 | 746 | 0 | 0 | 746 | 0 | |
| 2 | 1970 | 0 | 758 | 0 | 0 | 1,504 | 0 | |
| 3 | 1971 | 0 | 758 | 0 | 0 | 2,262 | 0 | |
| 4 | 1972 | 0 | 692 | 0 | 0 | 2,954 | 0 | |
| 5 | 1973 | 0 | 656 | 0 | 0 | 3,610 | 0 | |
| 6 | 1974 | 0 | 589 | 0 | 0 | 4,198 | 0 | |
| 7 | 1975 | 0 | 488 | 0 | 0 | 4,686 | 0 | |
| 8 | 1976 | 0 | 458 | 0 | 0 | 5,144 | 0 | |
| 9 | 1977 | 0 | 425 | 0 | 0 | 5,568 | 0 | |
| 10 | 1978 | 0 | 440 | 0 | 0 | 6,008 | 0 | |
| 11 | 1979 | 0 | 265 | 0 | 0 | 6,273 | 0 | |
| 12 | 1980 | 0 | 481 | 0 | 0 | 6,753 | 0 | |
| 13 | 1981 | 0 | 278 | 0 | 0 | 7,031 | 0 | |
| 14 | 1982 | 0 | 413 | 0 | 0 | 7,443 | 0 | |
| 15 | 1983 | 0 | 420 | 0 | 0 | 7,864 | 0 | |
| 16 | 1984 | 0 | 402 | 0 | 0 | 8,265 | 0 | |
| 17 | 1985 | 0 | 527 | 0 | 0 | 8,792 | 0 | |
| 18 | 1986 | 0 | 573 | 0 | 0 | 9,366 | 0 | |
| 19 | 1987 | 0 | 559 | 0 | 0 | 9,924 | 0 | |
| 20 | 1988 | 0 | 258 | 0 | 0 | 10,182 | 0 | |
| 21 | 1989 | 0 | 88 | 0 | 0 | 10,270 | 0 | |
| | 1990 | 0 | 0 | 0 | 0 | 10,270 | 0 | |
| | 1991 | 0 | 0 | 0 | 0 | 10,270 | 0 | |
| | 1992 | 0 | 0 | 0 | 0 | 10,270 | 0 | |
| | 1993 | 0 | 0 | 0 | 0 | 10,270 | 0 | |
| | 1994 | 0 | 0 | 0 | 0 | 10,270 | 0 | |
| | 1995 | 0 | 0 | 0 | 0 | 10,270 | 0 | |
| | 1996 | 0 | 0 | 0 | 0 | 10,270 | 0 | |
| | 1997 | 0 | 0 | 0 | 0 | 10,270 | 0 | |
| | 1998 | 0 | 0 | 0 | 0 | 10,270 | 0 | |
| | 1999 | 0 | 0 | 0 | 0 | 10,270 | 0 | |
| | 2000 | 0 | 0 | 0 | 0 | 10,270 | 0 | |
| 22 | 2001 | 0 | 339 | 0 | 0 | 10,609 | 0 | |
| 23 | 2002 | 0 | 422 | 0 | 0 | 11,030 | 0 | |
| 24 | 2003 | 0 | 249 | 0 | 0 | 11,279 | 0 | |
| 25 | 2004 | 0 | 174 | 0 | 0 | 11,453 | 0 | |
| 26 | 2005 | 0 | 122 | 0 | 0 | 11,575 | 0 | |
| 27 | 2006 | 0 | 85 | 0 | 0 | 11,660 | 0 | |
| 28 | 2007 | 0 | 60 | 0 | 0 | 11,720 | 0 | |
| 29 | 2008 | 0 | 42 | 0 | 0 | 11,761 | 0 | |
| 30 | 2009 | 0 | 29 | 0 | 0 | 11,791 | 0 | |
| 31 | 2010 | 0 | 20 | 0 | 0 | 11,811 | 0 | |
| 32 | 2011 | 0 | 14 | 0 | 0 | 11,826 | 0 | |
| 33 | 2012 | 0 | 10 | 0 | 0 | 11,836 | 0 | |
| 34 | 2013 | 0 | 7 | 0 | 0 | 11,843 | 0 | |
| 35 | 2014 | 0 | 5 | 0 | 0 | 11,847 | 0 | |
| 36 | 2015 | 0 | 3 | 0 | 0 | 11,851 | 0 | |
| 37 | 2016 | 0 | 2 | 0 | 0 | 11,853 | 0 | |
| 38 | 2017 | 0 | 2 | 0 | 0 | 11,855 | 0 | |




*Production Data Source: MNR Annuals 1969 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

Well No.: **T008538**

Well Name:

Status: **Active**

MNR Pool: **Colchester**

Well: **T008538**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 2.4685 | m3 per m3 | 1.2086 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,911** | m3/yr | **0** | e3m3/yr | **4,716** | m3/yr |
| Cumm to Date: | **7,278** | m3 | **0** | e3m3 | **8,796** | m3 |
| Remaining Recoverable: | **2,873** | m3 | **0** | e3m3 | **7,092** | m3 |
| Total Recovery: | **10,151** | m3 | **0** | e3m3 | **15,888** | m3 |
| Peak Rate: | 5.2 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 10.3 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 4.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 5.2 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 40% | | annually | | | |

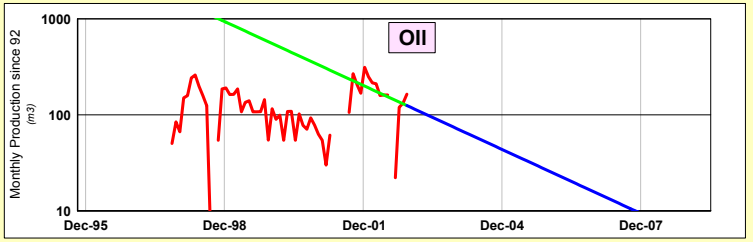
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1997 | 135 | 0 | 0 | 135 | 0 | 0 | |
| 2 | 1998 | 1,608 | 0 | 0 | 1,743 | 0 | 0 | |
| 3 | 1999 | 1,610 | 0 | 0 | 3,353 | 0 | 0 | |
| 4 | 2000 | 1,054 | 0 | 0 | 4,407 | 0 | 0 | |
| 5 | 2001 | 961 | 0 | 4,080 | 5,368 | 0 | 4,080 | |
| 6 | 2002 | 1,911 | 0 | 4,716 | 7,278 | 0 | 8,796 | |
| 7 | 2003 | 1,150 | 0 | 2,838 | 8,428 | 0 | 11,634 | |
| 8 | 2004 | 690 | 0 | 1,703 | 9,118 | 0 | 13,337 | |
| 9 | 2005 | 414 | 0 | 1,022 | 9,532 | 0 | 14,359 | |
| 10 | 2006 | 248 | 0 | 613 | 9,780 | 0 | 14,972 | |
| 11 | 2007 | 149 | 0 | 368 | 9,929 | 0 | 15,340 | |
| 12 | 2008 | 89 | 0 | 221 | 10,018 | 0 | 15,560 | |
| 13 | 2009 | 54 | 0 | 132 | 10,072 | 0 | 15,693 | |
| 14 | 2010 | 32 | 0 | 79 | 10,104 | 0 | 15,772 | |
| 15 | 2011 | 19 | 0 | 48 | 10,123 | 0 | 15,820 | |
| 16 | 2012 | 12 | 0 | 29 | 10,135 | 0 | 15,848 | |
| 17 | 2013 | 7 | 0 | 17 | 10,142 | 0 | 15,866 | |
| 18 | 2014 | 4 | 0 | 10 | 10,146 | 0 | 15,876 | |
| 19 | 2015 | 3 | 0 | 6 | 10,149 | 0 | 15,882 | |
| 20 | 2016 | 2 | 0 | 4 | 10,150 | 0 | 15,886 | |
| 21 | 2017 | 1 | 0 | 2 | 10,151 | 0 | 15,888 | |

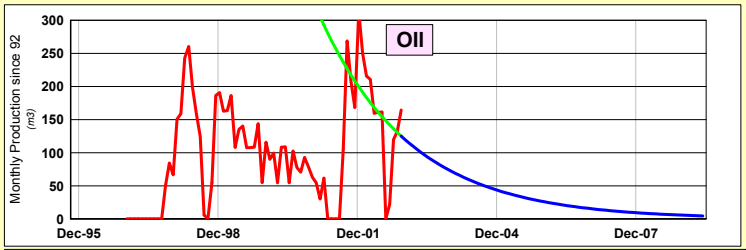
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

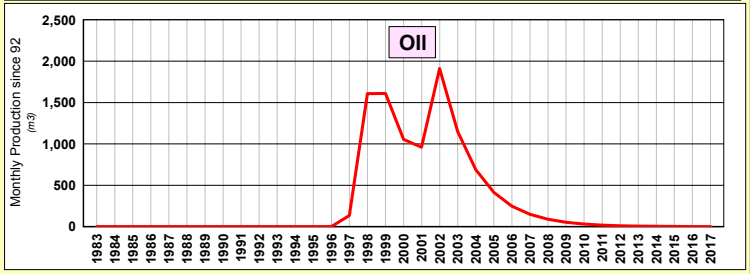
## Monthly Production vs Month + Forecast
*(since 1992)*

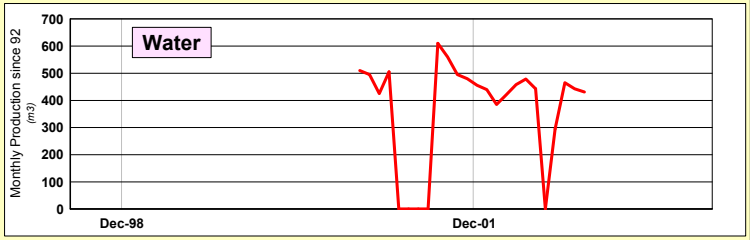
**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 0 | e3m3 per month | Start: | 125 | m3/mo. |
| Decline Rate: | 40% | per year | Decline Rate: | 40% | per year |
| Decline Factor: | **0.0417** | per month | Decline Factor: | **0.0417** | per month |



Well No.: **T007561**

Well Name: **Ram BP (Dev #1), Colchester South 5-15-V**

Status: **Active**

MNR Pool: **Colchester South 5-15-V**

Well: **T007561**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 2.9998 | m3 per m3 | | 2.4486 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | 0.0000 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **176** | m3/yr | **0** | e3m3/yr | **529** | m3/yr |
| Cumm to Date: | **3,263** | m3 | **0** | e3m3 | **7,990** | m3 |
| Remaining Recoverable: | **1,081** | m3 | **0** | e3m3 | **3,241** | m3 |
| Total Recovery: | **4,344** | m3 | **0** | e3m3 | **11,232** | m3 |
| Peak Rate: | 1.4 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 3.0 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.1 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.5 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

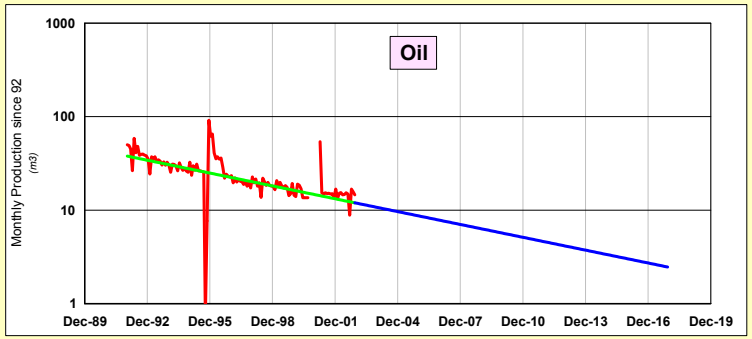
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1992 | 514 | 0 | 1,028 | 514 | 0 | 1,028 | 0 |
| 2 | 1993 | 397 | 0 | 804 | 911 | 0 | 1,832 | 0 |
| 3 | 1994 | 342 | 0 | 683 | 1,253 | 0 | 2,515 | 0 |
| 4 | 1995 | 348 | 0 | 694 | 1,601 | 0 | 3,209 | 0 |
| 5 | 1996 | 433 | 0 | 960 | 2,034 | 0 | 4,170 | 0 |
| 6 | 1997 | 241 | 0 | 714 | 2,276 | 0 | 4,884 | 0 |
| 7 | 1998 | 232 | 0 | 697 | 2,508 | 0 | 5,580 | 0 |
| 8 | 1999 | 213 | 0 | 640 | 2,721 | 0 | 6,220 | 0 |
| 9 | 2000 | 138 | 0 | 686 | 2,859 | 0 | 6,906 | 0 |
| 10 | 2001 | 228 | 0 | 555 | 3,087 | 0 | 7,461 | 0 |
| 11 | 2002 | 176 | 0 | 529 | 3,263 | 0 | 7,990 | 0 |
| 12 | 2003 | 136 | 0 | 408 | 3,399 | 0 | 8,398 | 0 |
| 13 | 2004 | 122 | 0 | 367 | 3,522 | 0 | 8,766 | 0 |
| 14 | 2005 | 110 | 0 | 331 | 3,632 | 0 | 9,096 | 0 |
| 15 | 2006 | 99 | 0 | 298 | 3,731 | 0 | 9,394 | 0 |
| 16 | 2007 | 89 | 0 | 268 | 3,820 | 0 | 9,662 | 0 |
| 17 | 2008 | 80 | 0 | 241 | 3,901 | 0 | 9,903 | 0 |
| 18 | 2009 | 72 | 0 | 217 | 3,973 | 0 | 10,120 | 0 |
| 19 | 2010 | 65 | 0 | 195 | 4,038 | 0 | 10,315 | 0 |
| 20 | 2011 | 59 | 0 | 176 | 4,097 | 0 | 10,491 | 0 |
| 21 | 2012 | 53 | 0 | 158 | 4,149 | 0 | 10,649 | 0 |
| 22 | 2013 | 47 | 0 | 142 | 4,197 | 0 | 10,791 | 0 |
| 23 | 2014 | 43 | 0 | 128 | 4,240 | 0 | 10,919 | 0 |
| 24 | 2015 | 38 | 0 | 115 | 4,278 | 0 | 11,035 | 0 |
| 25 | 2016 | 35 | 0 | 104 | 4,313 | 0 | 11,138 | 0 |
| 26 | 2017 | 31 | 0 | 93 | 4,344 | 0 | 11,232 | 0 |

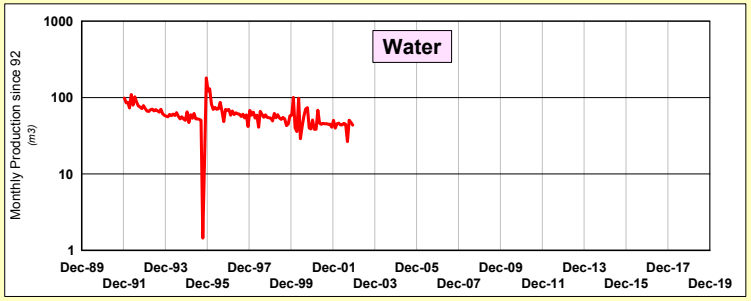
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 0 | e3m3 per month | Start: | 12 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T007207**

Well Name: **PPC 10, Dover 1 - 6 - IIIE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 128824 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0000 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 344 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 65 | m3 | 21,155 | e3m3 | 0 | m3 |
| Remaining Recoverable: | 0 | m3 | 2,251 | e3m3 | 0 | m3 |
| Total recovery: | 65 | m3 | 23,406 | e3m3 | 0 | m3 |
| Peak Rate: | 0.2 | m3/d | 12.5 | e3m3/d | based on annual | |
| Peak Rate: | 0.2 | m3/d | 149.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 12.5 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.9 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

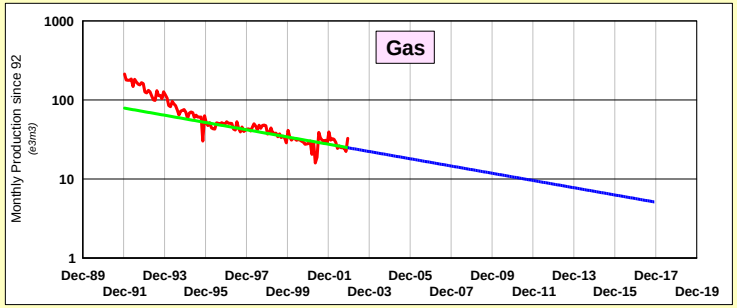
| Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1988 | 0 | 2,723 | 0 | 0 | 2,723 | 0 | |
| 2 | 1989 | 0 | 4,560 | 0 | 0 | 7,283 | 0 | |
| 3 | 1990 | 0 | 3,111 | 0 | 0 | 10,394 | 0 | |
| 4 | 1991 | 0 | 2,336 | 0 | 0 | 12,729 | 0 | |
| 5 | 1992 | 56 | 2,075 | 0 | 56 | 14,804 | 0 | 37,317 |
| 6 | 1993 | 10 | 1,411 | 0 | 65 | 16,216 | 0 | 144,010 |
| 7 | 1994 | 0 | 1,021 | 0 | 65 | 17,237 | 0 | |
| 8 | 1995 | 0 | 738 | 0 | 65 | 17,974 | 0 | |
| 9 | 1996 | 0 | 585 | 0 | 65 | 18,559 | 0 | |
| 10 | 1997 | 0 | 553 | 0 | 65 | 19,112 | 0 | |
| 11 | 1998 | 0 | 545 | 0 | 65 | 19,658 | 0 | |
| 12 | 1999 | 0 | 436 | 0 | 65 | 20,094 | 0 | |
| 13 | 2000 | 0 | 381 | 0 | 65 | 20,475 | 0 | |
| 14 | 2001 | 0 | 336 | 0 | 65 | 20,810 | 0 | |
| 15 | 2002 | 0 | 344 | 0 | 65 | 21,155 | 0 | |
| 16 | 2003 | 0 | 283 | 0 | 65 | 21,438 | 0 | |
| 17 | 2004 | 0 | 255 | 0 | 65 | 21,693 | 0 | |
| 18 | 2005 | 0 | 230 | 0 | 65 | 21,923 | 0 | |
| 19 | 2006 | 0 | 207 | 0 | 65 | 22,129 | 0 | |
| 20 | 2007 | 0 | 186 | 0 | 65 | 22,315 | 0 | |
| 21 | 2008 | 0 | 167 | 0 | 65 | 22,483 | 0 | |
| 22 | 2009 | 0 | 151 | 0 | 65 | 22,634 | 0 | |
| 23 | 2010 | 0 | 136 | 0 | 65 | 22,769 | 0 | |
| 24 | 2011 | 0 | 122 | 0 | 65 | 22,891 | 0 | |
| 25 | 2012 | 0 | 110 | 0 | 65 | 23,001 | 0 | |
| 26 | 2013 | 0 | 99 | 0 | 65 | 23,100 | 0 | |
| 27 | 2014 | 0 | 89 | 0 | 65 | 23,189 | 0 | |
| 28 | 2015 | 0 | 80 | 0 | 65 | 23,269 | 0 | |
| 29 | 2016 | 0 | 72 | 0 | 65 | 23,341 | 0 | |
| 30 | 2017 | 0 | 65 | 0 | 65 | 23,406 | 0 | |

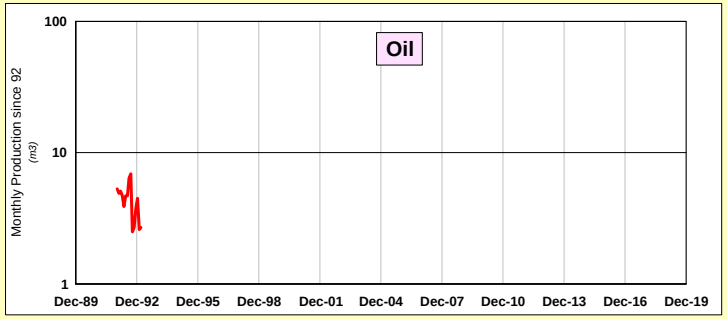
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100000000 | m3/m3 | | | |
| Start: | 25 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | 0.0087 | per month | Decline Factor: | 0.0087 | per month |



Well No.: **T006778**

Well Name: **Rowe Ram No. 9, Dover 6 - 7 - IVE**

Status: **Suspended Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | | |
|---|---|---|---|---|---|---|
| Historical GOR: | 53036 | m3 per m3 | | | 0 | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | | | 0.0000 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | | 0.0000 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **27** | m3 | **9,469** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total recovery: | **27** | m3 | **9,469** | e3m3 | **0** | m3 |

| | | | | | |
|---|---|---|---|---|---|
| Peak Rate: | 0.1 | m3/d | 6.1 | e3m3/d | based on annual |
| Peak Rate: | 0.1 | m3/d | 72.8 | e3m3/d | since '93 based on monthly |
| Second Year Production: | 0.0 | m3/d | 0.5 | e3m3/d | per day based on annual |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | |
| Current decline rate: | 0% | | annually | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1986 | 0 | 109 | 0 | 0 | 109 | 0 | |
| 2 | 1987 | 0 | 193 | 0 | 0 | 302 | 0 | |
| 3 | 1988 | 0 | 2,213 | 0 | 0 | 2,514 | 0 | |
| 4 | 1989 | 0 | 1,944 | 0 | 0 | 4,458 | 0 | |
| 5 | 1990 | 0 | 1,960 | 0 | 0 | 6,418 | 0 | |
| 6 | 1991 | 0 | 1,619 | 0 | 0 | 8,038 | 0 | |
| 7 | 1992 | 23 | 849 | 0 | 23 | 8,886 | 0 | 36,900 |
| 8 | 1993 | 4 | 241 | 0 | 27 | 9,127 | 0 | 60,200 |
| 9 | 1994 | 0 | 160 | 0 | 27 | 9,288 | 0 | |
| 10 | 1995 | 0 | 75 | 0 | 27 | 9,363 | 0 | |
| 11 | 1996 | 0 | 14 | 0 | 27 | 9,377 | 0 | |
| 12 | 1997 | 0 | 26 | 0 | 27 | 9,403 | 0 | |
| 13 | 1998 | 0 | 50 | 0 | 27 | 9,454 | 0 | |
| 14 | 1999 | 0 | 16 | 0 | 27 | 9,469 | 0 | |
| 14 | 2000 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2001 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2002 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2003 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2004 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2005 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2006 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2007 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2008 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2009 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2010 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2011 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2012 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2013 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2014 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2015 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2016 | 0 | 0 | 0 | 27 | 9,469 | 0 | |
| 14 | 2017 | 0 | 0 | 0 | 27 | 9,469 | 0 | |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 1000000 | m3/m3 | | | |
| Start: | 0 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | **0.0000** | per month | Decline Factor: | **0.0000** | per month |

# Gas Wells

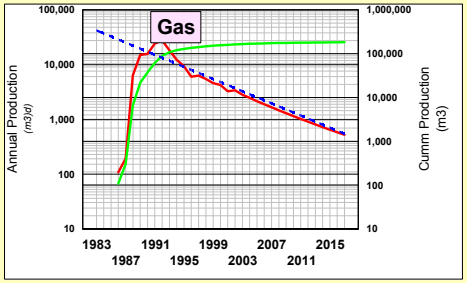
MNR Pool: **Dover 7-5-VE**

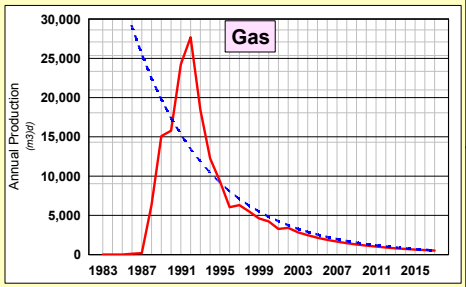
TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

No of Wells: **11**

## Annual & Cumulative Production
*(since 1983)*



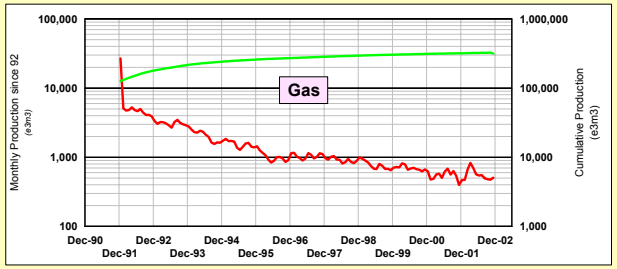

**12%** Pool Decline

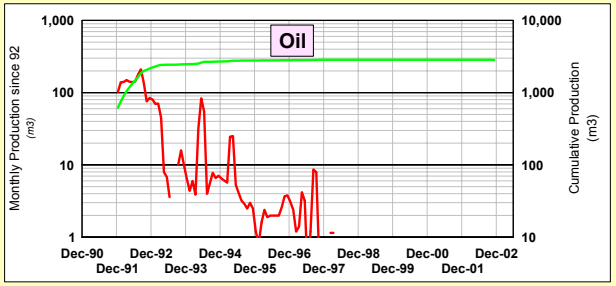
| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

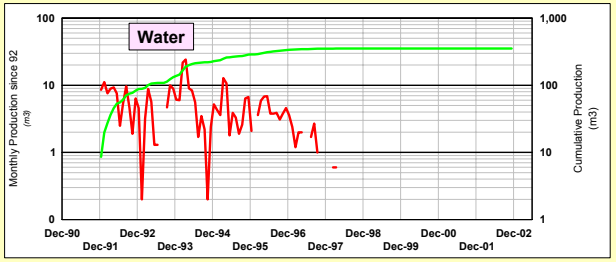
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 3,408 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 1,428 | m3 | 162,932 | e3m3 | 176 | m3 |
| Remaining Recoverable: | 37 | m3 | 20,156 | e3m3 | 0 | m3 |
| Total recovery: | 1,465 | m3 | 183,088 | e3m3 | 176 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 0 | m3/d | 9 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1986 | 0 | 109 | 0 | 0 | 109 | 0 | |
| 1 | 2 | 1987 | 0 | 193 | 0 | 0 | 302 | 0 | |
| 4 | 3 | 1988 | 0 | 6,340 | 0 | 0 | 6,642 | 0 | |
| 5 | 4 | 1989 | 100 | 15,094 | 0 | 100 | 21,736 | 0 | |
| 6 | 5 | 1990 | 143 | 15,794 | 0 | 243 | 37,530 | 0 | |
| 9 | 6 | 1991 | 29 | 24,250 | 0 | 272 | 61,780 | 0 | |
| 11 | 7 | 1992 | 828 | 27,692 | 44 | 1,100 | 89,471 | 44 | |
| 10 | 8 | 1993 | 142 | 18,464 | 24 | 1,242 | 107,935 | 68 | |
| 10 | 9 | 1994 | 111 | 12,267 | 45 | 1,353 | 120,202 | 113 | |
| 10 | 10 | 1995 | 44 | 9,362 | 32 | 1,397 | 129,564 | 144 | |
| 10 | 11 | 1996 | 14 | 6,042 | 24 | 1,411 | 135,607 | 169 | |
| 9 | 12 | 1997 | 16 | 6,308 | 7 | 1,427 | 141,915 | 176 | |
| 10 | 13 | 1998 | 1 | 5,489 | 1 | 1,428 | 147,404 | 176 | |
| 10 | 14 | 1999 | 0 | 4,620 | 0 | 1,428 | 152,024 | 176 | |
| 8 | 15 | 2000 | 0 | 4,234 | 0 | 1,428 | 156,258 | 176 | |
| 7 | 16 | 2001 | 0 | 3,266 | 0 | 1,428 | 159,524 | 176 | |
| 7 | 17 | 2002 | 0 | 3,408 | 0 | 1,428 | 162,932 | 176 | |
| | 18 | 2003 | 6 | 2,838 | 0 | 1,434 | 165,770 | 176 | |
| | 19 | 2004 | 5 | 2,472 | 0 | 1,439 | 168,242 | 176 | |
| | 20 | 2005 | 4 | 2,159 | 0 | 1,444 | 170,401 | 176 | |
| | 21 | 2006 | 4 | 1,892 | 0 | 1,447 | 172,294 | 176 | |
| | 22 | 2007 | 3 | 1,663 | 0 | 1,450 | 173,957 | 176 | |
| | 23 | 2008 | 3 | 1,466 | 0 | 1,453 | 175,423 | 176 | |
| | 24 | 2009 | 2 | 1,296 | 0 | 1,455 | 176,719 | 176 | |
| | 25 | 2010 | 2 | 1,148 | 0 | 1,457 | 177,867 | 176 | |
| | 26 | 2011 | 2 | 1,020 | 0 | 1,459 | 178,887 | 176 | |
| | 27 | 2012 | 1 | 908 | 0 | 1,461 | 179,796 | 176 | |
| | 28 | 2013 | 1 | 810 | 0 | 1,462 | 180,606 | 176 | |
| | 29 | 2014 | 1 | 725 | 0 | 1,463 | 181,331 | 176 | |
| | 30 | 2015 | 1 | 649 | 0 | 1,464 | 181,980 | 176 | |
| | 31 | 2016 | 1 | 583 | 0 | 1,465 | 182,563 | 176 | |
| | 32 | 2017 | 1 | 524 | 0 | 1,465 | 183,088 | 176 | |
| | | To date: | 1,428 | 162,932 | 176 | | | | 87.5096 |

## Monthly Production vs Month
*(1992 to 2002)*



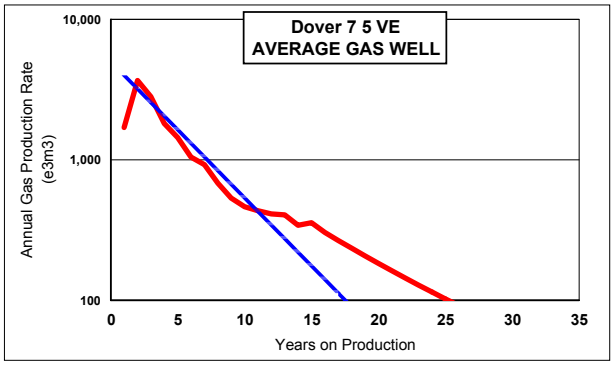
# Dover 7-5-VE

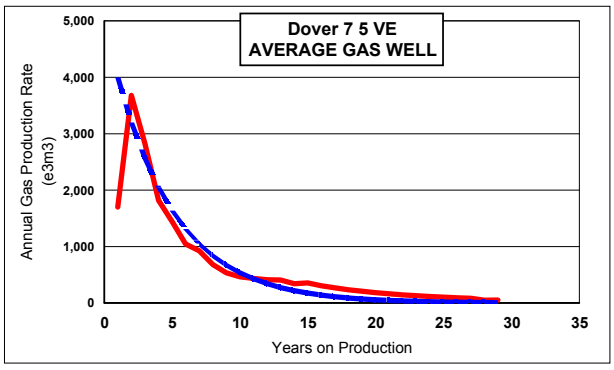
# Average Gas Well

GOR: 87.5096
WOR: 0.1526

| Prod Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|
| 1 | 46 | 4,000 | 7 | 46 | 4,000 | 7 | 87,510 |
| 2 | 37 | 3,200 | 6 | 82 | 7,200 | 13 | 87,510 |
| 3 | 29 | 2,560 | 4 | 112 | 9,760 | 17 | 87,510 |
| 4 | 23 | 2,048 | 4 | 135 | 11,808 | 21 | 87,510 |
| 5 | 19 | 1,638 | 3 | 154 | 13,446 | 23 | 87,510 |
| 6 | 15 | 1,311 | 2 | 169 | 14,757 | 26 | 87,510 |
| 7 | 12 | 1,049 | 2 | 181 | 15,806 | 28 | 87,510 |
| 8 | 10 | 839 | 1 | 190 | 16,645 | 29 | 87,510 |
| 9 | 8 | 671 | 1 | 198 | 17,316 | 30 | 87,510 |
| 10 | 6 | 537 | 1 | 204 | 17,853 | 31 | 87,510 |
| 11 | 5 | 429 | 1 | 209 | 18,282 | 32 | 87,510 |
| 12 | 4 | 344 | 1 | 213 | 18,626 | 32 | 87,510 |
| 13 | 3 | 275 | 0 | 216 | 18,900 | 33 | 87,510 |
| 14 | 3 | 220 | 0 | 218 | 19,120 | 33 | 87,510 |
| 15 | 2 | 176 | 0 | 221 | 19,296 | 34 | 87,510 |
| 16 | 2 | 141 | 0 | 222 | 19,437 | 34 | 87,510 |
| 17 | 1 | 113 | 0 | 223 | 19,550 | 34 | 87,510 |
| 18 | 1 | 90 | 0 | 224 | 19,640 | 34 | 87,510 |
| 19 | 1 | 72 | 0 | 225 | 19,712 | 34 | 87,510 |
| 20 | 1 | 58 | 0 | 226 | 19,769 | 34 | 87,510 |
| 21 | 1 | 46 | 0 | 226 | 19,816 | 35 | 87,510 |
| 22 | 0 | 37 | 0 | 227 | 19,852 | 35 | 87,510 |
| 23 | 0 | 30 | 0 | 227 | 19,882 | 35 | 87,510 |
| 24 | 0 | 24 | 0 | 227 | 19,906 | 35 | 87,510 |
| 25 | 0 | 19 | 0 | 228 | 19,924 | 35 | 87,510 |
| 26 | 0 | 15 | 0 | 228 | 19,940 | 35 | 87,510 |
| 27 | 0 | 12 | 0 | 228 | 19,952 | 35 | 87,510 |
| 28 | 0 | 10 | 0 | 228 | 19,961 | 35 | 87,510 |
| 29 | 0 | 8 | 0 | 228 | 19,969 | 35 | 87,510 |
| | 228 | 19,969 | 35 | | | | |

| | | |
|---|---|---|
| Start: | 4000 | m3 per yearh |
| Decline Rate | 20% | per year |
| Decline Facto | 0.0184 | per month |



Well No.: **T007859**

Well Name: **PPC/RAM 39, Dover 2 - 5 - IVE**

Status: **Abandoned Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | | |
|---|---|---|---|---|---|---|
| Historical GOR: | 39031 | m3 per m3 | | | 0 | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | | | 0.0000 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | | 0.0000 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 0 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 10 | m3 | 383 | e3m3 | 0 | m3 |
| Remaining Recoverable: | 0 | m3 | 0 | e3m3 | 0 | m3 |
| Total recovery: | 10 | m3 | 383 | e3m3 | 0 | m3 |
| Peak Rate: | 0.0 | m3/d | 1.0 | e3m3/d | based on annual | |
| Peak Rate: | 0.1 | m3/d | 5.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

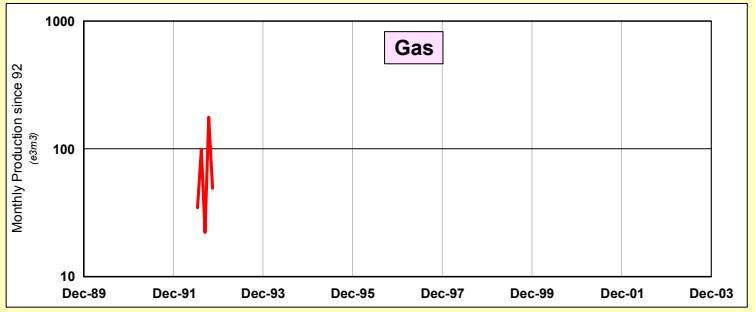
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1992 | 10 | 383 | 0 | 10 | 383 | 0 | 39,031 |
| 1 | 1993 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 1994 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 1995 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 1996 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 1997 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 1998 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 1999 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2000 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2001 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2002 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2003 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2004 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2005 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2006 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2007 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2008 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2009 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2010 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2011 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2012 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2013 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2014 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2015 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2016 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |
| 1 | 2017 | 0 | 0 | 0 | 10 | 383 | 0 | ERR |

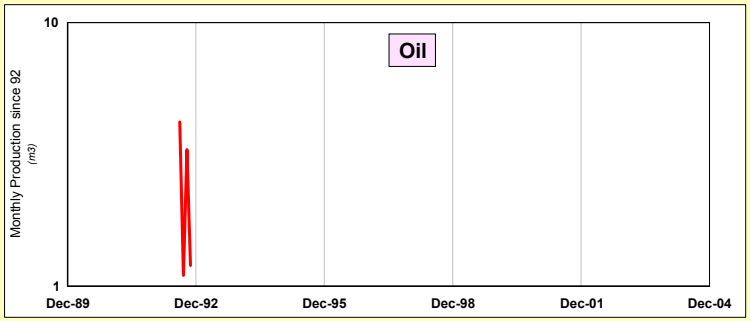
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100000 | m3/m3 | | | |
| Start: | 0 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | 0.0000 | per month | Decline Factor: | 0.0000 | per month |



Well No.: **T007857**

Well Name: **PPC/Ram 41, Dover 7 - 6 - IVE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 86253 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0000 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **136** | m3 | **11,769** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total recovery: | **136** | m3 | **11,769** | e3m3 | **0** | m3 |
| Peak Rate: | 0.3 | m3/d | 10.5 | e3m3/d | based on annual | |
| Peak Rate: | 0.6 | m3/d | 19.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 8.3 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

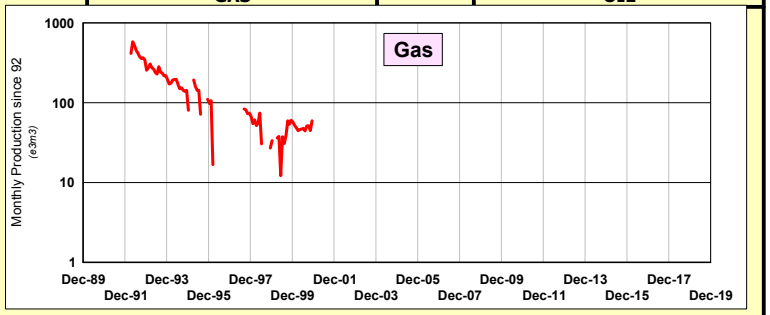
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1992 | 114 | 3,832 | 0 | 114 | 3,832 | 0 | 33,500 |
| 2 | 1993 | 16 | 3,044 | 0 | 131 | 6,877 | 0 | 186,767 |
| 3 | 1994 | 0 | 2,027 | 0 | 131 | 8,904 | 0 | ERR |
| 4 | 1995 | 0 | 903 | 0 | 131 | 9,806 | 0 | ERR |
| 5 | 1996 | 0 | 231 | 0 | 131 | 10,037 | 0 | ERR |
| 6 | 1997 | 6 | 313 | 0 | 136 | 10,350 | 0 | 54,407 |
| 7 | 1998 | 0 | 423 | 0 | 136 | 10,773 | 0 | ERR |
| 8 | 1999 | 0 | 401 | 0 | 136 | 11,174 | 0 | ERR |
| 9 | 2000 | 0 | 595 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2001 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2002 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2003 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2004 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2005 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2006 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2007 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2008 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2009 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2010 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2011 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2012 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2013 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2014 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2015 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2016 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |
| 9 | 2017 | 0 | 0 | 0 | 136 | 11,769 | 0 | ERR |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
***(since 1992)***

**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 10000000 | m3/m3 | | | |
| Start: | 0 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | **0.0000** | per month | Decline Factor: | **0.0000** | per month |



Well No.: **T007811**

Well Name: **PPC/RAM 34, Dover 8 - 4 - VE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 119946 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0000 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **1,049** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **243** | m3 | **34,776** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **7,654** | e3m3 | **0** | m3 |
| Total recovery: | **243** | m3 | **42,430** | e3m3 | **0** | m3 |
| Peak Rate: | 0.6 | m3/d | 22.1 | e3m3/d | based on annual | |
| Peak Rate: | 0.8 | m3/d | 184.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.6 | m3/d | 22.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 2.9 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

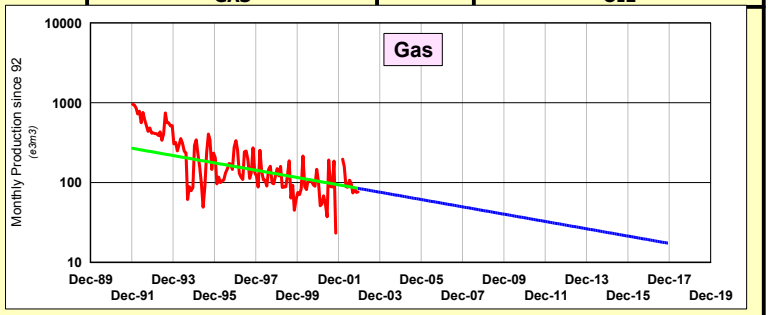
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1991 | 0 | 5,617 | 0 | 0 | 5,617 | 0 | ERR |
| 2 | 1992 | 221 | 8,057 | 0 | 221 | 13,673 | 0 | 36,488 |
| 3 | 1993 | 22 | 5,710 | 0 | 243 | 19,383 | 0 | 256,063 |
| 4 | 1994 | 0 | 2,642 | 0 | 243 | 22,025 | 0 | ERR |
| 5 | 1995 | 0 | 2,618 | 0 | 243 | 24,643 | 0 | ERR |
| 6 | 1996 | 0 | 1,781 | 0 | 243 | 26,424 | 0 | ERR |
| 7 | 1997 | 0 | 2,290 | 0 | 243 | 28,714 | 0 | ERR |
| 8 | 1998 | 0 | 1,530 | 0 | 243 | 30,244 | 0 | ERR |
| 9 | 1999 | 0 | 1,269 | 0 | 243 | 31,513 | 0 | ERR |
| 10 | 2000 | 0 | 1,266 | 0 | 243 | 32,779 | 0 | ERR |
| 11 | 2001 | 0 | 947 | 0 | 243 | 33,726 | 0 | ERR |
| 12 | 2002 | 0 | 1,049 | 0 | 243 | 34,776 | 0 | ERR |
| 13 | 2003 | 0 | 964 | 0 | 243 | 35,739 | 0 | ********** |
| 14 | 2004 | 0 | 867 | 0 | 243 | 36,607 | 0 | ********** |
| 15 | 2005 | 0 | 781 | 0 | 243 | 37,388 | 0 | ********** |
| 16 | 2006 | 0 | 703 | 0 | 243 | 38,090 | 0 | ********** |
| 17 | 2007 | 0 | 632 | 0 | 243 | 38,723 | 0 | ********** |
| 18 | 2008 | 0 | 569 | 0 | 243 | 39,292 | 0 | ********** |
| 19 | 2009 | 0 | 512 | 0 | 243 | 39,804 | 0 | ********** |
| 20 | 2010 | 0 | 461 | 0 | 243 | 40,265 | 0 | ********** |
| 21 | 2011 | 0 | 415 | 0 | 243 | 40,680 | 0 | ********** |
| 22 | 2012 | 0 | 373 | 0 | 243 | 41,053 | 0 | ********** |
| 23 | 2013 | 0 | 336 | 0 | 243 | 41,390 | 0 | ********** |
| 24 | 2014 | 0 | 302 | 0 | 243 | 41,692 | 0 | ********** |
| 25 | 2015 | 0 | 272 | 0 | 243 | 41,964 | 0 | ********** |
| 26 | 2016 | 0 | 245 | 0 | 243 | 42,209 | 0 | ********** |
| 27 | 2017 | 0 | 221 | 0 | 243 | 42,430 | 0 | ********** |

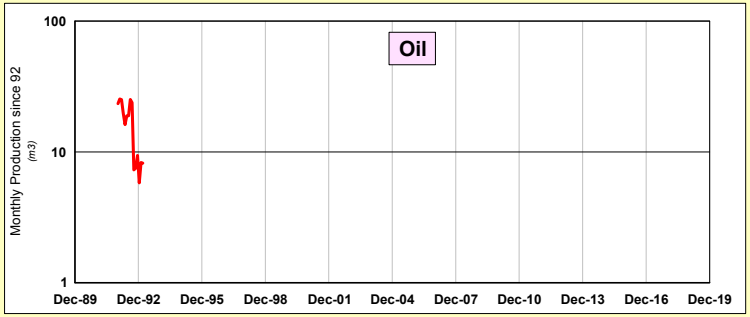
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Gas**

| | | | | | |
|---|---|---|---|---|---|
| GOR | 100000000 | m3/m3 | | | |
| Start: | 85 | e3m3 per month | | Start: | 0 | m3/mo. |
| Decline Rate: | 10% | per year | | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | | Decline Factor: | **0.0087** | per month |
| **GAS** | | | | **OIL** | | |



Well No.: **T007793**

Well Name: **PPC/RAM 29, Dover 3 - 4 - IVE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 147704 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0000 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **698** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **105** | m3 | **16,204** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **2,570** | e3m3 | **0** | m3 |
| Total recovery: | **105** | m3 | **18,774** | e3m3 | **0** | m3 |
| Peak Rate: | 0.2 | m3/d | 9.7 | e3m3/d | based on annual | |
| Peak Rate: | 0.4 | m3/d | 21.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.2 | m3/d | 9.7 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 1.9 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

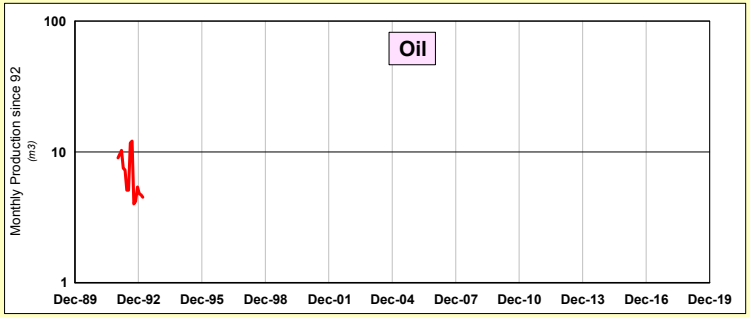
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1991 | 0 | 650 | 0 | 0 | 650 | 0 | |
| 2 | 1992 | 91 | 3,550 | 0 | 91 | 4,200 | 0 | 38,881 |
| 3 | 1993 | 14 | 2,503 | 0 | 105 | 6,703 | 0 | 178,771 |
| 4 | 1994 | 0 | 1,913 | 0 | 105 | 8,616 | 0 | |
| 5 | 1995 | 0 | 1,380 | 0 | 105 | 9,996 | 0 | |
| 6 | 1996 | 0 | 1,145 | 0 | 105 | 11,141 | 0 | |
| 7 | 1997 | 0 | 1,193 | 0 | 105 | 12,335 | 0 | |
| 8 | 1998 | 0 | 949 | 0 | 105 | 13,283 | 0 | |
| 9 | 1999 | 0 | 829 | 0 | 105 | 14,112 | 0 | |
| 10 | 2000 | 0 | 621 | 0 | 105 | 14,734 | 0 | |
| 11 | 2001 | 0 | 772 | 0 | 105 | 15,505 | 0 | |
| 12 | 2002 | 0 | 698 | 0 | 105 | 16,204 | 0 | |
| 13 | 2003 | 0 | 533 | 0 | 105 | 16,736 | 0 | |
| 14 | 2004 | 0 | 426 | 0 | 105 | 17,163 | 0 | |
| 15 | 2005 | 0 | 341 | 0 | 105 | 17,504 | 0 | |
| 16 | 2006 | 0 | 273 | 0 | 105 | 17,776 | 0 | |
| 17 | 2007 | 0 | 218 | 0 | 105 | 17,995 | 0 | |
| 18 | 2008 | 0 | 175 | 0 | 105 | 18,169 | 0 | |
| 19 | 2009 | 0 | 140 | 0 | 105 | 18,309 | 0 | |
| 20 | 2010 | 0 | 112 | 0 | 105 | 18,421 | 0 | |
| 21 | 2011 | 0 | 89 | 0 | 105 | 18,510 | 0 | |
| 22 | 2012 | 0 | 72 | 0 | 105 | 18,582 | 0 | |
| 23 | 2013 | 0 | 57 | 0 | 105 | 18,639 | 0 | |
| 24 | 2014 | 0 | 46 | 0 | 105 | 18,685 | 0 | |
| 25 | 2015 | 0 | 37 | 0 | 105 | 18,721 | 0 | |
| 26 | 2016 | 0 | 29 | 0 | 105 | 18,750 | 0 | |
| 27 | 2017 | 0 | 23 | 0 | 105 | 18,774 | 0 | |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100000000 | m3/m3 | | | |
| Start: | 50 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007714**

Well Name: **PPC/RAM 22, Dover 2 - 1 - VE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 347391 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0000 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 264 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 10 | m3 | 4,124 | e3m3 | 0 | m3 |
| Remaining Recoverable: | 2 | m3 | 2,381 | e3m3 | 0 | m3 |
| Total recovery: | 12 | m3 | 6,505 | e3m3 | 0 | m3 |
| Peak Rate: | 0.0 | m3/d | 1.8 | e3m3/d | based on annual | |
| Peak Rate: | 0.0 | m3/d | 21.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 1.8 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.7 | e3m3/d | | |
| Current decline rate: | 5% | | annually | | | |

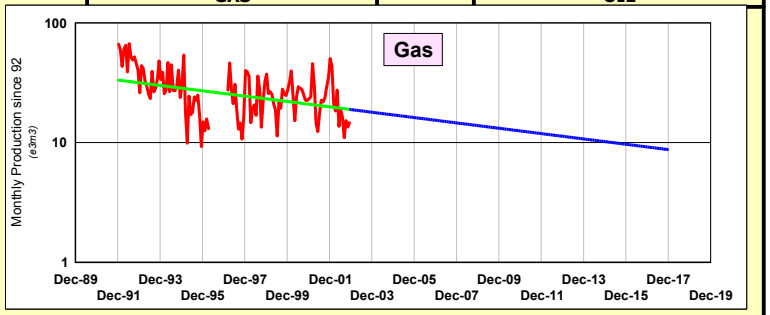
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1991 | 0 | 650 | 0 | 0 | 650 | 0 | ERR |
| 2 | 1992 | 7 | 640 | 0 | 7 | 1,291 | 0 | 88,944 |
| 3 | 1993 | 3 | 399 | 0 | 10 | 1,690 | 0 | 142,607 |
| 4 | 1994 | 0 | 392 | 0 | 10 | 2,082 | 0 | ERR |
| 5 | 1995 | 0 | 270 | 0 | 10 | 2,351 | 0 | ERR |
| 6 | 1996 | 0 | 56 | 0 | 10 | 2,408 | 0 | ERR |
| 7 | 1997 | 0 | 227 | 0 | 10 | 2,635 | 0 | ERR |
| 8 | 1998 | 0 | 319 | 0 | 10 | 2,954 | 0 | ERR |
| 9 | 1999 | 0 | 286 | 0 | 10 | 3,240 | 0 | ERR |
| 10 | 2000 | 0 | 320 | 0 | 10 | 3,560 | 0 | ERR |
| 11 | 2001 | 0 | 300 | 0 | 10 | 3,860 | 0 | ERR |
| 12 | 2002 | 0 | 264 | 0 | 10 | 4,124 | 0 | ERR |
| 13 | 2003 | 0 | 222 | 0 | 10 | 4,346 | 0 | 1,000,000 |
| 14 | 2004 | 0 | 211 | 0 | 10 | 4,557 | 0 | 1,000,000 |
| 15 | 2005 | 0 | 200 | 0 | 11 | 4,757 | 0 | 1,000,000 |
| 16 | 2006 | 0 | 190 | 0 | 11 | 4,947 | 0 | 1,000,000 |
| 17 | 2007 | 0 | 181 | 0 | 11 | 5,128 | 0 | 1,000,000 |
| 18 | 2008 | 0 | 172 | 0 | 11 | 5,299 | 0 | 1,000,000 |
| 19 | 2009 | 0 | 163 | 0 | 11 | 5,462 | 0 | 1,000,000 |
| 20 | 2010 | 0 | 155 | 0 | 11 | 5,617 | 0 | 1,000,000 |
| 21 | 2011 | 0 | 147 | 0 | 12 | 5,764 | 0 | 1,000,000 |
| 22 | 2012 | 0 | 140 | 0 | 12 | 5,904 | 0 | 1,000,000 |
| 23 | 2013 | 0 | 133 | 0 | 12 | 6,037 | 0 | 1,000,000 |
| 24 | 2014 | 0 | 126 | 0 | 12 | 6,163 | 0 | 1,000,000 |
| 25 | 2015 | 0 | 120 | 0 | 12 | 6,283 | 0 | 1,000,000 |
| 26 | 2016 | 0 | 114 | 0 | 12 | 6,397 | 0 | 1,000,000 |
| 27 | 2017 | 0 | 108 | 0 | 12 | 6,505 | 0 | 1,000,000 |

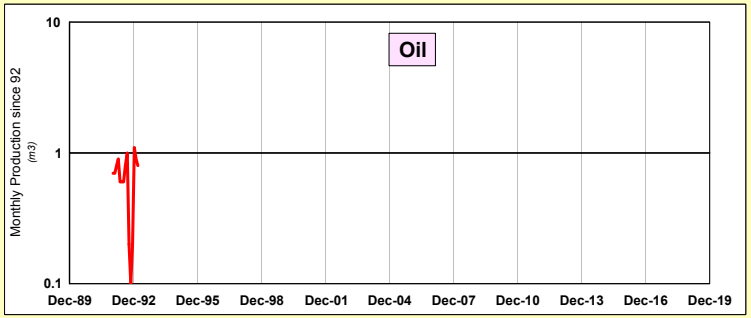
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 1000000 | m3/m3 | | | |
| Start: | 19 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 5% | per year | Decline Rate: | 5% | per year |
| Decline Factor: | 0.0043 | per month | Decline Factor: | 0.0043 | per month |



Well No.: **T007641**

Well Name: **PPC/Ram 23, Dover 7 - 2 - VE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 121702 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | | 0.0000 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | 0.0000 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **378** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **107** | m3 | **20,970** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **1** | m3 | **1,285** | e3m3 | **0** | m3 |
| Total recovery: | **108** | m3 | **22,255** | e3m3 | **0** | m3 |
| Peak Rate: | 0.3 | m3/d | 18.7 | e3m3/d | based on annual | |
| Peak Rate: | 0.4 | m3/d | 225.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 18.7 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 1.0 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

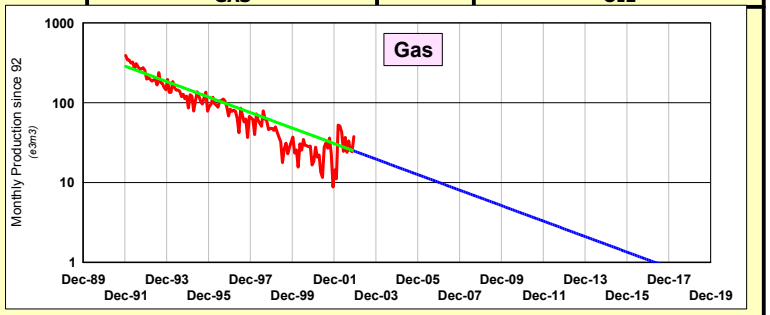
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1990 | 0 | 1,165 | 0 | 0 | 1,165 | 0 | ERR |
| 2 | 1991 | 0 | 6,844 | 0 | 0 | 8,009 | 0 | ERR |
| 3 | 1992 | 98 | 3,633 | 0 | 98 | 11,642 | 0 | 37,111 |
| 4 | 1993 | 9 | 2,242 | 0 | 107 | 13,884 | 0 | 260,721 |
| 5 | 1994 | 0 | 1,714 | 0 | 107 | 15,598 | 0 | ERR |
| 6 | 1995 | 0 | 1,310 | 0 | 107 | 16,908 | 0 | ERR |
| 7 | 1996 | 0 | 1,170 | 0 | 107 | 18,078 | 0 | ERR |
| 8 | 1997 | 0 | 806 | 0 | 107 | 18,884 | 0 | ERR |
| 9 | 1998 | 0 | 701 | 0 | 107 | 19,585 | 0 | ERR |
| 10 | 1999 | 0 | 414 | 0 | 107 | 19,998 | 0 | ERR |
| 11 | 2000 | 0 | 325 | 0 | 107 | 20,323 | 0 | ERR |
| 12 | 2001 | 0 | 269 | 0 | 107 | 20,592 | 0 | ERR |
| 13 | 2002 | 0 | 378 | 0 | 107 | 20,970 | 0 | ERR |
| 14 | 2003 | 0 | 266 | 0 | 107 | 21,236 | 0 | 1,000,000 |
| 15 | 2004 | 0 | 213 | 0 | 107 | 21,450 | 0 | 1,000,000 |
| 16 | 2005 | 0 | 170 | 0 | 107 | 21,620 | 0 | 1,000,000 |
| 17 | 2006 | 0 | 136 | 0 | 107 | 21,756 | 0 | 1,000,000 |
| 18 | 2007 | 0 | 109 | 0 | 107 | 21,866 | 0 | 1,000,000 |
| 19 | 2008 | 0 | 87 | 0 | 107 | 21,953 | 0 | 1,000,000 |
| 20 | 2009 | 0 | 70 | 0 | 108 | 22,023 | 0 | 1,000,000 |
| 21 | 2010 | 0 | 56 | 0 | 108 | 22,078 | 0 | 1,000,000 |
| 22 | 2011 | 0 | 45 | 0 | 108 | 22,123 | 0 | 1,000,000 |
| 23 | 2012 | 0 | 36 | 0 | 108 | 22,159 | 0 | 1,000,000 |
| 24 | 2013 | 0 | 29 | 0 | 108 | 22,188 | 0 | 1,000,000 |
| 25 | 2014 | 0 | 23 | 0 | 108 | 22,210 | 0 | 1,000,000 |
| 26 | 2015 | 0 | 18 | 0 | 108 | 22,229 | 0 | 1,000,000 |
| 27 | 2016 | 0 | 15 | 0 | 108 | 22,243 | 0 | 1,000,000 |
| 28 | 2017 | 0 | 12 | 0 | 108 | 22,255 | 0 | 1,000,000 |

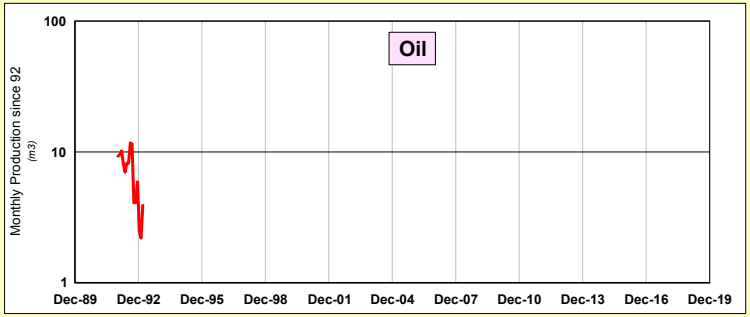
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 1000000 | m3/m3 | | | |
| Start: | 25 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007387**

Well Name: **PPC/Ram 25, Dover 5 - 4 - IVE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 14869 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.4938 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0332 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **318** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **629** | m3 | **8,798** | e3m3 | **176** | m3 |
| Remaining Recoverable: | **0** | m3 | **2,341** | e3m3 | **0** | m3 |
| Total recovery: | **629** | m3 | **11,139** | e3m3 | **176** | m3 |
| Peak Rate: | 0.4 | m3/d | 5.9 | e3m3/d | based on annual | |
| Peak Rate: | 1.7 | m3/d | 71.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.4 | m3/d | 5.9 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.9 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

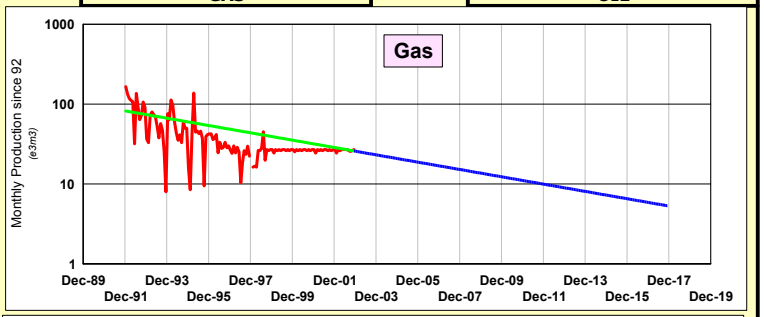
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 100 | 0 | 0 | 100 | 0 | 0 | 0 |
| 2 | 1990 | 143 | 2,166 | 0 | 243 | 2,166 | 0 | 15,142 |
| 3 | 1991 | 29 | 1,320 | 0 | 272 | 3,486 | 0 | 45,893 |
| 4 | 1992 | 129 | 1,232 | 44 | 401 | 4,718 | 44 | 9,591 |
| 5 | 1993 | 48 | 596 | 24 | 449 | 5,315 | 68 | 12,344 |
| 6 | 1994 | 111 | 724 | 45 | 560 | 6,038 | 113 | 6,524 |
| 7 | 1995 | 44 | 512 | 32 | 604 | 6,550 | 144 | 11,584 |
| 8 | 1996 | 14 | 407 | 24 | 618 | 6,957 | 169 | 29,912 |
| 9 | 1997 | 11 | 291 | 7 | 628 | 7,248 | 176 | 27,425 |
| 10 | 1998 | 1 | 275 | 1 | 629 | 7,523 | 176 | 239,374 |
| 11 | 1999 | 0 | 319 | 0 | 629 | 7,842 | 176 | ERR |
| 12 | 2000 | 0 | 320 | 0 | 629 | 8,161 | 176 | ERR |
| 13 | 2001 | 0 | 319 | 0 | 629 | 8,480 | 176 | ERR |
| 14 | 2002 | 0 | 318 | 0 | 629 | 8,798 | 176 | ERR |
| 15 | 2003 | 0 | 295 | 0 | 629 | 9,093 | 176 | ********** |
| 16 | 2004 | 0 | 265 | 0 | 629 | 9,358 | 176 | ********** |
| 17 | 2005 | 0 | 239 | 0 | 629 | 9,597 | 176 | ********** |
| 18 | 2006 | 0 | 215 | 0 | 629 | 9,812 | 176 | ********** |
| 19 | 2007 | 0 | 193 | 0 | 629 | 10,005 | 176 | ********** |
| 20 | 2008 | 0 | 174 | 0 | 629 | 10,179 | 176 | ********** |
| 21 | 2009 | 0 | 157 | 0 | 629 | 10,336 | 176 | ********** |
| 22 | 2010 | 0 | 141 | 0 | 629 | 10,477 | 176 | ********** |
| 23 | 2011 | 0 | 127 | 0 | 629 | 10,604 | 176 | ********** |
| 24 | 2012 | 0 | 114 | 0 | 629 | 10,718 | 176 | ********** |
| 25 | 2013 | 0 | 103 | 0 | 629 | 10,821 | 176 | ********** |
| 26 | 2014 | 0 | 93 | 0 | 629 | 10,913 | 176 | ********** |
| 27 | 2015 | 0 | 83 | 0 | 629 | 10,997 | 176 | ********** |
| 28 | 2016 | 0 | 75 | 0 | 629 | 11,072 | 176 | ********** |
| 29 | 2017 | 0 | 67 | 0 | 629 | 11,139 | 176 | ********** |

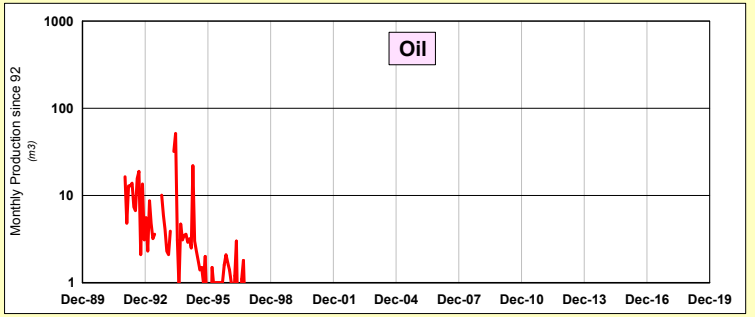
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

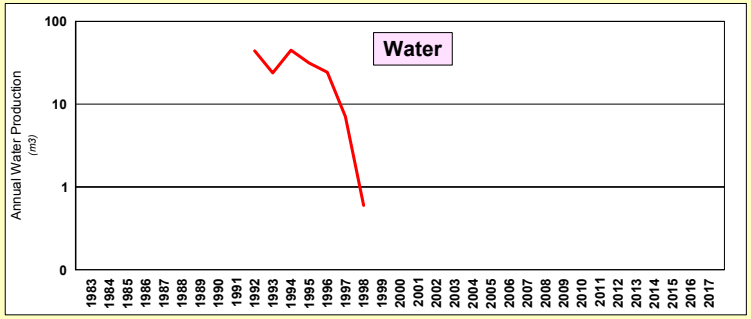
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100000000 | m3/m3 | | | |
| Start: | 26 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T007321**

Well Name: **PPC/Ram 20, Dover 3 - 7 - IIIE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 183591 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0000 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **355** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **49** | m3 | **19,178** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **33** | m3 | **1,673** | e3m3 | **0** | m3 |
| Total recovery: | **82** | m3 | **20,852** | e3m3 | **0** | m3 |
| Peak Rate: | 0.1 | m3/d | 11.1 | e3m3/d | based on annual | |
| Peak Rate: | 0.1 | m3/d | 133.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 11.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 1.0 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

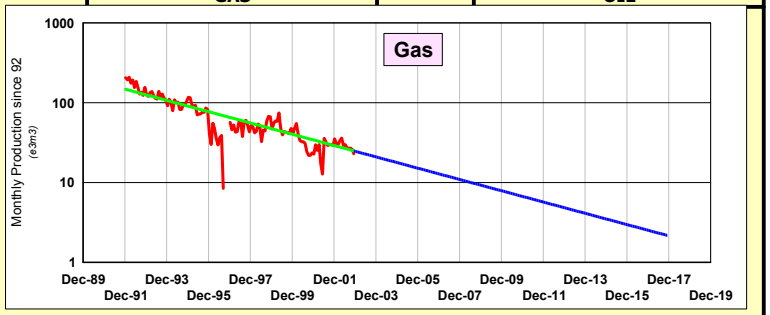
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 0 | 148 | 0 | 0 | 148 | 0 | ERR |
| 2 | 1989 | 0 | 4,064 | 0 | 0 | 4,212 | 0 | ERR |
| 3 | 1990 | 0 | 3,780 | 0 | 0 | 7,992 | 0 | ERR |
| 4 | 1991 | 0 | 2,264 | 0 | 0 | 10,256 | 0 | ERR |
| 5 | 1992 | 39 | 2,017 | 0 | 39 | 12,272 | 0 | 51,444 |
| 6 | 1993 | 9 | 1,474 | 0 | 49 | 13,747 | 0 | 156,819 |
| 7 | 1994 | 0 | 1,153 | 0 | 49 | 14,900 | 0 | ERR |
| 8 | 1995 | 0 | 1,046 | 0 | 49 | 15,946 | 0 | ERR |
| 9 | 1996 | 0 | 327 | 0 | 49 | 16,273 | 0 | ERR |
| 10 | 1997 | 0 | 609 | 0 | 49 | 16,882 | 0 | ERR |
| 11 | 1998 | 0 | 610 | 0 | 49 | 17,492 | 0 | ERR |
| 12 | 1999 | 0 | 600 | 0 | 49 | 18,092 | 0 | ERR |
| 13 | 2000 | 0 | 407 | 0 | 49 | 18,499 | 0 | ERR |
| 14 | 2001 | 0 | 324 | 0 | 49 | 18,823 | 0 | ERR |
| 15 | 2002 | 0 | 355 | 0 | 49 | 19,178 | 0 | ERR |
| 16 | 2003 | 6 | 275 | 0 | 54 | 19,453 | 0 | 50,000 |
| 17 | 2004 | 5 | 234 | 0 | 59 | 19,687 | 0 | 50,000 |
| 18 | 2005 | 4 | 199 | 0 | 63 | 19,886 | 0 | 50,000 |
| 19 | 2006 | 3 | 169 | 0 | 66 | 20,055 | 0 | 50,000 |
| 20 | 2007 | 3 | 144 | 0 | 69 | 20,198 | 0 | 50,000 |
| 21 | 2008 | 2 | 122 | 0 | 71 | 20,320 | 0 | 50,000 |
| 22 | 2009 | 2 | 104 | 0 | 74 | 20,424 | 0 | 50,000 |
| 23 | 2010 | 2 | 88 | 0 | 75 | 20,512 | 0 | 50,000 |
| 24 | 2011 | 1 | 75 | 0 | 77 | 20,587 | 0 | 50,000 |
| 25 | 2012 | 1 | 64 | 0 | 78 | 20,651 | 0 | 50,000 |
| 26 | 2013 | 1 | 54 | 0 | 79 | 20,705 | 0 | 50,000 |
| 27 | 2014 | 1 | 46 | 0 | 80 | 20,751 | 0 | 50,000 |
| 28 | 2015 | 1 | 39 | 0 | 81 | 20,790 | 0 | 50,000 |
| 29 | 2016 | 1 | 33 | 0 | 82 | 20,823 | 0 | 50,000 |
| 30 | 2017 | 1 | 28 | 0 | 82 | 20,852 | 0 | 50,000 |

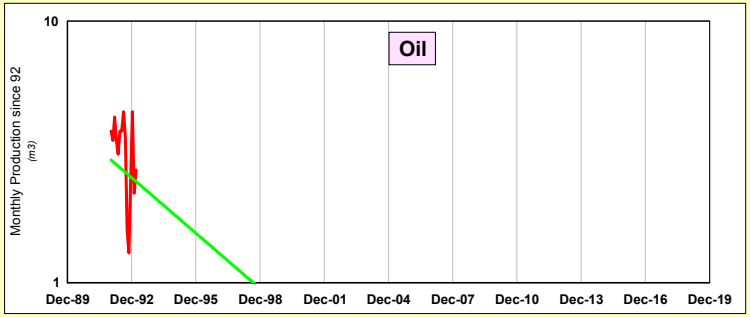
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 50000 | m3/m3 | | | |
| Start: | 25 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T007210**
Well Name: **PPC #14, Dover 1 - 5 - IVE**
Status: **Abandoned Well**
MNR Pool: **Dover 7-5-VE**
TGI Pool: **Dover 7-5-V E Pool**
TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 80895 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | | 0.0000 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | 0.0000 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 0 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 47 | m3 | 16,107 | e3m3 | 0 | m3 |
| Remaining Recoverable: | 0 | m3 | 0 | e3m3 | 0 | m3 |
| Total recovery: | 47 | m3 | 16,107 | e3m3 | 0 | m3 |
| Peak Rate: | 0.1 | m3/d | 12.4 | e3m3/d | based on annual | |
| Peak Rate: | 0.2 | m3/d | 148.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 12.4 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

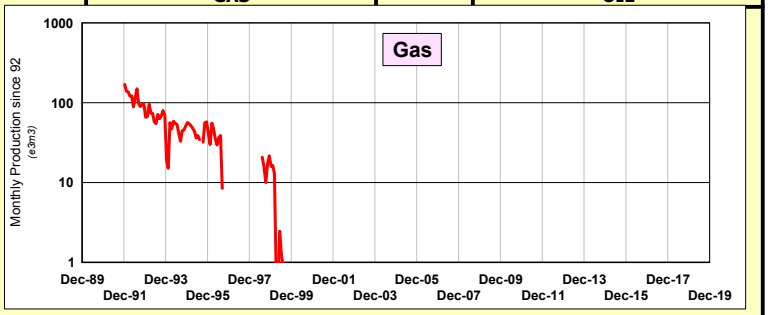
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1988 | 0 | 1,256 | 0 | 0 | 1,256 | 0 | |
| 2 | 1989 | 0 | 4,527 | 0 | 0 | 5,783 | 0 | |
| 3 | 1990 | 0 | 3,612 | 0 | 0 | 9,395 | 0 | |
| 4 | 1991 | 0 | 2,950 | 0 | 0 | 12,345 | 0 | |
| 5 | 1992 | 40 | 1,424 | 0 | 40 | 13,769 | 0 | 35,516 |
| 6 | 1993 | 6 | 843 | 0 | 47 | 14,612 | 0 | 131,688 |
| 7 | 1994 | 0 | 521 | 0 | 47 | 15,133 | 0 | |
| 8 | 1995 | 0 | 511 | 0 | 47 | 15,643 | 0 | |
| 9 | 1996 | 0 | 327 | 0 | 47 | 15,970 | 0 | |
| 9 | 1997 | 0 | 0 | 0 | 47 | 15,970 | 0 | |
| 10 | 1998 | 0 | 85 | 0 | 47 | 16,055 | 0 | |
| 11 | 1999 | 0 | 51 | 0 | 47 | 16,107 | 0 | |
| 11 | 2000 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2001 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2002 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2003 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2004 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2005 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2006 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2007 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2008 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2009 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2010 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2011 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2012 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2013 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2014 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2015 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2016 | 0 | 0 | 0 | 47 | 16,107 | 0 | |
| 11 | 2017 | 0 | 0 | 0 | 47 | 16,107 | 0 | |

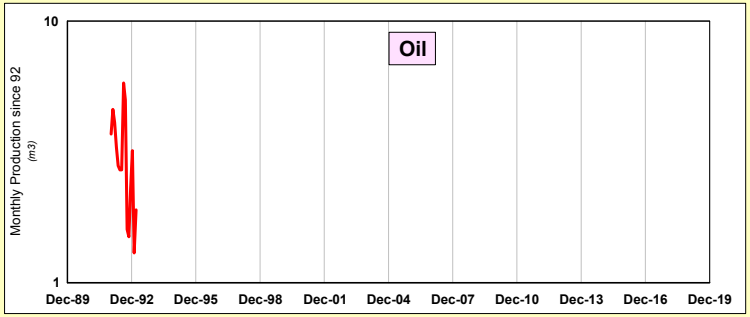
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
***(since 1992)***

**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 50000 | m3/m3 | | | |
| Start: | 0 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | 0.0293 | per month | Decline Factor: | 0.0293 | per month |



Well No.: **T006658A**

Well Name: **Rowe/Ram #8A, Dover 4 - 6 - IVE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 978 | m3 per m3 | 2,584 | last year | |
| 2002 Water/Oil ratio: | 1.3981 | m3 per m3 | 0.3798 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.5411 | m3 per e3m3 | 0.3883 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **70** | m3/yr | **181** | e3m3/yr | **98** | m3/yr |
| Cumm to Date: | **27,448** | m3 | **12,373** | e3m3 | **1,083** | m3 |
| Remaining Recoverable: | **203** | m3 | **508** | e3m3 | **284** | m3 |
| Total Recovery: | **27,651** | m3 | **12,882** | e3m3 | **1,367** | m3 |
| Peak Rate: | 16.0 | m3/d | 6.3 | e3m3/d | based on annual | |
| Peak Rate: | 4.2 | m3/d | 76.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 16.0 | m3/d | 0.2 | e3m3/d | per day based on annual | |
| Current Rate: | 0.2 | m3/d | 0.5 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1985 | 4,875 | 0 | 0 | 4,875 | 0 | 0 | 0 |
| 2 | 1986 | 5,836 | 60 | 0 | 10,711 | 60 | 0 | 10 |
| 3 | 1987 | 3,640 | 1,941 | 0 | 14,350 | 2,000 | 0 | 533 |
| 4 | 1988 | 3,415 | 2,264 | 0 | 17,766 | 4,264 | 0 | 663 |
| 5 | 1989 | 2,891 | 2,319 | 0 | 20,656 | 6,583 | 0 | 802 |
| 6 | 1990 | 2,280 | 1,750 | 0 | 22,936 | 8,333 | 0 | 768 |
| 7 | 1991 | 1,660 | 1,251 | 0 | 24,596 | 9,584 | 0 | 754 |
| 8 | 1992 | 912 | 618 | 102 | 25,508 | 10,202 | 102 | 678 |
| 9 | 1993 | 492 | 250 | 59 | 26,000 | 10,452 | 160 | 509 |
| 10 | 1994 | 338 | 269 | 82 | 26,338 | 10,722 | 242 | 797 |
| 11 | 1995 | 196 | 185 | 91 | 26,534 | 10,907 | 332 | 944 |
| 12 | 1996 | 192 | 183 | 155 | 26,726 | 11,090 | 488 | 955 |
| 13 | 1997 | 188 | 184 | 127 | 26,914 | 11,273 | 614 | 977 |
| 14 | 1998 | 134 | 212 | 56 | 27,047 | 11,485 | 670 | 1,585 |
| 15 | 1999 | 135 | 293 | 117 | 27,182 | 11,778 | 787 | 2,175 |
| 16 | 2000 | 111 | 212 | 83 | 27,293 | 11,991 | 870 | 1,912 |
| 17 | 2001 | 85 | 202 | 115 | 27,378 | 12,193 | 986 | 2,379 |
| 18 | 2002 | 70 | 181 | 98 | 27,448 | 12,373 | 1,083 | 2,584 |
| 19 | 2003 | 52 | 129 | 72 | 27,500 | 12,502 | 1,155 | 2,500 |
| 20 | 2004 | 39 | 97 | 54 | 27,538 | 12,599 | 1,209 | 2,500 |
| 21 | 2005 | 29 | 72 | 41 | 27,567 | 12,671 | 1,250 | 2,500 |
| 22 | 2006 | 22 | 54 | 30 | 27,589 | 12,726 | 1,280 | 2,500 |
| 23 | 2007 | 16 | 41 | 23 | 27,605 | 12,766 | 1,303 | 2,500 |
| 24 | 2008 | 12 | 31 | 17 | 27,617 | 12,797 | 1,320 | 2,500 |
| 25 | 2009 | 9 | 23 | 13 | 27,627 | 12,820 | 1,333 | 2,500 |
| 26 | 2010 | 7 | 17 | 10 | 27,633 | 12,837 | 1,342 | 2,500 |
| 27 | 2011 | 5 | 13 | 7 | 27,639 | 12,850 | 1,350 | 2,500 |
| 28 | 2012 | 4 | 10 | 5 | 27,642 | 12,860 | 1,355 | 2,500 |
| 29 | 2013 | 3 | 7 | 4 | 27,645 | 12,867 | 1,359 | 2,500 |
| 30 | 2014 | 2 | 5 | 3 | 27,648 | 12,872 | 1,362 | 2,500 |
| 31 | 2015 | 2 | 4 | 2 | 27,649 | 12,876 | 1,364 | 2,500 |
| 32 | 2016 | 1 | 3 | 2 | 27,650 | 12,879 | 1,366 | 2,500 |
| 33 | 2017 | 1 | 2 | 1 | 27,651 | 12,882 | 1,367 | 2,500 |

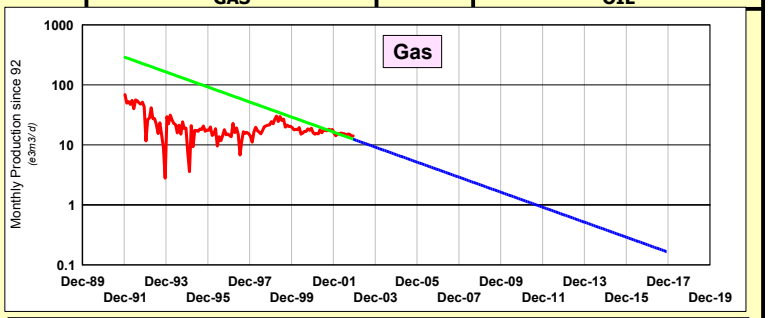
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

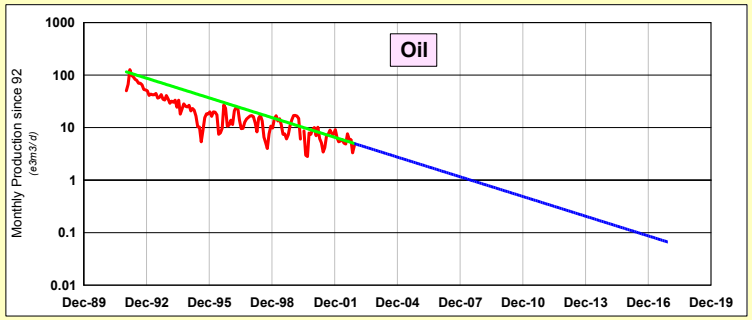
Revised May 27th, 2004

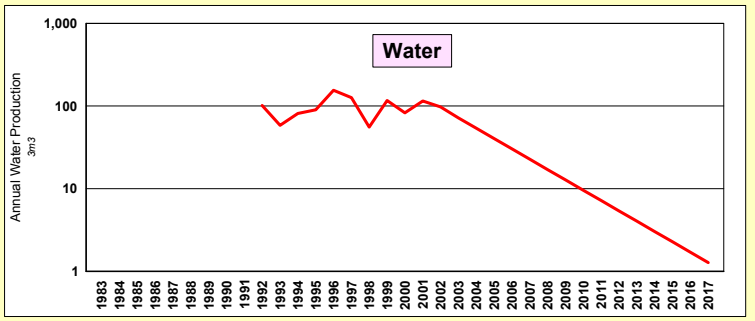
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 2500 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 5 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | 0.0237 | per month | Decline Factor: | 0.0237 | per month |



Well No.: **T006533**

Well Name: **Rowe/Ram No. 5, Dover 8 - 6 - IVE**

Status: **Abandoned Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.1307 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **584** | m3 | **0** | e3m3 | **10** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **584** | m3 | **0** | e3m3 | **10** | m3 |
| Peak Rate: | 0.4 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 0.2 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.3 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

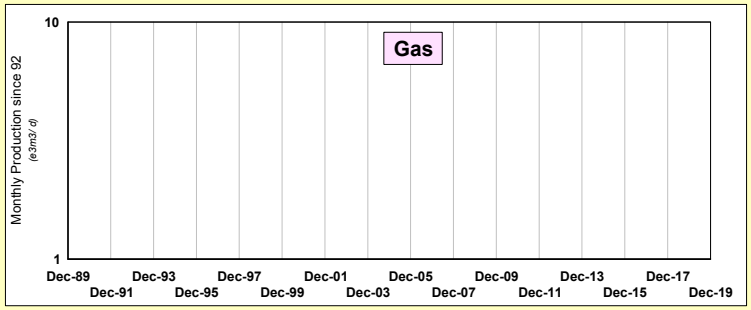
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1985 | 144 | 0 | 0 | 144 | 0 | 0 | 0 |
| 2 | 1986 | 105 | 0 | 0 | 249 | 0 | 0 | 0 |
| 3 | 1987 | 119 | 0 | 0 | 368 | 0 | 0 | 0 |
| 4 | 1988 | 56 | 0 | 0 | 424 | 0 | 0 | 0 |
| 5 | 1989 | 40 | 0 | 0 | 464 | 0 | 0 | 0 |
| 6 | 1990 | 8 | 0 | 0 | 472 | 0 | 0 | 0 |
| 7 | 1991 | 37 | 0 | 0 | 509 | 0 | 0 | 0 |
| 8 | 1992 | 26 | 0 | 6 | 535 | 0 | 6 | 0 |
| 9 | 1993 | 22 | 0 | 2 | 557 | 0 | 8 | 0 |
| 10 | 1994 | 21 | 0 | 1 | 578 | 0 | 9 | 0 |
| 11 | 1995 | 6 | 0 | 1 | 584 | 0 | 10 | 0 |
| 11 | 1996 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 1997 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 1998 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 1999 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2000 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2001 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2002 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2003 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2004 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2005 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2006 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2007 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2008 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2009 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2010 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2011 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2012 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2013 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2014 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2015 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2016 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |
| 11 | 2017 | 0 | 0 | 0 | 584 | 0 | 10 | ERR |

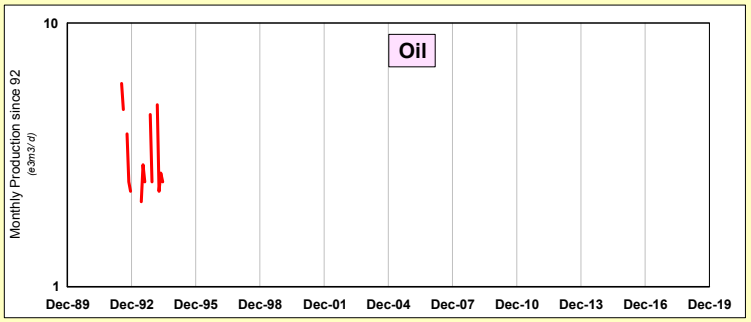
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

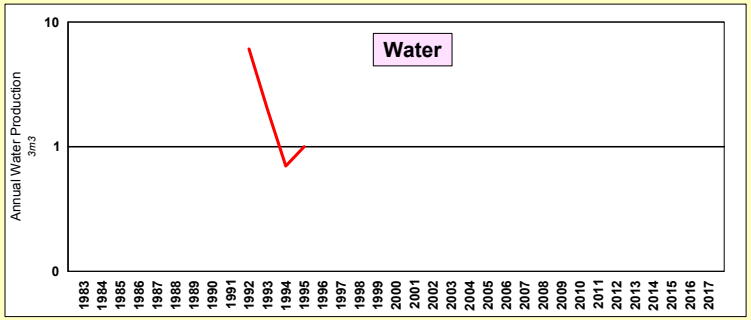
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 700 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T006437**

Well Name: **Rowe/Ram No.4, Dover 6 - 6 - IVE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 356 | m3 per m3 | 698 | last year |
| 2002 Water/Oil ratio: | 0.0055 | m3 per m3 | 0.0234 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0079 | m3 per e3m3 | 0.0656 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 259 | m3/yr | 181 | e3m3/yr | 1 | m3/yr |
| Cumm to Date: | 34,688 | m3 | 10,068 | e3m3 | 166 | m3 |
| Remaining Recoverable: | 1,272 | m3 | 890 | e3m3 | 7 | m3 |
| Total Recovery: | 35,960 | m3 | 10,958 | e3m3 | 173 | m3 |
| Peak Rate: | 17.7 | m3/d | 5.3 | e3m3/d | based on annual | |
| Peak Rate: | 5.3 | m3/d | 63.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 17.7 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.7 | m3/d | 0.5 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1984 | 3,183 | 0 | 0 | 3,183 | 0 | 0 | 0 |
| 2 | 1985 | 6,453 | 0 | 0 | 9,636 | 0 | 0 | 0 |
| 3 | 1986 | 3,992 | 59 | 0 | 13,628 | 59 | 0 | 15 |
| 4 | 1987 | 3,454 | 1,941 | 0 | 17,082 | 2,000 | 0 | 562 |
| 5 | 1988 | 2,605 | 1,844 | 0 | 19,687 | 3,844 | 0 | 708 |
| 6 | 1989 | 3,245 | 1,809 | 0 | 22,932 | 5,653 | 0 | 557 |
| 7 | 1990 | 2,768 | 1,101 | 0 | 25,700 | 6,754 | 0 | 398 |
| 8 | 1991 | 1,867 | 779 | 0 | 27,567 | 7,534 | 0 | 417 |
| 9 | 1992 | 1,539 | 384 | 4 | 29,106 | 7,918 | 4 | 250 |
| 10 | 1993 | 1,114 | 236 | 7 | 30,220 | 8,154 | 12 | 212 |
| 11 | 1994 | 797 | 266 | 8 | 31,017 | 8,419 | 20 | 333 |
| 12 | 1995 | 817 | 182 | 27 | 31,835 | 8,601 | 46 | 222 |
| 13 | 1996 | 634 | 184 | 42 | 32,469 | 8,785 | 88 | 289 |
| 14 | 1997 | 565 | 176 | 5 | 33,034 | 8,960 | 93 | 311 |
| 15 | 1998 | 449 | 211 | 67 | 33,483 | 9,171 | 160 | 470 |
| 16 | 1999 | 374 | 293 | 2 | 33,857 | 9,464 | 162 | 783 |
| 17 | 2000 | 297 | 220 | 2 | 34,154 | 9,684 | 163 | 740 |
| 18 | 2001 | 275 | 203 | 1 | 34,429 | 9,887 | 165 | 740 |
| 19 | 2002 | 259 | 181 | 1 | 34,688 | 10,068 | 166 | 698 |
| 20 | 2003 | 209 | 146 | 1 | 34,897 | 10,215 | 167 | 700 |
| 21 | 2004 | 178 | 124 | 1 | 35,075 | 10,339 | 168 | 700 |
| 22 | 2005 | 151 | 106 | 1 | 35,226 | 10,445 | 169 | 700 |
| 23 | 2006 | 128 | 90 | 1 | 35,354 | 10,534 | 170 | 700 |
| 24 | 2007 | 109 | 76 | 1 | 35,464 | 10,611 | 171 | 700 |
| 25 | 2008 | 93 | 65 | 1 | 35,556 | 10,676 | 171 | 700 |
| 26 | 2009 | 79 | 55 | 0 | 35,635 | 10,731 | 172 | 700 |
| 27 | 2010 | 67 | 47 | 0 | 35,702 | 10,778 | 172 | 700 |
| 28 | 2011 | 57 | 40 | 0 | 35,759 | 10,818 | 172 | 700 |
| 29 | 2012 | 48 | 34 | 0 | 35,808 | 10,852 | 173 | 700 |
| 30 | 2013 | 41 | 29 | 0 | 35,849 | 10,880 | 173 | 700 |
| 31 | 2014 | 35 | 24 | 0 | 35,884 | 10,905 | 173 | 700 |
| 32 | 2015 | 30 | 21 | 0 | 35,913 | 10,926 | 173 | 700 |
| 33 | 2016 | 25 | 18 | 0 | 35,939 | 10,943 | 173 | 700 |
| 34 | 2017 | 21 | 15 | 0 | 35,960 | 10,958 | 173 | 700 |

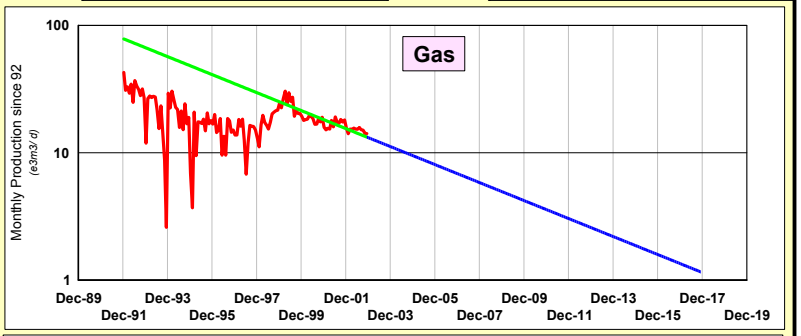
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

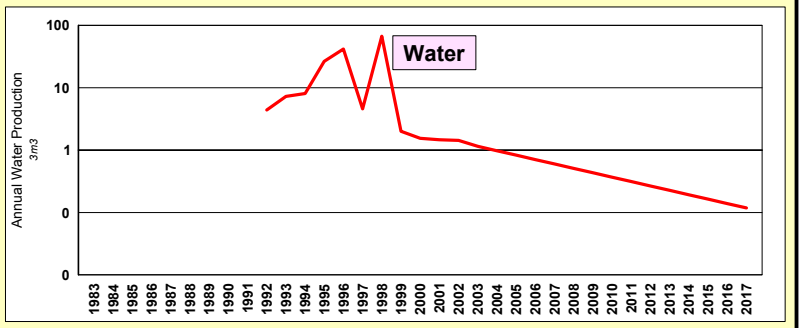
Revised May 27th, 2004

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 700 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 19 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | 0.0135 | per month | Decline Factor: | 0.0135 | per month |





Well No.: **T006059**

Well Name: **Rowe-Ram #1, Dover 7 - 5 - VE**

Status: **Suspended Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.1659 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **12,741** | m3 | **0** | e3m3 | **71** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **12,741** | m3 | **0** | e3m3 | **71** | m3 |
| Peak Rate: | 8.2 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 1.9 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 6.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 1 | 1983 | 2,981 | 0 | 0 | 2,981 | 0 | 0 | 0 |
| 2 | 1984 | 2,190 | 0 | 0 | 5,171 | 0 | 0 | 0 |
| 3 | 1985 | 1,753 | 0 | 0 | 6,924 | 0 | 0 | 0 |
| 4 | 1986 | 1,437 | 0 | 0 | 8,361 | 0 | 0 | 0 |
| 5 | 1987 | 989 | 0 | 0 | 9,350 | 0 | 0 | 0 |
| 6 | 1988 | 1,033 | 0 | 0 | 10,383 | 0 | 0 | 0 |
| 7 | 1989 | 968 | 0 | 0 | 11,351 | 0 | 0 | 0 |
| 8 | 1990 | 547 | 0 | 0 | 11,898 | 0 | 0 | 0 |
| 9 | 1991 | 415 | 0 | 0 | 12,313 | 0 | 0 | 0 |
| 10 | 1992 | 299 | 0 | 44 | 12,612 | 0 | 44 | 0 |
| 11 | 1993 | 129 | 0 | 27 | 12,741 | 0 | 71 | 0 |
| 11 | 1994 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 1995 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 1996 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 1997 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 1998 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 1999 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2000 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2001 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2002 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2003 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2004 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2005 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2006 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2007 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2008 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2009 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2010 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2011 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2012 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2013 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2014 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2015 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2016 | 0 | 0 | 0 | 12,741 | 0 | 71 | |
| 11 | 2017 | 0 | 0 | 0 | 12,741 | 0 | 71 | |

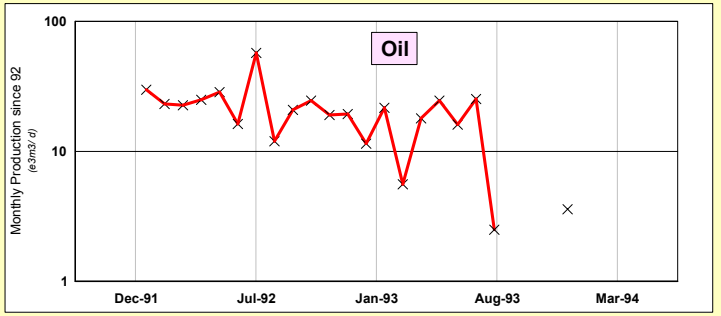
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

Revised May 27th, 2004

## Monthly Production vs Month + Forecast
***(since 1992)***

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | | per year | Decline Rate: | | per year |
| Decline Factor: | 0.0000 | per month | Decline Factor: | 0.0000 | per month |



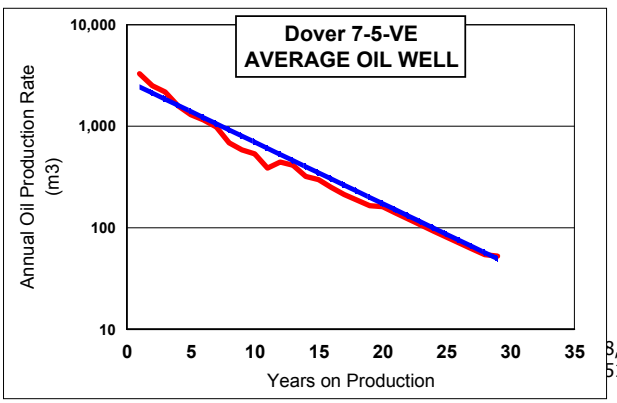
# Dover 7-5-VE

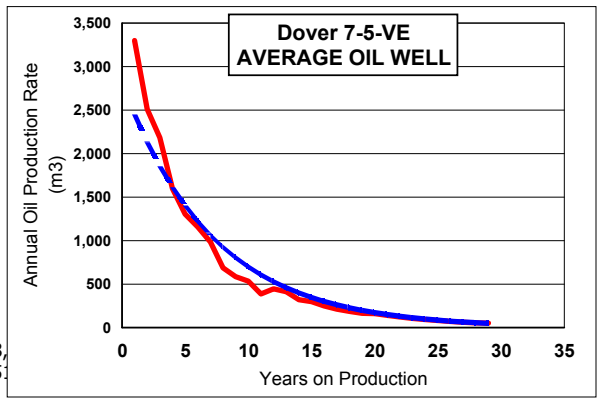
# Average Oil Well

GOR: 0.5982
WOR: 0.5310

| Prod Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|
| 1 | 2,450 | 1,466 | 1,301 | 2,450 | 1,466 | 1,301 | 598 |
| 2 | 2,132 | 1,275 | 1,132 | 4,582 | 2,741 | 2,433 | 598 |
| 3 | 1,854 | 1,109 | 985 | 6,436 | 3,850 | 3,417 | 598 |
| 4 | 1,613 | 965 | 857 | 8,049 | 4,815 | 4,274 | 598 |
| 5 | 1,404 | 840 | 745 | 9,453 | 5,655 | 5,019 | 598 |
| 6 | 1,221 | 731 | 648 | 10,674 | 6,386 | 5,668 | 598 |
| 7 | 1,062 | 636 | 564 | 11,736 | 7,021 | 6,232 | 598 |
| 8 | 924 | 553 | 491 | 12,661 | 7,574 | 6,722 | 598 |
| 9 | 804 | 481 | 427 | 13,465 | 8,055 | 7,149 | 598 |
| 10 | 700 | 419 | 371 | 14,164 | 8,474 | 7,521 | 598 |
| 11 | 609 | 364 | 323 | 14,773 | 8,838 | 7,844 | 598 |
| 12 | 530 | 317 | 281 | 15,302 | 9,154 | 8,125 | 598 |
| 13 | 461 | 276 | 245 | 15,763 | 9,430 | 8,370 | 598 |
| 14 | 401 | 240 | 213 | 16,164 | 9,670 | 8,583 | 598 |
| 15 | 349 | 209 | 185 | 16,513 | 9,878 | 8,768 | 598 |
| 16 | 303 | 181 | 161 | 16,816 | 10,060 | 8,929 | 598 |
| 17 | 264 | 158 | 140 | 17,080 | 10,218 | 9,069 | 598 |
| 18 | 230 | 137 | 122 | 17,310 | 10,355 | 9,191 | 598 |
| 19 | 200 | 120 | 106 | 17,509 | 10,475 | 9,297 | 598 |
| 20 | 174 | 104 | 92 | 17,683 | 10,579 | 9,389 | 598 |
| 21 | 151 | 90 | 80 | 17,834 | 10,669 | 9,469 | 598 |
| 22 | 132 | 79 | 70 | 17,966 | 10,748 | 9,539 | 598 |
| 23 | 114 | 68 | 61 | 18,080 | 10,816 | 9,600 | 598 |
| 24 | 100 | 60 | 53 | 18,180 | 10,876 | 9,653 | 598 |
| 25 | 87 | 52 | 46 | 18,266 | 10,928 | 9,699 | 598 |
| 26 | 75 | 45 | 40 | 18,342 | 10,973 | 9,739 | 598 |
| 27 | 66 | 39 | 35 | 18,407 | 11,012 | 9,774 | 598 |
| 28 | 57 | 34 | 30 | 18,464 | 11,046 | 9,804 | 598 |
| 29 | 50 | 30 | 26 | 18,514 | 11,076 | 9,830 | 598 |
| | 18,514 | 11,076 | 9,830 | | | | |

| | | |
|---|---|---|
| Start: | 2450 | m3 per yearh |
| Decline Rate | 13% | per year |
| Decline Facto | 0.0115 | per month |




Revised May 27th, 2004

# Oil Wells

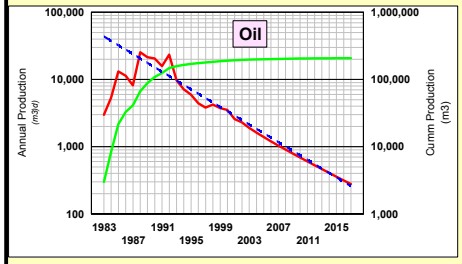
MNR Pool: **Dover 7-5-VE**

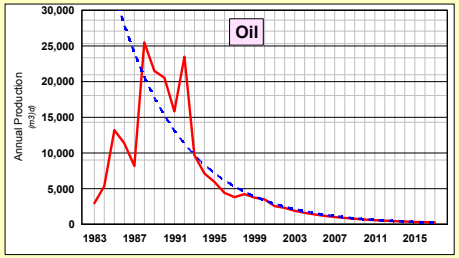
TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

No of Wells: **13**

## Annual & Cumulative Production
*(since 1983)*




**14%** Pool Decline

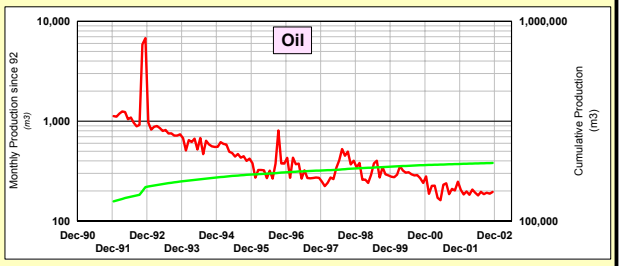
| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

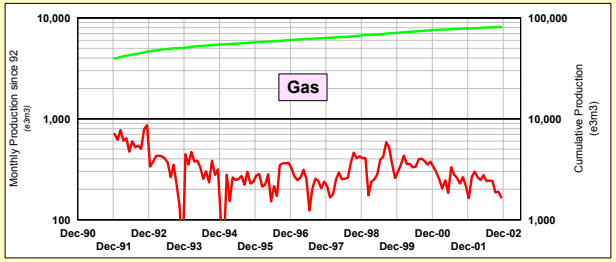
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 2,313 | m3/yr | 2,788 | e3m3/yr | 2,625 | m3/yr |
| Cumm to Date: | 195,530 | m3 | 81,407 | e3m3 | 37,687 | m3 |
| Remaining Recoverable: | 12,523 | m3 | 11,020 | e3m3 | 10,334 | m3 |
| Total recovery: | 208,053 | m3 | 92,427 | e3m3 | 48,021 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 6 | m3/d | 8 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

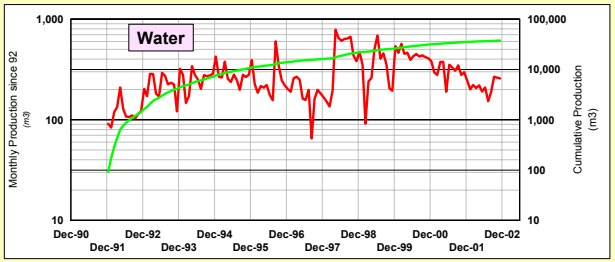
| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 1983 | 2,981 | 0 | 0 | 2,981 | 0 | 0 | |
| 1 | 2 | 1984 | 5,372 | 0 | 0 | 8,353 | 0 | 0 | |
| 3 | 3 | 1985 | 13,226 | 0 | 0 | 21,579 | 0 | 0 | |
| 3 | 4 | 1986 | 11,370 | 119 | 0 | 32,949 | 119 | 0 | |
| 3 | 5 | 1987 | 8,201 | 3,881 | 0 | 41,150 | 4,000 | 0 | 473 |
| 7 | 6 | 1988 | 25,507 | 7,881 | 0 | 66,657 | 11,881 | 0 | 309 |
| 7 | 7 | 1989 | 21,524 | 9,235 | 0 | 88,181 | 21,116 | 0 | 429 |
| 8 | 8 | 1990 | 20,539 | 9,982 | 0 | 108,720 | 31,098 | 0 | 486 |
| 10 | 9 | 1991 | 15,833 | 7,848 | 0 | 124,553 | 38,946 | 0 | 496 |
| 11 | 10 | 1992 | 23,518 | 7,652 | 1,432 | 148,071 | 46,598 | 1,432 | 325 |
| 11 | 11 | 1993 | 9,728 | 3,786 | 2,667 | 157,799 | 50,384 | 4,099 | 389 |
| 12 | 12 | 1994 | 7,139 | 4,133 | 3,109 | 164,938 | 54,517 | 7,208 | 579 |
| 12 | 13 | 1995 | 5,943 | 2,612 | 3,384 | 170,881 | 57,129 | 10,592 | 440 |
| 8 | 14 | 1996 | 4,421 | 3,256 | 3,202 | 175,302 | 60,385 | 13,793 | 737 |
| 8 | 15 | 1997 | 3,825 | 2,931 | 2,297 | 179,126 | 63,316 | 16,090 | 766 |
| 9 | 16 | 1998 | 4,245 | 3,531 | 5,464 | 183,371 | 66,848 | 21,554 | 832 |
| 8 | 17 | 1999 | 3,758 | 4,298 | 4,232 | 187,129 | 71,146 | 25,786 | 1,144 |
| 8 | 18 | 2000 | 3,517 | 4,376 | 5,457 | 190,646 | 75,522 | 31,243 | 1,244 |
| 8 | 19 | 2001 | 2,570 | 3,097 | 3,818 | 193,217 | 78,619 | 35,061 | 1,205 |
| 8 | 20 | 2002 | 2,313 | 2,788 | 2,625 | 195,530 | 81,407 | 37,687 | 1,205 |
| | 21 | 2003 | 1,906 | 2,044 | 1,946 | 197,436 | 83,450 | 39,633 | 1,072 |
| | 22 | 2004 | 1,622 | 1,559 | 1,520 | 199,058 | 85,009 | 41,152 | 961 |
| | 23 | 2005 | 1,393 | 1,244 | 1,222 | 200,452 | 86,253 | 42,374 | 893 |
| | 24 | 2006 | 1,204 | 1,025 | 1,002 | 201,656 | 87,278 | 43,376 | 851 |
| | 25 | 2007 | 1,045 | 863 | 834 | 202,700 | 88,141 | 44,210 | 826 |
| | 26 | 2008 | 909 | 738 | 700 | 203,609 | 88,879 | 44,910 | 812 |
| | 27 | 2009 | 792 | 636 | 593 | 204,401 | 89,515 | 45,503 | 803 |
| | 28 | 2010 | 692 | 552 | 504 | 205,093 | 90,067 | 46,007 | 798 |
| | 29 | 2011 | 605 | 482 | 431 | 205,699 | 90,549 | 46,438 | 796 |
| | 30 | 2012 | 530 | 421 | 369 | 206,229 | 90,970 | 46,807 | 795 |
| | 31 | 2013 | 465 | 370 | 318 | 206,694 | 91,340 | 47,125 | 795 |
| | 32 | 2014 | 408 | 325 | 274 | 207,102 | 91,665 | 47,399 | 797 |
| | 33 | 2015 | 358 | 286 | 237 | 207,460 | 91,951 | 47,636 | 799 |
| | 34 | 2016 | 315 | 253 | 206 | 207,776 | 92,204 | 47,842 | 801 |
| | 35 | 2017 | 278 | 223 | 179 | 208,053 | 92,427 | 48,021 | 804 |
| | | To date: | 195,530 | 81,407 | 37,687 | | | | |

Revised May 27th, 2004

## Monthly Production vs Month
*(1992 to 2002)*



Well No.: **T007802**

Well Name: **PPC/RAM 31, Dover 3 - 6 - IVE**

Status: **Suspended Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 1348 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0142 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0106 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 0 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 4,668 | m3 | 4,724 | e3m3 | 44 | m3 |
| Remaining Recoverable: | 0 | m3 | 0 | e3m3 | 0 | m3 |
| Total Recovery: | 4,668 | m3 | 4,724 | e3m3 | 44 | m3 |
| Peak Rate: | 4.3 | m3/d | 3.1 | e3m3/d | based on annual | |
| Peak Rate: | 4.2 | m3/d | 18.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.4 | m3/d | 3.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

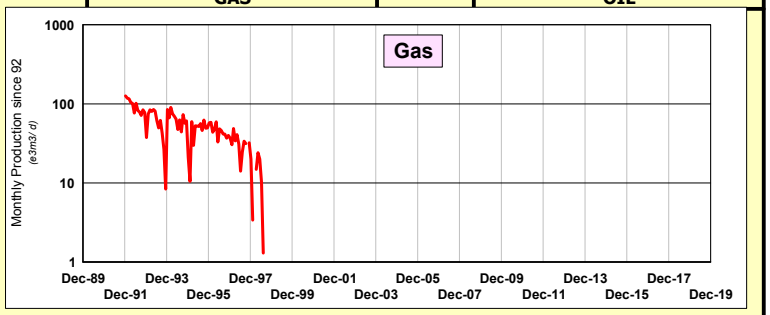
| Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1991 | 1,571 | 548 | 0 | 1,571 | 548 | 0 | 349 |
| 2 | 1992 | 871 | 1,138 | 17 | 2,443 | 1,687 | 17 | 1,307 |
| 3 | 1993 | 594 | 693 | 3 | 3,036 | 2,380 | 20 | 1,167 |
| 4 | 1994 | 455 | 796 | 4 | 3,491 | 3,176 | 24 | 1,751 |
| 5 | 1995 | 428 | 542 | 16 | 3,919 | 3,718 | 40 | 1,267 |
| 6 | 1996 | 613 | 554 | 4 | 4,532 | 4,272 | 44 | 904 |
| 7 | 1997 | 135 | 358 | 0 | 4,667 | 4,630 | 44 | 2,654 |
| 8 | 1998 | 1 | 94 | 0 | 4,668 | 4,724 | 44 | 93,920 |
| 8 | 1999 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2000 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2001 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2002 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2003 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2004 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2005 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2006 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2007 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2008 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2009 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2010 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2011 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2012 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2013 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2014 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2015 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2016 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |
| 8 | 2017 | 0 | 0 | 0 | 4,668 | 4,724 | 44 | ERR |

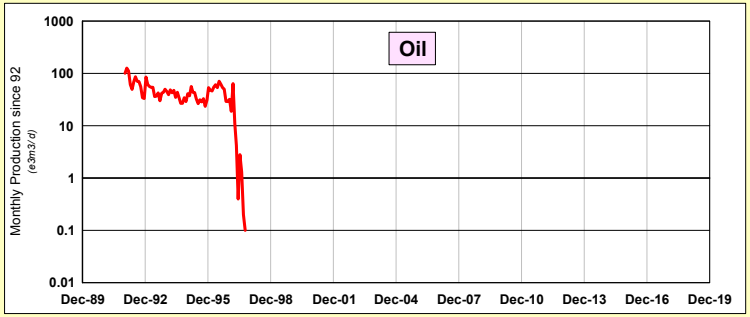
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

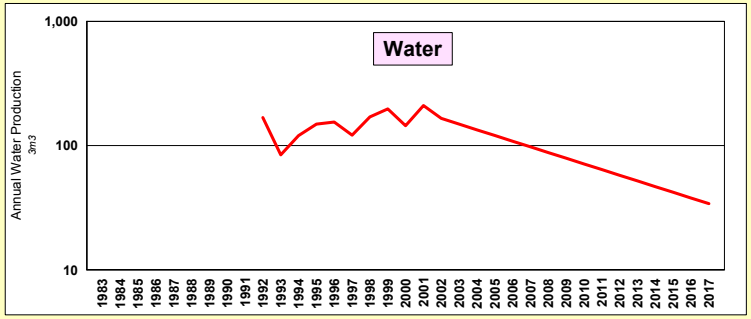
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | 0.0000 | per month | Decline Factor: | 0.0000 | per month |



Well No.: **T007762**

Well Name: **PPC/RAM 27, Dover 8 - 1 - VE**

Status: **Abandoned Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0356 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **425** | m3 | **0** | e3m3 | **10** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **425** | m3 | **0** | e3m3 | **10** | m3 |
| Peak Rate: | 0.6 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 1.7 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.6 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1991 | 144 | 0 | 0 | 144 | 0 | 0 | 0 |
| 2 | 1992 | 203 | 0 | 6 | 347 | 0 | 6 | 0 |
| 3 | 1993 | 35 | 0 | 4 | 382 | 0 | 10 | 0 |
| 4 | 1994 | 31 | 0 | 0 | 413 | 0 | 10 | 0 |
| 5 | 1995 | 12 | 0 | 0 | 425 | 0 | 10 | 0 |
| 5 | 1996 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 1997 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 1998 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 1999 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2000 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2001 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2002 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2003 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2004 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2005 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2006 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2007 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2008 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2009 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2010 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2011 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2012 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2013 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2014 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2015 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2016 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |
| 5 | 2017 | 0 | 0 | 0 | 425 | 0 | 10 | ERR |

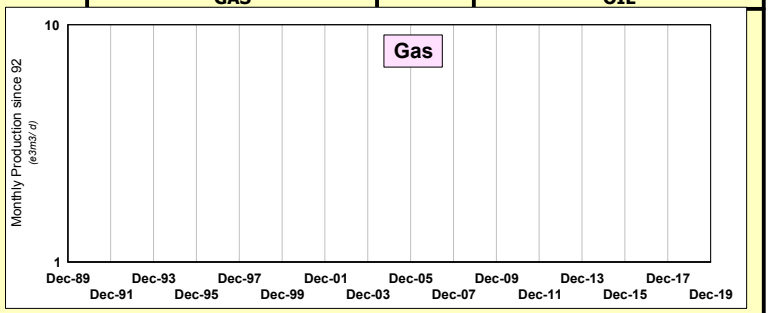
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

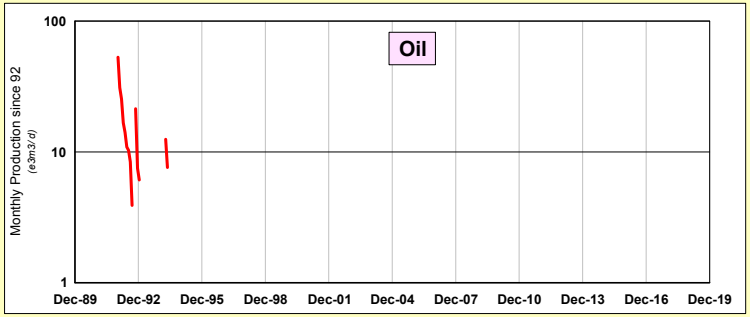
Database does not show annual production for 1990. Assumes 1989 is 90. 1988 is 1989 etc.

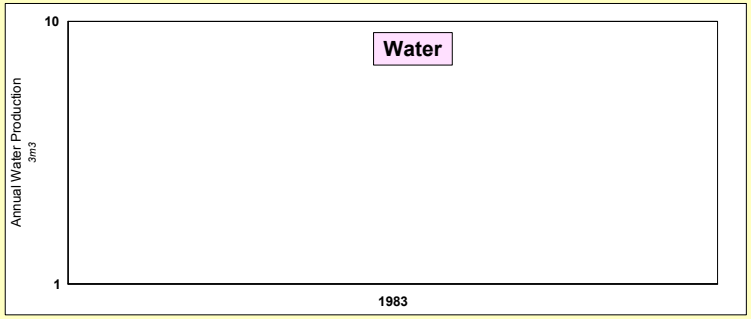
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | 0.0000 | per month | Decline Factor: | 0.0000 | per month |



Well No.: **T007619**

Well Name: **PPC/Ram 19, Dover 5 - 7 - IIIE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 54 | m3 per m3 | 247 | last year | |
| 2002 Water/Oil ratio: | 0.0314 | m3 per m3 | 0.0638 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.1270 | m3 per e3m3 | 1.1777 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **207** | m3/yr | **51** | e3m3/yr | **7** | m3/yr |
| Cumm to Date: | **3,935** | m3 | **145** | e3m3 | **170** | m3 |
| Remaining Recoverable: | **1,205** | m3 | **298** | e3m3 | **38** | m3 |
| Total Recovery: | **5,139** | m3 | **442** | e3m3 | **208** | m3 |
| Peak Rate: | 2.5 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 2.0 | m3/d | 0.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.5 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.6 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

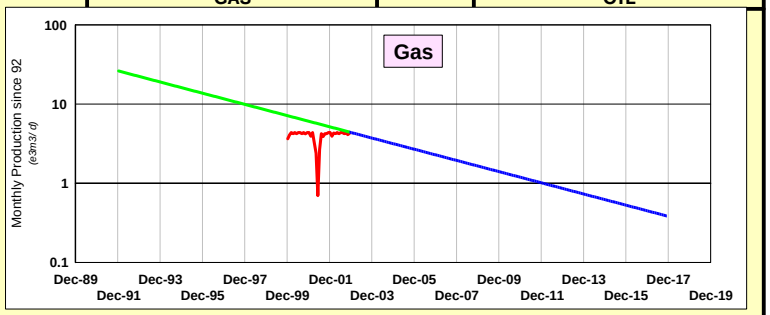
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1990 | 342 | 0 | 0 | 342 | 0 | 0 | 0 |
| 2 | 1991 | 922 | 0 | 0 | 1,264 | 0 | 0 | 0 |
| 3 | 1992 | 540 | 0 | 37 | 1,804 | 0 | 37 | 0 |
| 4 | 1993 | 394 | 0 | 27 | 2,198 | 0 | 64 | 0 |
| 5 | 1994 | 324 | 0 | 0 | 2,522 | 0 | 64 | 0 |
| 6 | 1995 | 114 | 0 | 6 | 2,636 | 0 | 70 | 0 |
| 6 | 1996 | 0 | 0 | 0 | 2,636 | 0 | 70 | ERR |
| 6 | 1997 | 0 | 0 | 0 | 2,636 | 0 | 70 | ERR |
| 7 | 1998 | 132 | 0 | 52 | 2,768 | 0 | 122 | 0 |
| 8 | 1999 | 373 | 0 | 31 | 3,142 | 0 | 152 | 0 |
| 9 | 2000 | 318 | 51 | 3 | 3,460 | 51 | 155 | 160 |
| 10 | 2001 | 268 | 43 | 9 | 3,727 | 94 | 164 | 160 |
| 11 | 2002 | 207 | 51 | 7 | 3,935 | 145 | 170 | 247 |
| 12 | 2003 | 198 | 49 | 6 | 4,133 | 194 | 177 | 247 |
| 13 | 2004 | 168 | 42 | 5 | 4,301 | 235 | 182 | 247 |
| 14 | 2005 | 143 | 35 | 4 | 4,444 | 271 | 186 | 247 |
| 15 | 2006 | 122 | 30 | 4 | 4,566 | 301 | 190 | 247 |
| 16 | 2007 | 103 | 26 | 3 | 4,669 | 326 | 193 | 247 |
| 17 | 2008 | 88 | 22 | 3 | 4,757 | 348 | 196 | 247 |
| 18 | 2009 | 75 | 18 | 2 | 4,831 | 366 | 199 | 247 |
| 19 | 2010 | 63 | 16 | 2 | 4,895 | 382 | 201 | 247 |
| 20 | 2011 | 54 | 13 | 2 | 4,949 | 395 | 202 | 247 |
| 21 | 2012 | 46 | 11 | 1 | 4,995 | 407 | 204 | 247 |
| 22 | 2013 | 39 | 10 | 1 | 5,034 | 416 | 205 | 247 |
| 23 | 2014 | 33 | 8 | 1 | 5,067 | 424 | 206 | 247 |
| 24 | 2015 | 28 | 7 | 1 | 5,095 | 431 | 207 | 247 |
| 25 | 2016 | 24 | 6 | 1 | 5,119 | 437 | 208 | 247 |
| 26 | 2017 | 20 | 5 | 1 | 5,139 | 442 | 208 | 247 |

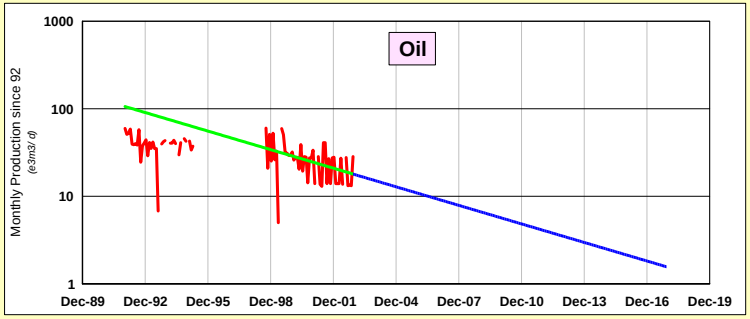
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

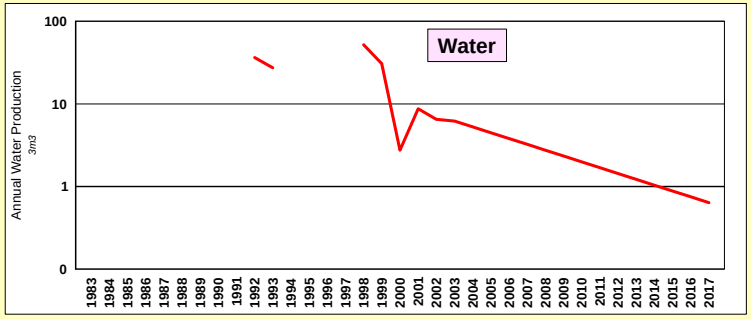
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 247 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 18 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T007527**

Well Name: **PPC/Ram 26, Dover 6 - 4 - IVE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 494 | m3 per m3 | 6,525 | last year | |
| 2002 Water/Oil ratio: | 3.9413 | m3 per m3 | 0.7446 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.6041 | m3 per e3m3 | 1.5086 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **152** | m3/yr | **988** | e3m3/yr | **597** | m3/yr |
| Cumm to Date: | **17,434** | m3 | **8,604** | e3m3 | **12,981** | m3 |
| Remaining Recoverable: | **168** | m3 | **1,097** | e3m3 | **663** | m3 |
| al Recovery: | **17,602** | m3 | **9,702** | e3m3 | **13,644** | m3 |
| Peak Rate: | 30.2 | m3/d | 6.8 | e3m3/d | based on annual | |
| Peak Rate: | 195.8 | m3/d | 13.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 4.2 | m3/d | 0.7 | e3m3/d | per day based on annual | |
| Current Rate: | 0.4 | m3/d | 2.7 | e3m3/d | | |
| Current decline rate: | 50% | | annually | | | |

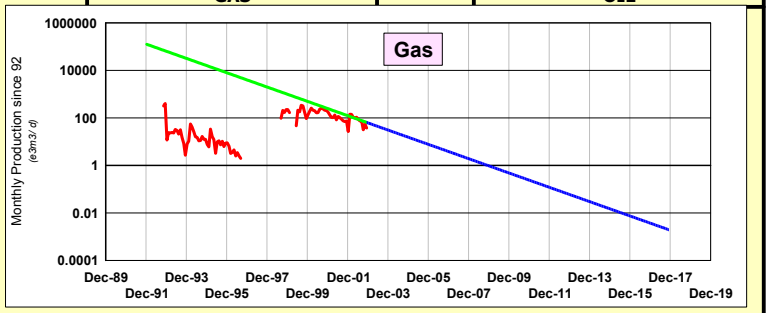
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1992 | 11,029 | 727 | 0 | 11,029 | 727 | 0 | 66 |
| 2 | 1993 | 1,545 | 250 | 244 | 12,574 | 977 | 244 | 162 |
| 3 | 1994 | 934 | 238 | 431 | 13,508 | 1,215 | 675 | 255 |
| 4 | 1995 | 706 | 134 | 687 | 14,214 | 1,349 | 1,361 | 189 |
| 5 | 1996 | 270 | 37 | 624 | 14,484 | 1,386 | 1,985 | 138 |
| 6 | 1997 | 28 | 4 | 0 | 14,512 | 1,390 | 1,985 | 128 |
| 7 | 1998 | 1,252 | 703 | 3,537 | 15,764 | 2,093 | 5,522 | 562 |
| 8 | 1999 | 676 | 1,768 | 1,988 | 16,439 | 3,862 | 7,510 | 2,616 |
| 9 | 2000 | 552 | 2,486 | 3,211 | 16,991 | 6,348 | 10,721 | 4,506 |
| 10 | 2001 | 291 | 1,268 | 1,663 | 17,283 | 7,616 | 12,384 | 4,351 |
| 11 | 2002 | 152 | 988 | 597 | 17,434 | 8,604 | 12,981 | 6,525 |
| 12 | 2003 | 84 | 549 | 331 | 17,518 | 9,153 | 13,312 | 6,525 |
| 13 | 2004 | 42 | 274 | 166 | 17,560 | 9,427 | 13,478 | 6,525 |
| 14 | 2005 | 21 | 137 | 83 | 17,581 | 9,565 | 13,561 | 6,525 |
| 15 | 2006 | 11 | 69 | 41 | 17,592 | 9,633 | 13,602 | 6,525 |
| 16 | 2007 | 5 | 34 | 21 | 17,597 | 9,667 | 13,623 | 6,525 |
| 17 | 2008 | 3 | 17 | 10 | 17,600 | 9,685 | 13,633 | 6,525 |
| 18 | 2009 | 1 | 9 | 5 | 17,601 | 9,693 | 13,638 | 6,525 |
| 19 | 2010 | 1 | 4 | 3 | 17,602 | 9,697 | 13,641 | 6,525 |
| 20 | 2011 | 0 | 2 | 1 | 17,602 | 9,700 | 13,642 | 6,525 |
| 21 | 2012 | 0 | 1 | 1 | 17,602 | 9,701 | 13,643 | 6,525 |
| 22 | 2013 | 0 | 1 | 0 | 17,602 | 9,701 | 13,643 | 6,525 |
| 23 | 2014 | 0 | 0 | 0 | 17,602 | 9,701 | 13,643 | 6,525 |
| 24 | 2015 | 0 | 0 | 0 | 17,602 | 9,702 | 13,644 | 6,525 |
| 25 | 2016 | 0 | 0 | 0 | 17,602 | 9,702 | 13,644 | 6,525 |
| 26 | 2017 | 0 | 0 | 0 | 17,602 | 9,702 | 13,644 | 6,525 |

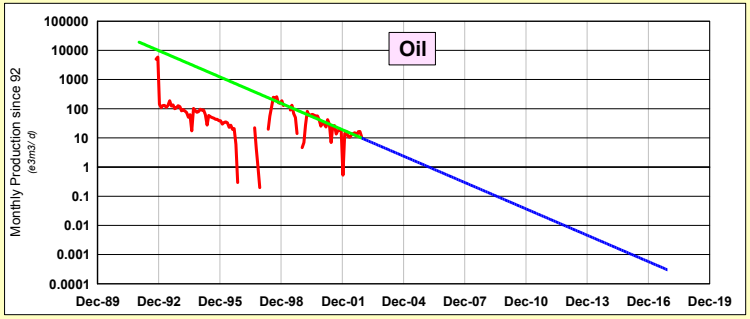
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

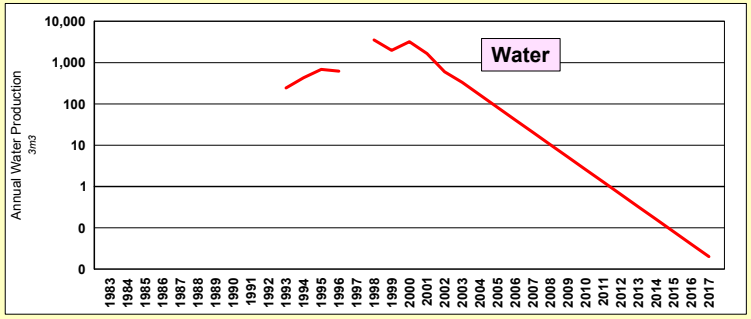
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 6525 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 10 | m3/mo. |
| Decline Rate: | 50% | per year | Decline Rate: | 50% | per year |
| Decline Factor: | **0.0561** | per month | Decline Factor: | **0.0561** | per month |



Well No.: **T007377**

Well Name: **PPC/Ram Disposal 1, Dover 2-6 - 6 - IVE**

Status: **Abandoned Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0625 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **370** | m3 | **0** | e3m3 | **23** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| al Recovery: | **370** | m3 | **0** | e3m3 | **23** | m3 |
| Peak Rate: | 0.6 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 1.6 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

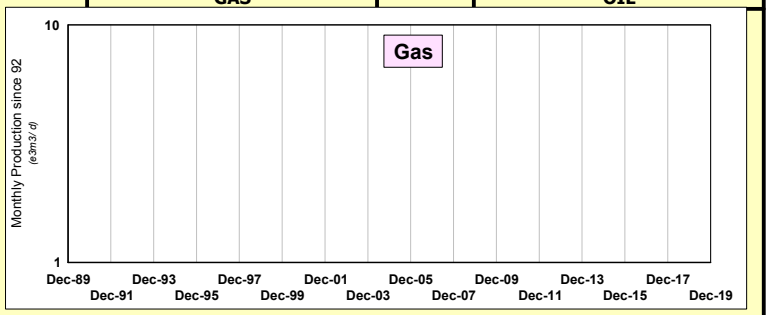
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1994 | 233 | 0 | 15 | 233 | 0 | 15 | 0 |
| 2 | 1995 | 137 | 0 | 8 | 370 | 0 | 23 | 0 |
| 2 | 1996 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 1997 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 1998 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 1999 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2000 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2001 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2002 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2003 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2004 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2005 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2006 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2007 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2008 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2009 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2010 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2011 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2012 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2013 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2014 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2015 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2016 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |
| 2 | 2017 | 0 | 0 | 0 | 370 | 0 | 23 | ERR |

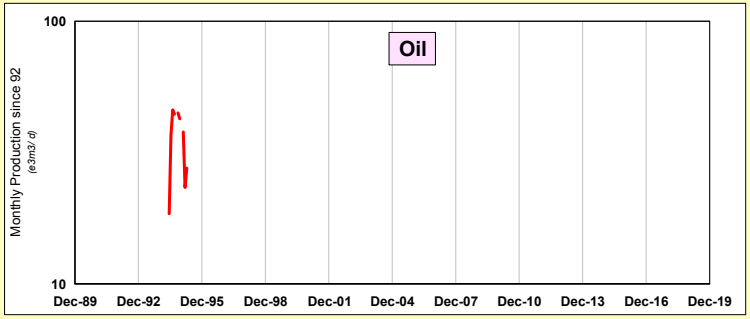
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

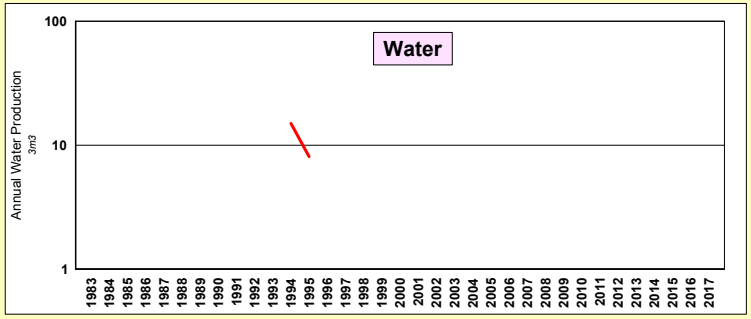
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | **0.0000** | per month | Decline Factor: | **0.0000** | per month |



Well No.: **T007289**

Well Name: **PPC/Ram 13, Dover 3 - 3 - IVE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 3585 | m3 per m3 | 5,015 | last year | |
| 2002 Water/Oil ratio: | 16.6463 | m3 per m3 | 5.1854 | last 10 years | |
| 2002 Water/ Gas Ratio: | 3.3191 | m3 per e3m3 | 1.4463 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **57** | m3/yr | **284** | e3m3/yr | **942** | m3/yr |
| Cumm to Date: | **4,261** | m3 | **11,276** | e3m3 | **11,782** | m3 |
| Remaining Recoverable: | **206** | m3 | **1,028** | e3m3 | **3,423** | m3 |
| Total Recovery: | **4,466** | m3 | **12,304** | e3m3 | **15,204** | m3 |
| Peak Rate: | 2.9 | m3/d | 4.7 | e3m3/d | based on annual | |
| Peak Rate: | 2.9 | m3/d | 56.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.2 | m3/d | 0.8 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

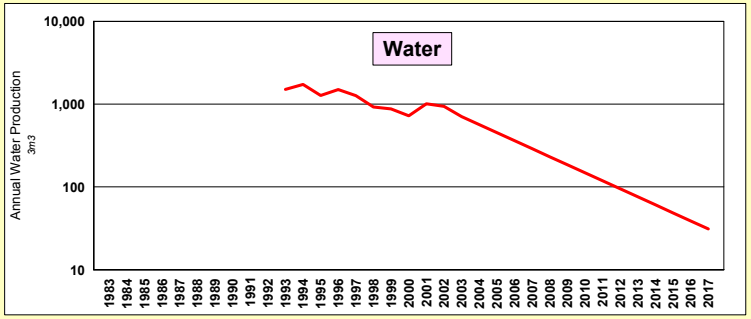
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 1,062 | 0 | 0 | 1,062 | 0 | 0 | 0 |
| 2 | 1989 | 8 | 0 | 0 | 1,070 | 0 | 0 | 0 |
| 3 | 1990 | 459 | 1,409 | 0 | 1,529 | 1,409 | 0 | 3,066 |
| 4 | 1991 | 459 | 1,721 | 0 | 1,989 | 3,130 | 0 | 3,746 |
| 5 | 1992 | 633 | 1,650 | 0 | 2,621 | 4,780 | 0 | 2,609 |
| 6 | 1993 | 250 | 645 | 1,512 | 2,871 | 5,425 | 1,512 | 2,586 |
| 7 | 1994 | 198 | 591 | 1,732 | 3,069 | 6,016 | 3,243 | 2,982 |
| 8 | 1995 | 288 | 445 | 1,277 | 3,356 | 6,461 | 4,520 | 1,546 |
| 9 | 1996 | 196 | 1,103 | 1,505 | 3,552 | 7,564 | 6,026 | 5,638 |
| 10 | 1997 | 273 | 1,355 | 1,271 | 3,825 | 8,919 | 7,297 | 4,963 |
| 11 | 1998 | 147 | 991 | 927 | 3,972 | 9,910 | 8,223 | 6,739 |
| 12 | 1999 | 86 | 470 | 879 | 4,058 | 10,381 | 9,102 | 5,494 |
| 13 | 2000 | 78 | 310 | 725 | 4,136 | 10,691 | 9,827 | 3,980 |
| 14 | 2001 | 68 | 301 | 1,013 | 4,204 | 10,992 | 10,839 | 4,403 |
| 15 | 2002 | 57 | 284 | 942 | 4,261 | 11,276 | 11,782 | 5,015 |
| 16 | 2003 | 43 | 213 | 710 | 4,303 | 11,489 | 12,491 | 5,000 |
| 17 | 2004 | 34 | 170 | 568 | 4,337 | 11,659 | 13,059 | 5,000 |
| 18 | 2005 | 27 | 136 | 454 | 4,365 | 11,796 | 13,513 | 5,000 |
| 19 | 2006 | 22 | 109 | 363 | 4,386 | 11,905 | 13,876 | 5,000 |
| 20 | 2007 | 17 | 87 | 291 | 4,404 | 11,992 | 14,167 | 5,000 |
| 21 | 2008 | 14 | 70 | 232 | 4,418 | 12,062 | 14,399 | 5,000 |
| 22 | 2009 | 11 | 56 | 186 | 4,429 | 12,118 | 14,585 | 5,000 |
| 23 | 2010 | 9 | 45 | 149 | 4,438 | 12,162 | 14,734 | 5,000 |
| 24 | 2011 | 7 | 36 | 119 | 4,445 | 12,198 | 14,853 | 5,000 |
| 25 | 2012 | 6 | 29 | 95 | 4,451 | 12,227 | 14,948 | 5,000 |
| 26 | 2013 | 5 | 23 | 76 | 4,455 | 12,250 | 15,024 | 5,000 |
| 27 | 2014 | 4 | 18 | 61 | 4,459 | 12,268 | 15,085 | 5,000 |
| 28 | 2015 | 3 | 15 | 49 | 4,462 | 12,283 | 15,134 | 5,000 |
| 29 | 2016 | 2 | 12 | 39 | 4,464 | 12,294 | 15,173 | 5,000 |
| 30 | 2017 | 2 | 9 | 31 | 4,466 | 12,304 | 15,204 | 5,000 |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 5000 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 4 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007240**

Well Name: **PPC et al 15, Dover 5 - 5 - IVE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 312 | m3 per m3 | 405 | last year | |
| 2002 Water/Oil ratio: | 0.6248 | m3 per m3 | 0.2801 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.5422 | m3 per e3m3 | 0.8992 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **700** | m3/yr | **284** | e3m3/yr | **437** | m3/yr |
| Cumm to Date: | **34,160** | m3 | **9,785** | e3m3 | **4,050** | m3 |
| Remaining Recoverable: | **3,347** | m3 | **1,339** | e3m3 | **2,091** | m3 |
| Total Recovery: | **37,506** | m3 | **11,124** | e3m3 | **6,141** | m3 |
| Peak Rate: | 14.6 | m3/d | 5.3 | e3m3/d | based on annual | |
| Peak Rate: | 15.8 | m3/d | 63.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 14.6 | m3/d | 4.2 | e3m3/d | per day based on annual | |
| Current Rate: | 1.9 | m3/d | 0.8 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

| Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 5,263 | 413 | 0 | 5,263 | 413 | 0 | 79 |
| 2 | 1989 | 5,339 | 1,534 | 0 | 10,602 | 1,947 | 0 | 287 |
| 3 | 1990 | 5,340 | 1,918 | 0 | 15,942 | 3,865 | 0 | 359 |
| 4 | 1991 | 3,759 | 1,416 | 0 | 19,701 | 5,281 | 0 | 377 |
| 5 | 1992 | 2,670 | 995 | 260 | 22,371 | 6,276 | 260 | 373 |
| 6 | 1993 | 2,065 | 574 | 260 | 24,437 | 6,850 | 519 | 278 |
| 7 | 1994 | 1,637 | 527 | 259 | 26,073 | 7,377 | 779 | 322 |
| 8 | 1995 | 1,395 | 291 | 362 | 27,469 | 7,668 | 1,141 | 209 |
| 9 | 1996 | 904 | 291 | 282 | 28,373 | 7,959 | 1,423 | 321 |
| 10 | 1997 | 1,261 | 256 | 321 | 29,635 | 8,215 | 1,744 | 203 |
| 11 | 1998 | 1,028 | 267 | 399 | 30,662 | 8,482 | 2,142 | 260 |
| 12 | 1999 | 981 | 356 | 498 | 31,644 | 8,838 | 2,640 | 363 |
| 13 | 2000 | 1,027 | 329 | 476 | 32,670 | 9,167 | 3,116 | 320 |
| 14 | 2001 | 789 | 334 | 496 | 33,459 | 9,501 | 3,612 | 424 |
| 15 | 2002 | 700 | 284 | 437 | 34,160 | 9,785 | 4,050 | 405 |
| 16 | 2003 | 550 | 220 | 344 | 34,710 | 10,005 | 4,394 | 400 |
| 17 | 2004 | 468 | 187 | 292 | 35,177 | 10,192 | 4,686 | 400 |
| 18 | 2005 | 397 | 159 | 248 | 35,575 | 10,351 | 4,934 | 400 |
| 19 | 2006 | 338 | 135 | 211 | 35,912 | 10,486 | 5,145 | 400 |
| 20 | 2007 | 287 | 115 | 179 | 36,199 | 10,601 | 5,324 | 400 |
| 21 | 2008 | 244 | 98 | 152 | 36,444 | 10,699 | 5,477 | 400 |
| 22 | 2009 | 207 | 83 | 130 | 36,651 | 10,782 | 5,607 | 400 |
| 23 | 2010 | 176 | 71 | 110 | 36,827 | 10,852 | 5,717 | 400 |
| 24 | 2011 | 150 | 60 | 94 | 36,977 | 10,912 | 5,810 | 400 |
| 25 | 2012 | 127 | 51 | 80 | 37,105 | 10,963 | 5,890 | 400 |
| 26 | 2013 | 108 | 43 | 68 | 37,213 | 11,006 | 5,958 | 400 |
| 27 | 2014 | 92 | 37 | 58 | 37,305 | 11,043 | 6,015 | 400 |
| 28 | 2015 | 78 | 31 | 49 | 37,383 | 11,074 | 6,064 | 400 |
| 29 | 2016 | 67 | 27 | 42 | 37,450 | 11,101 | 6,105 | 400 |
| 30 | 2017 | 57 | 23 | 35 | 37,506 | 11,124 | 6,141 | 400 |

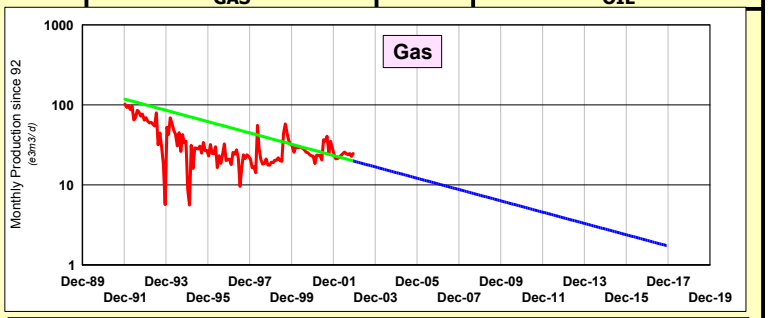
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

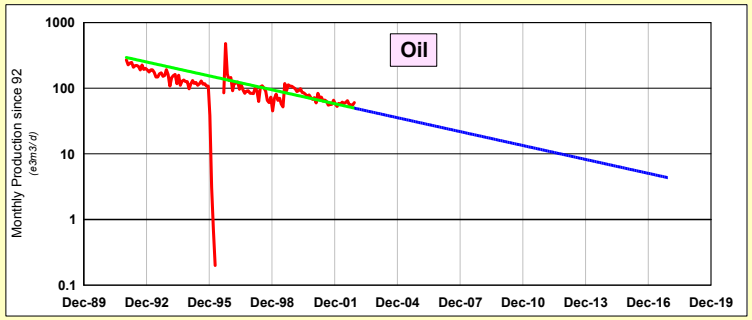
Revised May 27th, 2004

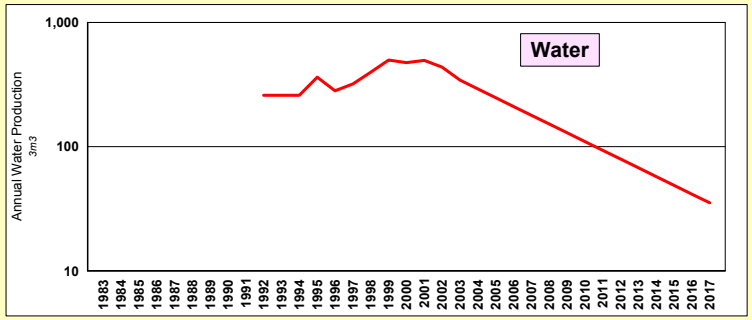
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 400 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 50 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | 0.0135 | per month | Decline Factor: | 0.0135 | per month |



Well No.: **T007220**

Well Name: **PPC 16, Dover 7 - 5 - IV**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 787 | m3 per m3 | 1,080 | last year | |
| 2002 Water/Oil ratio: | 0.6390 | m3 per m3 | 0.4770 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.5916 | m3 per e3m3 | 0.6059 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **590** | m3/yr | **637** | e3m3/yr | **377** | m3/yr |
| Cumm to Date: | **32,771** | m3 | **20,405** | e3m3 | **5,610** | m3 |
| Remaining Recoverable: | **4,142** | m3 | **4,474** | e3m3 | **2,647** | m3 |
| Total Recovery: | **36,913** | m3 | **24,878** | e3m3 | **8,257** | m3 |
| Peak Rate: | 21.0 | m3/d | 8.8 | e3m3/d | based on annual | |
| Peak Rate: | 9.5 | m3/d | 105.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 14.8 | m3/d | 8.4 | e3m3/d | per day based on annual | |
| Current Rate: | 1.6 | m3/d | 1.7 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

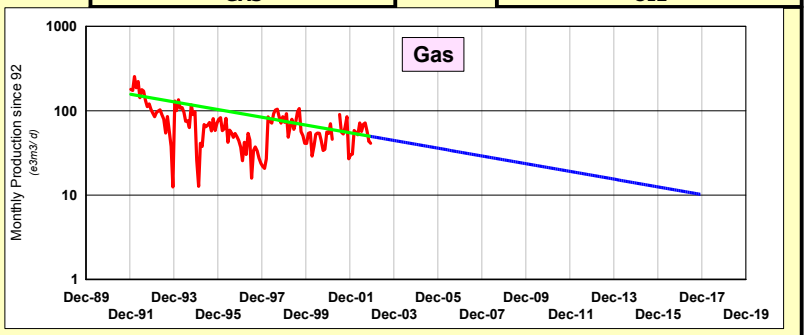
| Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 7,678 | 3,210 | 0 | 7,678 | 3,210 | 0 | 418 |
| 2 | 1989 | 5,411 | 3,056 | 0 | 13,089 | 6,266 | 0 | 565 |
| 3 | 1990 | 5,445 | 3,077 | 0 | 18,534 | 9,343 | 0 | 565 |
| 4 | 1991 | 2,475 | 1,803 | 0 | 21,009 | 11,146 | 0 | 728 |
| 5 | 1992 | 2,631 | 1,977 | 788 | 23,640 | 13,123 | 788 | 751 |
| 6 | 1993 | 1,724 | 894 | 439 | 25,364 | 14,016 | 1,227 | 518 |
| 7 | 1994 | 1,347 | 1,197 | 457 | 26,710 | 15,213 | 1,684 | 889 |
| 8 | 1995 | 1,002 | 659 | 761 | 27,713 | 15,872 | 2,445 | 657 |
| 9 | 1996 | 975 | 713 | 435 | 28,688 | 16,585 | 2,880 | 731 |
| 10 | 1997 | 824 | 406 | 453 | 29,512 | 16,991 | 3,333 | 493 |
| 11 | 1998 | 628 | 841 | 257 | 30,140 | 17,832 | 3,590 | 1,339 |
| 12 | 1999 | 814 | 843 | 519 | 30,954 | 18,675 | 4,109 | 1,035 |
| 13 | 2000 | 793 | 548 | 813 | 31,746 | 19,223 | 4,923 | 691 |
| 14 | 2001 | 435 | 545 | 310 | 32,181 | 19,767 | 5,233 | 1,253 |
| 15 | 2002 | 590 | 637 | 377 | 32,771 | 20,405 | 5,610 | 1,080 |
| 16 | 2003 | 522 | 563 | 333 | 33,293 | 20,968 | 5,943 | 1,080 |
| 17 | 2004 | 469 | 507 | 300 | 33,762 | 21,475 | 6,243 | 1,080 |
| 18 | 2005 | 423 | 456 | 270 | 34,185 | 21,931 | 6,513 | 1,080 |
| 19 | 2006 | 380 | 411 | 243 | 34,565 | 22,342 | 6,756 | 1,080 |
| 20 | 2007 | 342 | 370 | 219 | 34,907 | 22,712 | 6,975 | 1,080 |
| 21 | 2008 | 308 | 333 | 197 | 35,215 | 23,044 | 7,172 | 1,080 |
| 22 | 2009 | 277 | 299 | 177 | 35,493 | 23,344 | 7,349 | 1,080 |
| 23 | 2010 | 249 | 269 | 159 | 35,742 | 23,613 | 7,508 | 1,080 |
| 24 | 2011 | 225 | 243 | 143 | 35,967 | 23,856 | 7,652 | 1,080 |
| 25 | 2012 | 202 | 218 | 129 | 36,169 | 24,074 | 7,781 | 1,080 |
| 26 | 2013 | 182 | 196 | 116 | 36,351 | 24,270 | 7,897 | 1,080 |
| 27 | 2014 | 164 | 177 | 105 | 36,514 | 24,447 | 8,002 | 1,080 |
| 28 | 2015 | 147 | 159 | 94 | 36,662 | 24,606 | 8,096 | 1,080 |
| 29 | 2016 | 133 | 143 | 85 | 36,794 | 24,749 | 8,181 | 1,080 |
| 30 | 2017 | 119 | 129 | 76 | 36,913 | 24,878 | 8,257 | 1,080 |

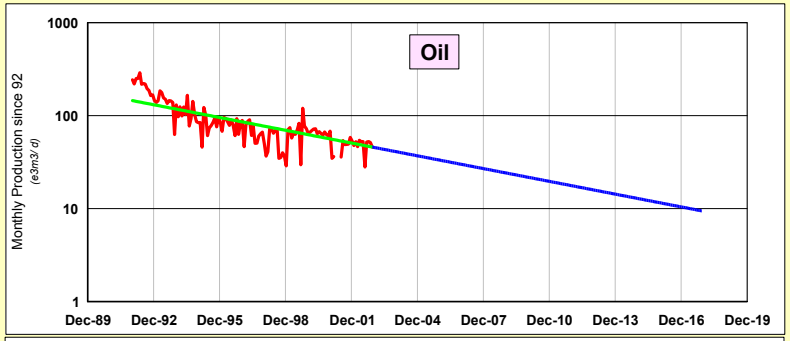
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

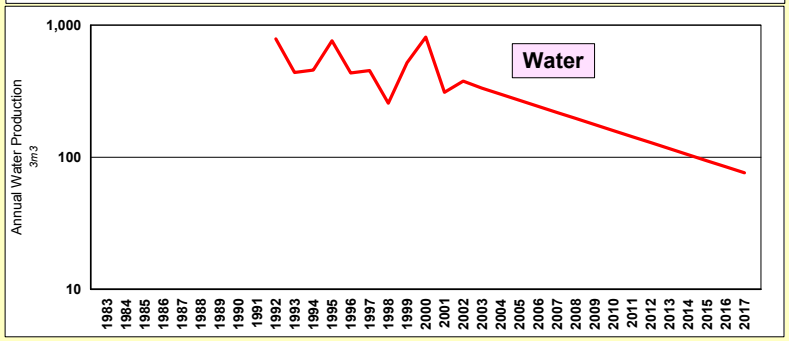
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 1080 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 46 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T007215**

Well Name: **PPC 12, Dover 6 - 6 - IVE**

Status: **Active Well**

MNR Pool: **Dover 7-5-VE**

TGI Pool: **Dover 7-5-V E Pool**

TGI Field: **Dover Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 282 | m3 per m3 | 654 | last year | |
| 2002 Water/Oil ratio: | 0.5968 | m3 per m3 | 0.2067 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.9126 | m3 per e3m3 | 0.7320 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **278** | m3/yr | **182** | e3m3/yr | **166** | m3/yr |
| Cumm to Date: | **22,046** | m3 | **4,027** | e3m3 | **1,686** | m3 |
| Remaining Recoverable: | **1,981** | m3 | **1,387** | e3m3 | **1,182** | m3 |
| Total Recovery: | **24,027** | m3 | **5,413** | e3m3 | **2,868** | m3 |
| Peak Rate: | 12.0 | m3/d | 2.0 | e3m3/d | based on annual | |
| Peak Rate: | 9.4 | m3/d | 23.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 9.9 | m3/d | 1.4 | e3m3/d | per day based on annual | |
| Current Rate: | 0.8 | m3/d | 0.5 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

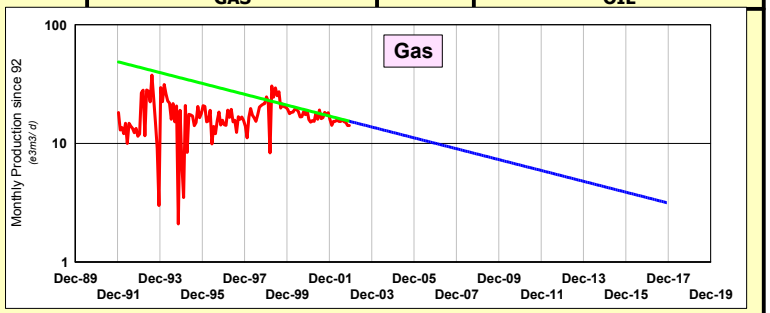
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 4,396 | 150 | 0 | 4,396 | 150 | 0 | 34 |
| 2 | 1989 | 3,622 | 516 | 0 | 8,018 | 666 | 0 | 143 |
| 3 | 1990 | 3,349 | 727 | 0 | 11,367 | 1,393 | 0 | 217 |
| 4 | 1991 | 2,523 | 330 | 0 | 13,889 | 1,723 | 0 | 131 |
| 5 | 1992 | 2,165 | 161 | 168 | 16,054 | 1,884 | 168 | 74 |
| 6 | 1993 | 1,366 | 245 | 84 | 17,420 | 2,130 | 253 | 180 |
| 7 | 1994 | 826 | 249 | 120 | 18,246 | 2,379 | 373 | 301 |
| 8 | 1995 | 841 | 176 | 149 | 19,087 | 2,554 | 522 | 209 |
| 9 | 1996 | 636 | 191 | 155 | 19,723 | 2,745 | 676 | 300 |
| 10 | 1997 | 551 | 192 | 121 | 20,274 | 2,937 | 798 | 349 |
| 11 | 1998 | 474 | 212 | 170 | 20,748 | 3,149 | 968 | 448 |
| 12 | 1999 | 320 | 274 | 197 | 21,067 | 3,424 | 1,165 | 859 |
| 13 | 2000 | 341 | 220 | 145 | 21,409 | 3,643 | 1,310 | 644 |
| 14 | 2001 | 360 | 202 | 210 | 21,768 | 3,845 | 1,520 | 560 |
| 15 | 2002 | 278 | 182 | 166 | 22,046 | 4,027 | 1,686 | 654 |
| 16 | 2003 | 249 | 175 | 149 | 22,296 | 4,201 | 1,835 | 700 |
| 17 | 2004 | 225 | 157 | 134 | 22,520 | 4,358 | 1,969 | 700 |
| 18 | 2005 | 202 | 141 | 121 | 22,722 | 4,500 | 2,090 | 700 |
| 19 | 2006 | 182 | 127 | 109 | 22,904 | 4,627 | 2,198 | 700 |
| 20 | 2007 | 164 | 115 | 98 | 23,068 | 4,742 | 2,296 | 700 |
| 21 | 2008 | 147 | 103 | 88 | 23,215 | 4,845 | 2,384 | 700 |
| 22 | 2009 | 133 | 93 | 79 | 23,348 | 4,938 | 2,463 | 700 |
| 23 | 2010 | 119 | 84 | 71 | 23,467 | 5,021 | 2,534 | 700 |
| 24 | 2011 | 107 | 75 | 64 | 23,574 | 5,096 | 2,598 | 700 |
| 25 | 2012 | 97 | 68 | 58 | 23,671 | 5,164 | 2,656 | 700 |
| 26 | 2013 | 87 | 61 | 52 | 23,758 | 5,225 | 2,708 | 700 |
| 27 | 2014 | 78 | 55 | 47 | 23,836 | 5,280 | 2,754 | 700 |
| 28 | 2015 | 70 | 49 | 42 | 23,907 | 5,329 | 2,797 | 700 |
| 29 | 2016 | 63 | 44 | 38 | 23,970 | 5,373 | 2,834 | 700 |
| 30 | 2017 | 57 | 40 | 34 | 24,027 | 5,413 | 2,868 | 700 |

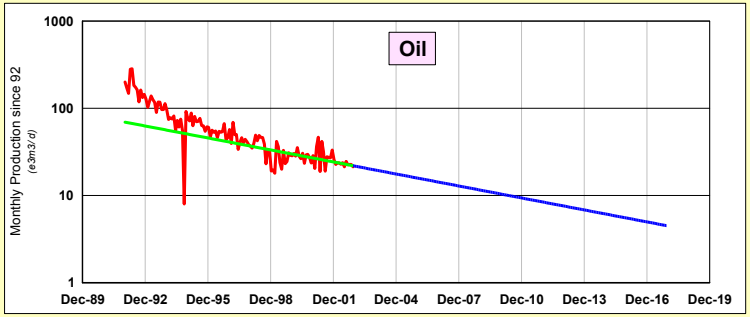
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

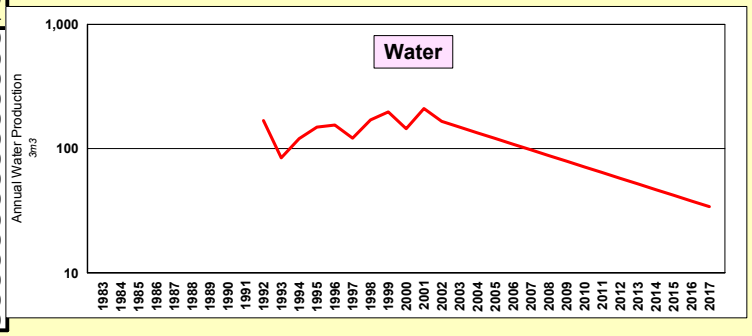
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

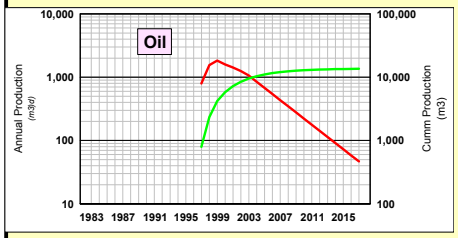
| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 700 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 22 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |

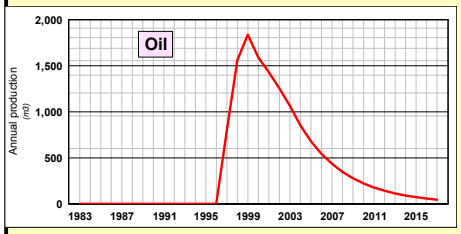


## Annual & Cumulative Production
*(since 1983)*



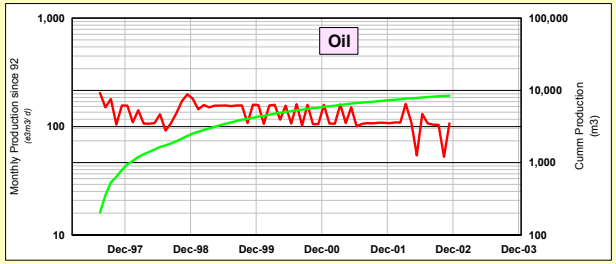

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

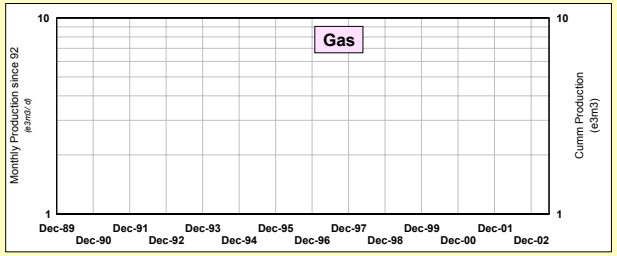
MNR Pool: **Gosfield South 2-24-V**
TGI Pool: **Gosfield South 2-24-V Pool**
TGI Field: **Wigle-Olinda Field**
No of Wells: **2**

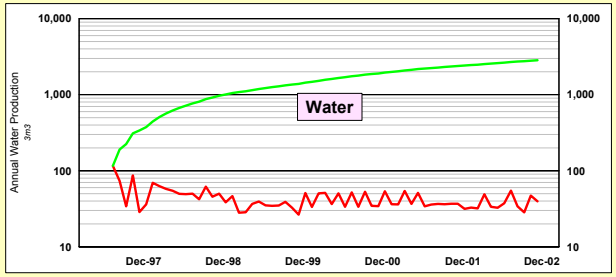
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 1,257 | m3/yr | 0 | e3m3/yr | 454 | m3/yr |
| Cumm to Date: | 8,471 | m3 | 0 | e3m3 | 2,846 | m3 |
| Remaining Recoverable: | 5,140 | m3 | 0 | e3m3 | 1,842 | m3 |
| Total Recovery: | 13,611 | m3 | 0 | e3m3 | 4,688 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 3 | m3/d | 0 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

| Wells Producing | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1 | 1997 | 795 | 0 | 340 | 795 | 0 | 340 | 0 |
| 2 | 2 | 1998 | 1,561 | 0 | 630 | 2,357 | 0 | 970 | 0 |
| 2 | 3 | 1999 | 1,838 | 0 | 421 | 4,195 | 0 | 1,391 | 0 |
| 2 | 4 | 2000 | 1,591 | 0 | 515 | 5,786 | 0 | 1,906 | 0 |
| 2 | 5 | 2001 | 1,429 | 0 | 486 | 7,215 | 0 | 2,392 | 0 |
| 2 | 6 | 2002 | 1,257 | 0 | 454 | 8,471 | 0 | 2,846 | 0 |
| | 7 | 2003 | 1,066 | 0 | 382 | 9,537 | 0 | 3,228 | 0 |
| | 8 | 2004 | 852 | 0 | 306 | 10,389 | 0 | 3,533 | 0 |
| | 9 | 2005 | 682 | 0 | 244 | 11,071 | 0 | 3,778 | 0 |
| | 10 | 2006 | 546 | 0 | 196 | 11,617 | 0 | 3,973 | 0 |
| | 11 | 2007 | 436 | 0 | 156 | 12,053 | 0 | 4,130 | 0 |
| | 12 | 2008 | 349 | 0 | 125 | 12,402 | 0 | 4,255 | 0 |
| | 13 | 2009 | 279 | 0 | 100 | 12,682 | 0 | 4,355 | 0 |
| | 14 | 2010 | 223 | 0 | 80 | 12,905 | 0 | 4,435 | 0 |
| | 15 | 2011 | 179 | 0 | 64 | 13,084 | 0 | 4,499 | 0 |
| | 16 | 2012 | 143 | 0 | 51 | 13,227 | 0 | 4,550 | 0 |
| | 17 | 2013 | 114 | 0 | 41 | 13,341 | 0 | 4,591 | 0 |
| | 18 | 2014 | 92 | 0 | 33 | 13,433 | 0 | 4,624 | 0 |
| | 19 | 2015 | 73 | 0 | 26 | 13,506 | 0 | 4,650 | 0 |
| | 20 | 2016 | 59 | 0 | 21 | 13,565 | 0 | 4,671 | 0 |
| | 21 | 2017 | 47 | 0 | 17 | 13,611 | 0 | 4,688 | 0 |
| | | To date: | 8,471 | 0 | 2,846 | | | | 0.0000 |

## Monthly Production vs Month
*(1992 to 2002)*



Well No.: **T008724**

Well Name: **Clearwood et al #14, Gosfield South 4 - 24 - V**

Status: **Active Well**

MNR Pool: **Gosfield South 2-24-V**

TGI Pool: **Gosfield South 2-24-V Pool**

TGI Field: **Wigle-Olinda Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0039 | m3 per m3 | 0.1829 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **243** | m3/yr | **0** | e3m3/yr | **1** | m3/yr |
| Cumm to Date: | **1,957** | m3 | **0** | e3m3 | **358** | m3 |
| Remaining Recoverable: | **1,028** | m3 | **0** | e3m3 | **4** | m3 |
| Tota Recoverable: | **2,985** | m3 | **0** | e3m3 | **362** | m3 |
| Peak Rate: | 2.1 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 3.4 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.1 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.7 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

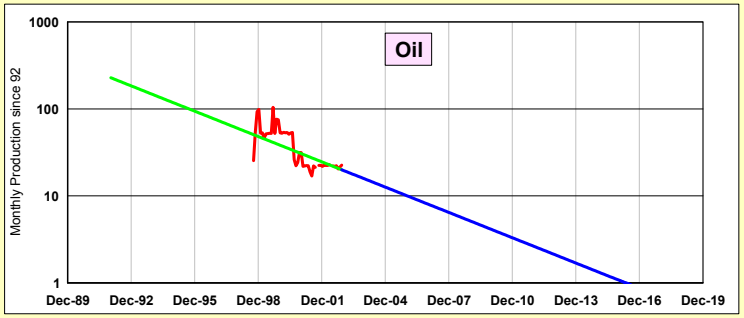
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1998 | 173 | 0 | 39 | 173 | 0 | 39 | 0 |
| 2 | 1999 | 767 | 0 | 81 | 940 | 0 | 120 | 0 |
| 3 | 2000 | 529 | 0 | 153 | 1,469 | 0 | 274 | 0 |
| 4 | 2001 | 245 | 0 | 83 | 1,714 | 0 | 357 | 0 |
| 5 | 2002 | 243 | 0 | 1 | 1,957 | 0 | 358 | 0 |
| 6 | 2003 | 213 | 0 | 1 | 2,170 | 0 | 359 | 0 |
| 7 | 2004 | 170 | 0 | 1 | 2,340 | 0 | 359 | 0 |
| 8 | 2005 | 136 | 0 | 1 | 2,477 | 0 | 360 | 0 |
| 9 | 2006 | 109 | 0 | 0 | 2,586 | 0 | 360 | 0 |
| 10 | 2007 | 87 | 0 | 0 | 2,673 | 0 | 361 | 0 |
| 11 | 2008 | 70 | 0 | 0 | 2,743 | 0 | 361 | 0 |
| 12 | 2009 | 56 | 0 | 0 | 2,799 | 0 | 361 | 0 |
| 13 | 2010 | 45 | 0 | 0 | 2,843 | 0 | 361 | 0 |
| 14 | 2011 | 36 | 0 | 0 | 2,879 | 0 | 362 | 0 |
| 15 | 2012 | 29 | 0 | 0 | 2,908 | 0 | 362 | 0 |
| 16 | 2013 | 23 | 0 | 0 | 2,931 | 0 | 362 | 0 |
| 17 | 2014 | 18 | 0 | 0 | 2,949 | 0 | 362 | 0 |
| 18 | 2015 | 15 | 0 | 0 | 2,964 | 0 | 362 | 0 |
| 19 | 2016 | 12 | 0 | 0 | 2,975 | 0 | 362 | 0 |
| 20 | 2017 | 9 | 0 | 0 | 2,985 | 0 | 362 | 0 |

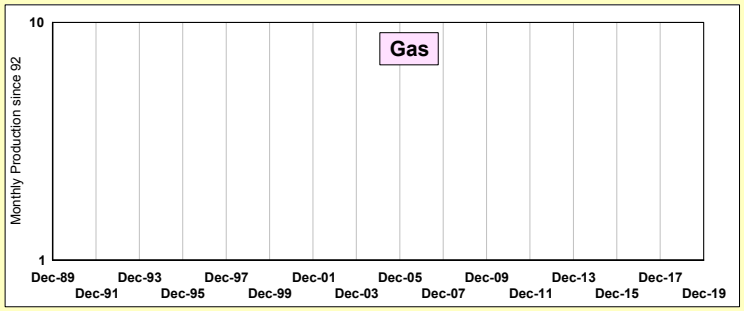
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

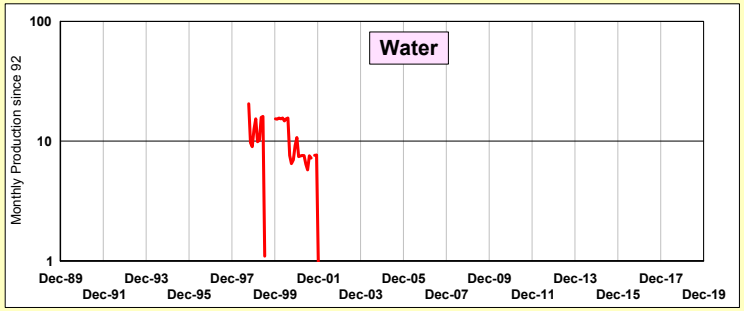
## Monthly Production vs Month + Forecast
*(since 1992)*

**Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 20 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008494**

Well Name: **Clearwood, Gosfield South 2 - 24 - V**

Status: **Active Well**

MNR Pool: **Gosfield South 2-24-V**

TGI Pool: **Gosfield South 2-24-V Pool**

TGI Field: **Wigle-Olinda Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.4471 | m3 per m3 | | 0.3819 | last 10 years |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,013** | m3/yr | **0** | e3m3/yr | **453** | m3/yr |
| Cumm to Date: | **6,514** | m3 | **0** | e3m3 | **2,488** | m3 |
| Remaining Recoverable: | **4,112** | m3 | **0** | e3m3 | **1,838** | m3 |
| Tota Recoverable: | **10,627** | m3 | **0** | e3m3 | **4,326** | m3 |
| Peak Rate: | 3.8 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 6.7 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.8 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 2.8 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

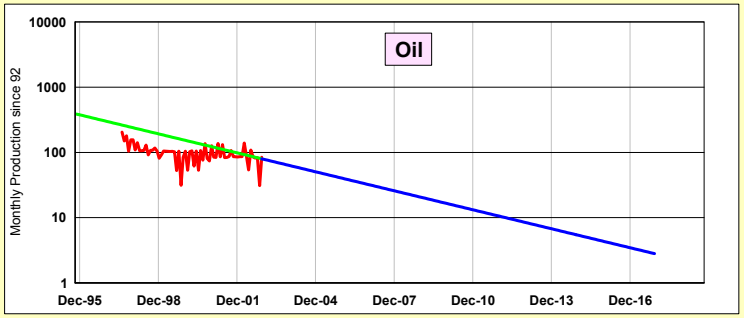
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1997 | 795 | 0 | 340 | 795 | 0 | 340 | 0 |
| 2 | 1998 | 1,388 | 0 | 591 | 2,184 | 0 | 931 | 0 |
| 3 | 1999 | 1,071 | 0 | 340 | 3,255 | 0 | 1,271 | 0 |
| 4 | 2000 | 1,062 | 0 | 361 | 4,317 | 0 | 1,632 | 0 |
| 5 | 2001 | 1,184 | 0 | 403 | 5,501 | 0 | 2,035 | 0 |
| 6 | 2002 | 1,013 | 0 | 453 | 6,514 | 0 | 2,488 | 0 |
| 7 | 2003 | 852 | 0 | 381 | 7,367 | 0 | 2,869 | 0 |
| 8 | 2004 | 682 | 0 | 305 | 8,049 | 0 | 3,174 | 0 |
| 9 | 2005 | 546 | 0 | 244 | 8,594 | 0 | 3,418 | 0 |
| 10 | 2006 | 436 | 0 | 195 | 9,031 | 0 | 3,613 | 0 |
| 11 | 2007 | 349 | 0 | 156 | 9,380 | 0 | 3,769 | 0 |
| 12 | 2008 | 279 | 0 | 125 | 9,659 | 0 | 3,894 | 0 |
| 13 | 2009 | 223 | 0 | 100 | 9,883 | 0 | 3,994 | 0 |
| 14 | 2010 | 179 | 0 | 80 | 10,062 | 0 | 4,074 | 0 |
| 15 | 2011 | 143 | 0 | 64 | 10,205 | 0 | 4,138 | 0 |
| 16 | 2012 | 114 | 0 | 51 | 10,319 | 0 | 4,189 | 0 |
| 17 | 2013 | 92 | 0 | 41 | 10,411 | 0 | 4,230 | 0 |
| 18 | 2014 | 73 | 0 | 33 | 10,484 | 0 | 4,262 | 0 |
| 19 | 2015 | 59 | 0 | 26 | 10,542 | 0 | 4,289 | 0 |
| 20 | 2016 | 47 | 0 | 21 | 10,589 | 0 | 4,310 | 0 |
| 21 | 2017 | 37 | 0 | 17 | 10,627 | 0 | 4,326 | 0 |

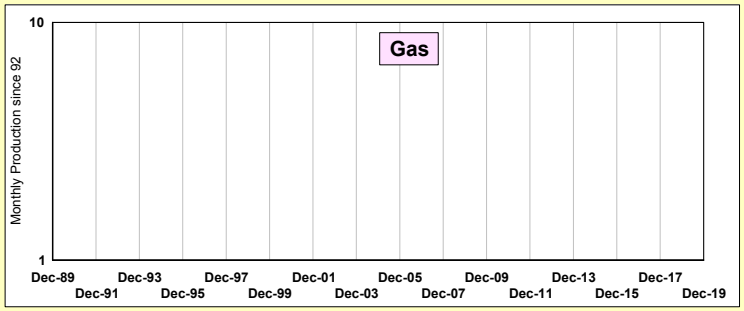
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

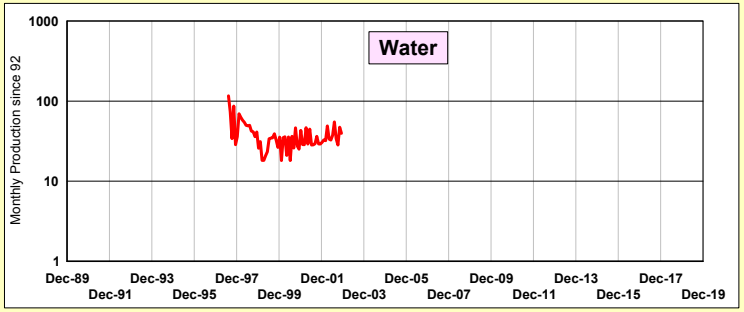
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 80 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007636**

Well Name: **Ram BP et al 12, Mersea 5 - 15 - VIII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 145 | m3 per m3 | 210 | last year | |
| 2002 Water/Oil ratio: | 1.1235 | m3 per m3 | 0.3744 | last 10 years | |
| 2002 Water/ Gas Ratio: | 5.3608 | m3 per e3m3 | 2.5809 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **653** | m3/yr | **137** | e3m3/yr | **734** | m3/yr |
| Cumm to Date: | **39,837** | m3 | **4,292** | e3m3 | **11,077** | m3 |
| Remaining Recoverable: | **5,403** | m3 | **1,081** | e3m3 | **6,070** | m3 |
| Total Recovery: | **45,240** | m3 | **5,373** | e3m3 | **17,147** | m3 |
| Peak Rate: | 20.9 | m3/d | 4.0 | e3m3/d | based on annual | |
| Peak Rate: | 29.4 | m3/d | 4.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 19.3 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 1.8 | m3/d | 0.4 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1990 | 3,185 | 0 | 0 | 3,185 | 0 | 0 | 0 |
| 2 | 1991 | 7,066 | 0 | 0 | 10,250 | 0 | 0 | 0 |
| 3 | 1992 | 7,633 | 293 | 1,556 | 17,884 | 293 | 1,556 | 38 |
| 4 | 1993 | 6,776 | 1,457 | 1,576 | 24,660 | 1,750 | 3,132 | 215 |
| 5 | 1994 | 4,362 | 892 | 1,363 | 29,021 | 2,642 | 4,495 | 204 |
| 6 | 1995 | 2,842 | 368 | 1,195 | 31,864 | 3,010 | 5,690 | 130 |
| 7 | 1996 | 1,834 | 5 | 733 | 33,697 | 3,015 | 6,423 | 2 |
| 8 | 1997 | 1,378 | 301 | 818 | 35,075 | 3,316 | 7,241 | 218 |
| 9 | 1998 | 1,182 | 231 | 592 | 36,257 | 3,547 | 7,833 | 195 |
| 10 | 1999 | 1,018 | 237 | 976 | 37,275 | 3,784 | 8,809 | 233 |
| 11 | 2000 | 1,008 | 193 | 560 | 38,283 | 3,977 | 9,369 | 191 |
| 12 | 2001 | 900 | 179 | 974 | 39,183 | 4,155 | 10,343 | 198 |
| 13 | 2002 | 653 | 137 | 734 | 39,837 | 4,292 | 11,077 | 210 |
| 14 | 2003 | 680 | 136 | 764 | 40,517 | 4,428 | 11,842 | 200 |
| 15 | 2004 | 612 | 122 | 688 | 41,129 | 4,551 | 12,529 | 200 |
| 16 | 2005 | 551 | 110 | 619 | 41,680 | 4,661 | 13,149 | 200 |
| 17 | 2006 | 496 | 99 | 557 | 42,176 | 4,760 | 13,706 | 200 |
| 18 | 2007 | 446 | 89 | 502 | 42,623 | 4,849 | 14,207 | 200 |
| 19 | 2008 | 402 | 80 | 451 | 43,025 | 4,930 | 14,659 | 200 |
| 20 | 2009 | 362 | 72 | 406 | 43,386 | 5,002 | 15,065 | 200 |
| 21 | 2010 | 325 | 65 | 366 | 43,712 | 5,067 | 15,431 | 200 |
| 22 | 2011 | 293 | 59 | 329 | 44,004 | 5,126 | 15,760 | 200 |
| 23 | 2012 | 264 | 53 | 296 | 44,268 | 5,178 | 16,056 | 200 |
| 24 | 2013 | 237 | 47 | 267 | 44,505 | 5,226 | 16,323 | 200 |
| 25 | 2014 | 214 | 43 | 240 | 44,719 | 5,268 | 16,562 | 200 |
| 26 | 2015 | 192 | 38 | 216 | 44,911 | 5,307 | 16,778 | 200 |
| 27 | 2016 | 173 | 35 | 194 | 45,084 | 5,341 | 16,973 | 200 |
| 28 | 2017 | 156 | 31 | 175 | 45,240 | 5,373 | 17,147 | 200 |

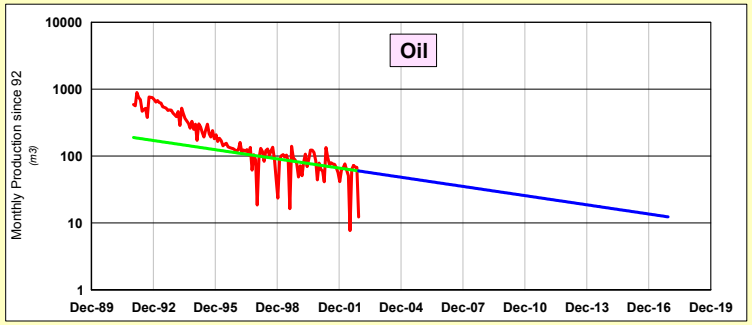
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

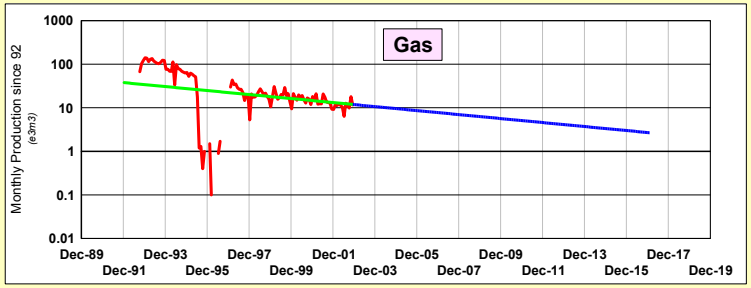
Revised May 27th 2004

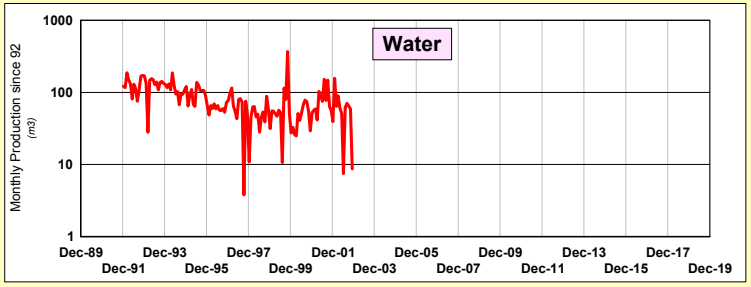
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 200 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 60 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | 0.0087 | per month | Decline Factor: | 0.0087 | per month |



Well No.: **T007630**

Well Name: **Telesis et al 34156, Mersea 8 - 17 - VIII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 142 | m3 per m3 | 178 | last year |
| 2002 Water/Oil ratio: | 4.9873 | m3 per m3 | 1.0966 | last 10 years |
| 2002 Water/ Gas Ratio: | 27.9697 | m3 per e3m3 | 7.6962 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **371** | m3/yr | **66** | e3m3/yr | **1,849** | m3/yr |
| Cumm to Date: | **29,701** | m3 | **2,961** | e3m3 | **22,786** | m3 |
| Remaining Recoverable: | **1,017** | m3 | **183** | e3m3 | **5,070** | m3 |
| Total Recovery: | **30,717** | m3 | **3,144** | e3m3 | **27,857** | m3 |
| Peak Rate: | 14.9 | m3/d | 1.8 | e3m3/d | based on annual | |
| Peak Rate: | 20.5 | m3/d | 2.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 14.9 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 1.0 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1990 | 3,475 | 0 | 0 | 3,475 | 0 | 0 | 0 |
| 2 | 1991 | 5,446 | 0 | 0 | 8,921 | 0 | 0 | 0 |
| 3 | 1992 | 2,939 | 224 | 234 | 11,859 | 224 | 234 | 76 |
| 4 | 1993 | 4,766 | 511 | 1,955 | 16,625 | 736 | 2,189 | 107 |
| 5 | 1994 | 3,686 | 640 | 6,715 | 20,311 | 1,375 | 8,904 | 174 |
| 6 | 1995 | 2,523 | 519 | 1,431 | 22,834 | 1,895 | 10,335 | 206 |
| 7 | 1996 | 2,303 | 315 | 1,459 | 25,137 | 2,210 | 11,794 | 137 |
| 8 | 1997 | 1,524 | 239 | 1,799 | 26,662 | 2,448 | 13,593 | 157 |
| 9 | 1998 | 971 | 150 | 1,877 | 27,632 | 2,599 | 15,470 | 155 |
| 10 | 1999 | 752 | 135 | 1,670 | 28,384 | 2,733 | 17,140 | 179 |
| 11 | 2000 | 559 | 96 | 1,789 | 28,943 | 2,829 | 18,930 | 171 |
| 12 | 2001 | 387 | 66 | 2,008 | 29,330 | 2,895 | 20,938 | 169 |
| 13 | 2002 | 371 | 66 | 1,849 | 29,701 | 2,961 | 22,786 | 178 |
| 14 | 2003 | 258 | 46 | 1,285 | 29,958 | 3,007 | 24,071 | 180 |
| 15 | 2004 | 193 | 35 | 964 | 30,152 | 3,042 | 25,035 | 180 |
| 16 | 2005 | 145 | 26 | 723 | 30,296 | 3,068 | 25,757 | 180 |
| 17 | 2006 | 109 | 20 | 542 | 30,405 | 3,088 | 26,299 | 180 |
| 18 | 2007 | 82 | 15 | 406 | 30,487 | 3,102 | 26,706 | 180 |
| 19 | 2008 | 61 | 11 | 305 | 30,548 | 3,113 | 27,011 | 180 |
| 20 | 2009 | 46 | 8 | 229 | 30,594 | 3,121 | 27,239 | 180 |
| 21 | 2010 | 34 | 6 | 171 | 30,628 | 3,128 | 27,411 | 180 |
| 22 | 2011 | 26 | 5 | 129 | 30,654 | 3,132 | 27,539 | 180 |
| 23 | 2012 | 19 | 3 | 96 | 30,673 | 3,136 | 27,636 | 180 |
| 24 | 2013 | 15 | 3 | 72 | 30,688 | 3,138 | 27,708 | 180 |
| 25 | 2014 | 11 | 2 | 54 | 30,698 | 3,140 | 27,762 | 180 |
| 26 | 2015 | 8 | 1 | 41 | 30,707 | 3,142 | 27,803 | 180 |
| 27 | 2016 | 6 | 1 | 31 | 30,713 | 3,143 | 27,834 | 180 |
| 28 | 2017 | 5 | 1 | 23 | 30,717 | 3,144 | 27,857 | 180 |

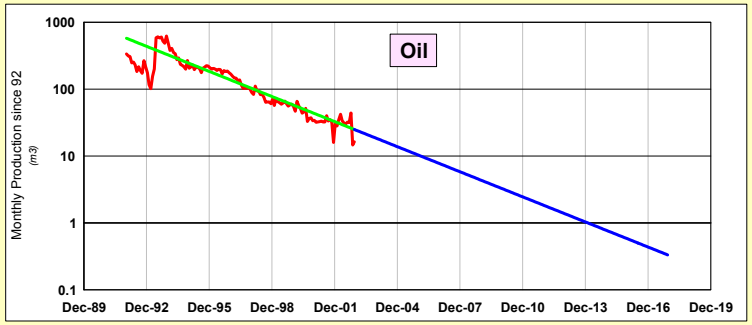
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

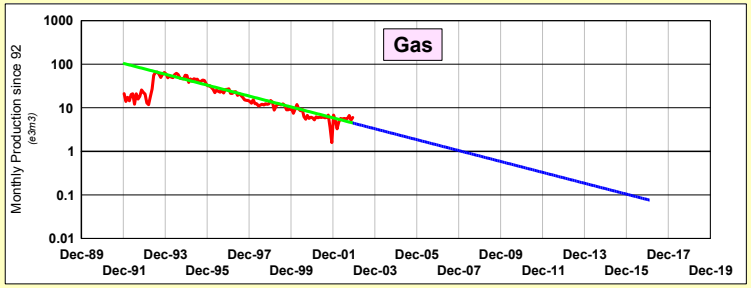
Revised May 27th 2004

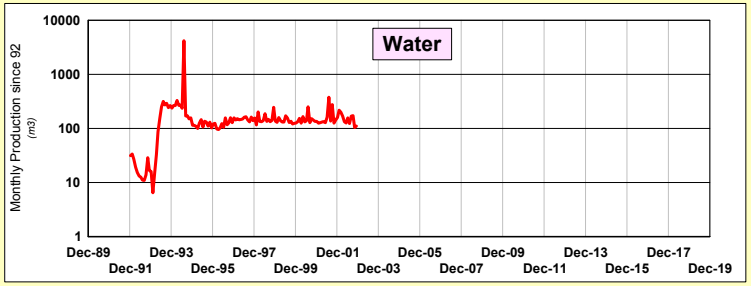
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 180 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 25 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T007629**

Well Name: **Telesis et al 34155, Mersea 4 - 21 - VII**

Status: **Abandoned Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 179 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 82.6000 | m3 per m3 | 1.3855 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 7.7265 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1** | m3/yr | **0** | e3m3/yr | **41** | m3/yr |
| Cumm to Date: | **23,071** | m3 | **1,898** | e3m3 | **14,661** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **23,071** | m3 | **1,898** | e3m3 | **14,661** | m3 |
| Peak Rate: | 23.6 | m3/d | 1.5 | e3m3/d | based on annual | |
| Peak Rate: | 17.0 | m3/d | 6.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 23.6 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

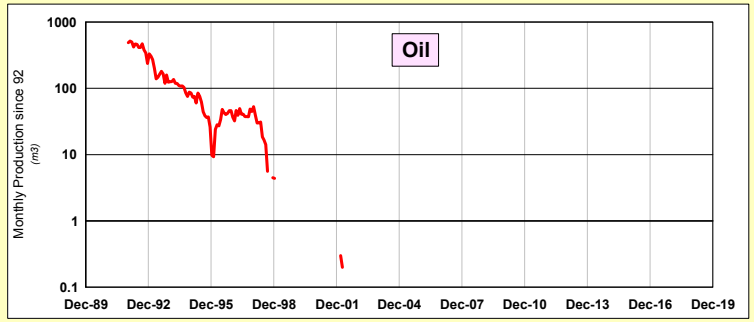
## Monthly Production vs Month + Forecast
*(since 1992)*

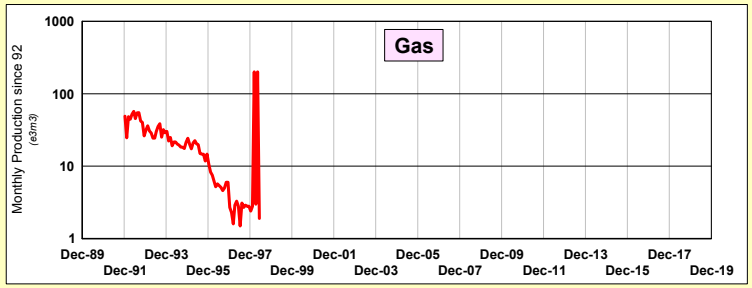
Basis---> **Oil**

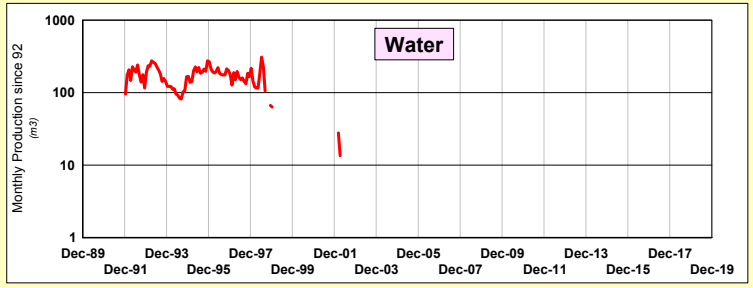
| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | **0.0000** | per month | Decline Factor: | **0.0000** | per month |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1990 | 3,883 | 0 | 0 | 3,883 | 0 | 0 | 0 |
| 2 | 1991 | 8,606 | 0 | 0 | 12,489 | 0 | 0 | 0 |
| 3 | 1992 | 5,118 | 539 | 2,104 | 17,607 | 539 | 2,104 | 105 |
| 4 | 1993 | 2,308 | 367 | 2,513 | 19,915 | 906 | 4,617 | 159 |
| 5 | 1994 | 1,307 | 256 | 1,320 | 21,221 | 1,162 | 5,937 | 196 |
| 6 | 1995 | 700 | 217 | 2,357 | 21,922 | 1,378 | 8,294 | 309 |
| 7 | 1996 | 398 | 76 | 2,407 | 22,320 | 1,454 | 10,701 | 190 |
| 8 | 1997 | 492 | 31 | 1,946 | 22,812 | 1,485 | 12,647 | 64 |
| 9 | 1998 | 243 | 412 | 1,612 | 23,055 | 1,898 | 14,259 | 1,693 |
| 10 | 1999 | 7 | 0 | 193 | 23,063 | 1,898 | 14,452 | 0 |
| 11 | 2000 | 6 | 0 | 97 | 23,069 | 1,898 | 14,549 | 0 |
| 12 | 2001 | 2 | 0 | 71 | 23,070 | 1,898 | 14,620 | 0 |
| 13 | 2002 | 1 | 0 | 41 | 23,071 | 1,898 | 14,661 | 0 |
| 13 | 2003 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2004 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2005 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2006 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2007 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2008 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2009 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2010 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2011 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2012 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2013 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2014 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2015 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2016 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |
| 13 | 2017 | 0 | 0 | 0 | 23,071 | 1,898 | 14,661 | ERR |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*



Well No.: **T007484**

Well Name: **Telesis et al 34153, Mersea 2 - 21 - VII**

Status: **Abandoned**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 120 | m3 per m3 | 317 | last year | |
| 2002 Water/Oil ratio: | 1020 | m3 per m3 | 12 | last 10 years | |
| 2002 Water/ Gas Ratio: | 3221 | m3 per e3m3 | 102 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 6 | m3/yr | 2 | e3m3/yr | 6,119 | m3/yr |
| Cumm to Date: | 25,843 | m3 | 1,573 | e3m3 | 160,629 | m3 |
| Remaining Recoverable: | 0 | m3 | 0 | e3m3 | 0 | m3 |
| Total Recovery: | 25,843 | m3 | 1,573 | e3m3 | 160,629 | m3 |
| Peak Rate: | 19.5 | m3/d | 0.8 | e3m3/d | based on annual | |
| Peak Rate: | 15.2 | m3/d | 1.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 19.5 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

| Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 800 | 0 | 0 | 800 | 0 | 0 | 0 |
| 2 | 1990 | 7,131 | 0 | 0 | 7,931 | 0 | 0 | 0 |
| 3 | 1991 | 4,829 | 0 | 0 | 12,759 | 0 | 0 | 0 |
| 4 | 1992 | 3,026 | 242 | 12,165 | 15,785 | 242 | 12,165 | 80 |
| 5 | 1993 | 1,370 | 157 | 9,405 | 17,155 | 399 | 21,570 | 115 |
| 6 | 1994 | 1,299 | 282 | 13,065 | 18,454 | 681 | 34,635 | 217 |
| 7 | 1995 | 1,664 | 248 | 15,316 | 20,118 | 929 | 49,951 | 149 |
| 8 | 1996 | 1,554 | 133 | 16,422 | 21,672 | 1,061 | 66,373 | 85 |
| 9 | 1997 | 1,376 | 150 | 15,027 | 23,048 | 1,211 | 81,400 | 109 |
| 10 | 1998 | 1,037 | 83 | 16,877 | 24,086 | 1,294 | 98,277 | 80 |
| 11 | 1999 | 774 | 111 | 18,851 | 24,859 | 1,405 | 117,127 | 144 |
| 12 | 2000 | 515 | 80 | 16,973 | 25,374 | 1,485 | 134,100 | 155 |
| 13 | 2001 | 462 | 86 | 20,410 | 25,837 | 1,571 | 154,510 | 186 |
| 14 | 2002 | 6 | 2 | 6,119 | 25,843 | 1,573 | 160,629 | 317 |
| 14 | 2003 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2004 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2005 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2006 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2007 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2008 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2009 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2010 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2011 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2012 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2013 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2014 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2015 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2016 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |
| 14 | 2017 | 0 | 0 | 0 | 25,843 | 1,573 | 160,629 | ERR |

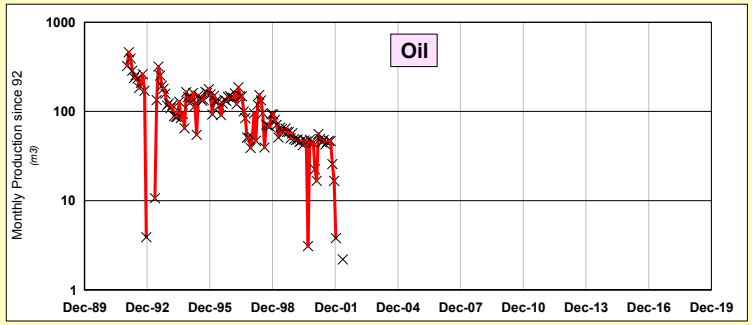
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

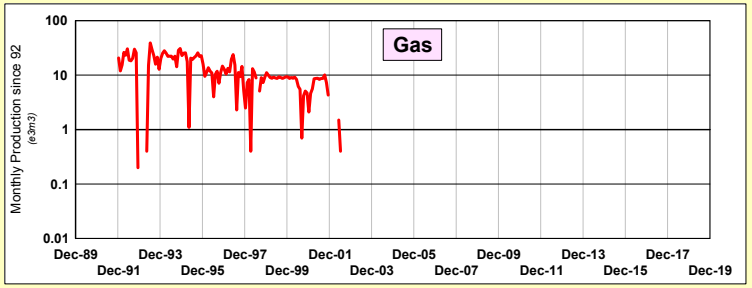
Revised May 27th 2004

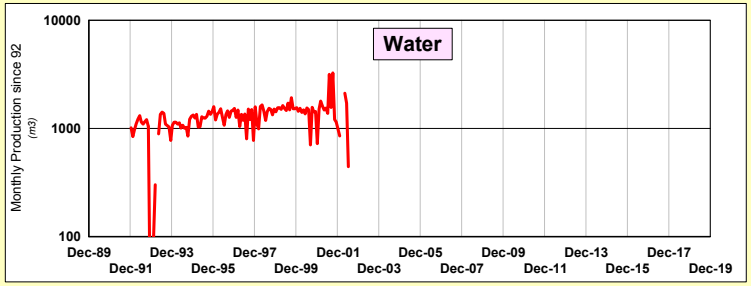
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 300 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | 0.0000 | per month | Decline Factor: | 0.0000 | per month |



Well No.: **T007409**

Well Name: **Cons et al 34152, Mersea 7 - 17 - VIII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 171 | m3 per m3 | 591 | last year | |
| 2002 Water/Oil ratio: | 7.9529 | m3 per m3 | 3.4729 | last 10 years | |
| 2002 Water/ Gas Ratio: | 13.4470 | m3 per e3m3 | 20.3666 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **261** | m3/yr | **155** | e3m3/yr | **2,079** | m3/yr |
| Cumm to Date: | **51,475** | m3 | **3,798** | e3m3 | **77,357** | m3 |
| Total Recovery: | **627** | m3 | **376** | e3m3 | **4,985** | m3 |
| Total Recovery: | **52,102** | m3 | **4,174** | e3m3 | **82,342** | m3 |
| Peak Rate: | 35.7 | m3/d | 1.8 | e3m3/d | based on annual | |
| Peak Rate: | 18.1 | m3/d | 2.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 35.7 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.7 | m3/d | 0.4 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

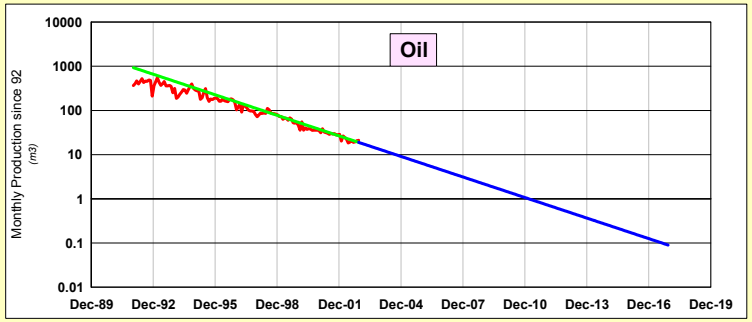
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 61 | 0 | 0 | 61 | 0 | 0 | 0 |
| 2 | 1989 | 13,035 | 0 | 0 | 13,096 | 0 | 0 | 0 |
| 3 | 1990 | 10,143 | 0 | 0 | 23,239 | 0 | 0 | 0 |
| 4 | 1991 | 5,962 | 0 | 0 | 29,201 | 0 | 0 | 0 |
| 5 | 1992 | 5,149 | 397 | 9,974 | 34,350 | 397 | 9,974 | 77 |
| 6 | 1993 | 4,717 | 450 | 9,136 | 39,067 | 848 | 19,110 | 95 |
| 7 | 1994 | 3,398 | 675 | 11,617 | 42,465 | 1,522 | 30,727 | 198 |
| 8 | 1995 | 2,710 | 581 | 11,398 | 45,175 | 2,103 | 42,125 | 214 |
| 9 | 1996 | 2,063 | 378 | 9,878 | 47,238 | 2,481 | 52,003 | 183 |
| 10 | 1997 | 1,306 | 278 | 6,918 | 48,544 | 2,759 | 58,921 | 213 |
| 11 | 1998 | 1,053 | 423 | 5,547 | 49,597 | 3,183 | 64,468 | 402 |
| 12 | 1999 | 773 | 164 | 4,290 | 50,370 | 3,346 | 68,758 | 212 |
| 13 | 2000 | 469 | 152 | 3,364 | 50,839 | 3,499 | 72,122 | 325 |
| 14 | 2001 | 375 | 145 | 3,156 | 51,214 | 3,644 | 75,278 | 387 |
| 15 | 2002 | 261 | 155 | 2,079 | 51,475 | 3,798 | 77,357 | 591 |
| 16 | 2003 | 189 | 113 | 1,503 | 51,664 | 3,912 | 78,859 | 600 |
| 17 | 2004 | 132 | 79 | 1,052 | 51,796 | 3,991 | 79,911 | 600 |
| 18 | 2005 | 93 | 56 | 736 | 51,889 | 4,046 | 80,648 | 600 |
| 19 | 2006 | 65 | 39 | 515 | 51,954 | 4,085 | 81,163 | 600 |
| 20 | 2007 | 45 | 27 | 361 | 51,999 | 4,113 | 81,524 | 600 |
| 21 | 2008 | 32 | 19 | 253 | 52,031 | 4,132 | 81,776 | 600 |
| 22 | 2009 | 22 | 13 | 177 | 52,053 | 4,145 | 81,953 | 600 |
| 23 | 2010 | 16 | 9 | 124 | 52,069 | 4,154 | 82,077 | 600 |
| 24 | 2011 | 11 | 7 | 87 | 52,080 | 4,161 | 82,163 | 600 |
| 25 | 2012 | 8 | 5 | 61 | 52,087 | 4,165 | 82,224 | 600 |
| 26 | 2013 | 5 | 3 | 42 | 52,093 | 4,169 | 82,267 | 600 |
| 27 | 2014 | 4 | 2 | 30 | 52,096 | 4,171 | 82,296 | 600 |
| 28 | 2015 | 3 | 2 | 21 | 52,099 | 4,172 | 82,317 | 600 |
| 29 | 2016 | 2 | 1 | 15 | 52,101 | 4,174 | 82,332 | 600 |
| 30 | 2017 | 1 | 1 | 10 | 52,102 | 4,174 | 82,342 | 600 |

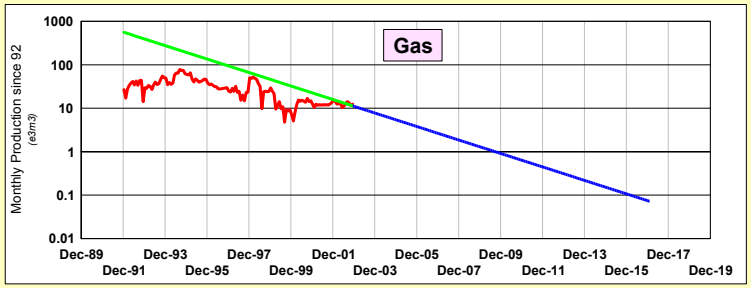
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

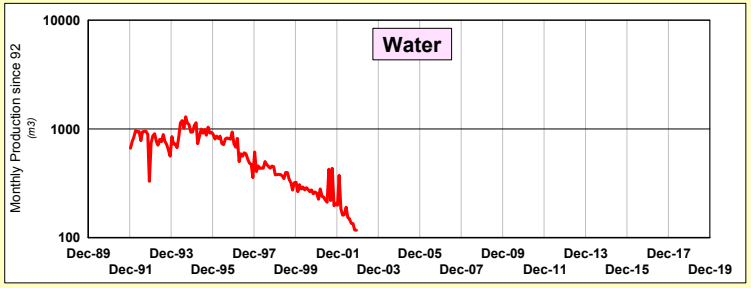
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 600 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 19 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | 0.0293 | per month | Decline Factor: | 0.0293 | per month |



Well No.: **T007330**

Well Name: **Ram/BP 3, Mersea 6 - 16 - VIII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 249 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 1.8758 | m3 per m3 | 0.5666 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 2.2774 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **47** | m3/yr | **0** | e3m3/yr | **88** | m3/yr |
| Cumm to Date: | **27,442** | m3 | **2,628** | e3m3 | **5,984** | m3 |
| Remaining Recoverable: | **82** | m3 | **0** | e3m3 | **154** | m3 |
| Total Recovery: | **27,524** | m3 | **2,628** | e3m3 | **6,137** | m3 |
| Peak Rate: | 19.6 | m3/d | 2.2 | e3m3/d | based on annual | |
| Peak Rate: | 10.0 | m3/d | 2.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 12.9 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.1 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 35% | | annually | | | |

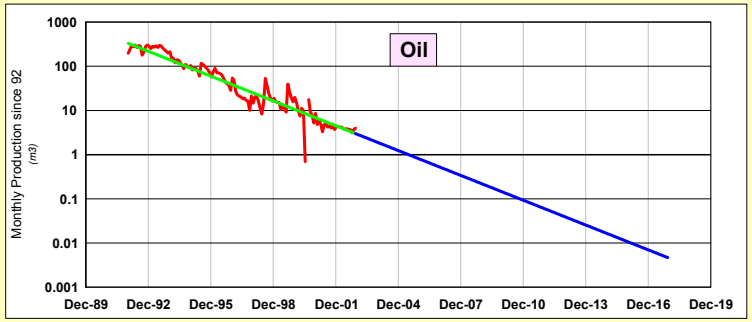
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 1,148 | 0 | 0 | 1,148 | 0 | 0 | 0 |
| 2 | 1989 | 4,694 | 0 | 0 | 5,842 | 0 | 0 | 0 |
| 3 | 1990 | 7,155 | 0 | 0 | 12,997 | 0 | 0 | 0 |
| 4 | 1991 | 3,884 | 0 | 0 | 16,881 | 0 | 0 | 0 |
| 5 | 1992 | 3,127 | 147 | 1,529 | 20,007 | 147 | 1,529 | 47 |
| 6 | 1993 | 3,140 | 793 | 1,535 | 23,147 | 940 | 3,064 | 253 |
| 7 | 1994 | 1,534 | 539 | 796 | 24,682 | 1,479 | 3,860 | 351 |
| 8 | 1995 | 1,080 | 424 | 675 | 25,762 | 1,903 | 4,535 | 392 |
| 9 | 1996 | 700 | 271 | 500 | 26,461 | 2,173 | 5,035 | 387 |
| 10 | 1997 | 295 | 110 | 257 | 26,756 | 2,283 | 5,292 | 372 |
| 11 | 1998 | 257 | 125 | 213 | 27,013 | 2,408 | 5,505 | 487 |
| 12 | 1999 | 209 | 134 | 169 | 27,223 | 2,542 | 5,674 | 638 |
| 13 | 2000 | 114 | 86 | 115 | 27,336 | 2,628 | 5,788 | 755 |
| 14 | 2001 | 59 | 0 | 108 | 27,395 | 2,628 | 5,896 | 0 |
| 15 | 2002 | 47 | 0 | 88 | 27,442 | 2,628 | 5,984 | 0 |
| 16 | 2003 | 29 | 0 | 54 | 27,471 | 2,628 | 6,038 | 0 |
| 17 | 2004 | 19 | 0 | 35 | 27,489 | 2,628 | 6,073 | 0 |
| 18 | 2005 | 12 | 0 | 23 | 27,501 | 2,628 | 6,095 | 0 |
| 19 | 2006 | 8 | 0 | 15 | 27,509 | 2,628 | 6,110 | 0 |
| 20 | 2007 | 5 | 0 | 10 | 27,514 | 2,628 | 6,120 | 0 |
| 21 | 2008 | 3 | 0 | 6 | 27,518 | 2,628 | 6,126 | 0 |
| 22 | 2009 | 2 | 0 | 4 | 27,520 | 2,628 | 6,130 | 0 |
| 23 | 2010 | 1 | 0 | 3 | 27,521 | 2,628 | 6,133 | 0 |
| 24 | 2011 | 1 | 0 | 2 | 27,522 | 2,628 | 6,135 | 0 |
| 25 | 2012 | 1 | 0 | 1 | 27,523 | 2,628 | 6,136 | 0 |
| 26 | 2013 | 0 | 0 | 1 | 27,523 | 2,628 | 6,136 | 0 |
| 27 | 2014 | 0 | 0 | 0 | 27,523 | 2,628 | 6,137 | 0 |
| 28 | 2015 | 0 | 0 | 0 | 27,524 | 2,628 | 6,137 | 0 |
| 29 | 2016 | 0 | 0 | 0 | 27,524 | 2,628 | 6,137 | 0 |
| 30 | 2017 | 0 | 0 | 0 | 27,524 | 2,628 | 6,137 | 0 |

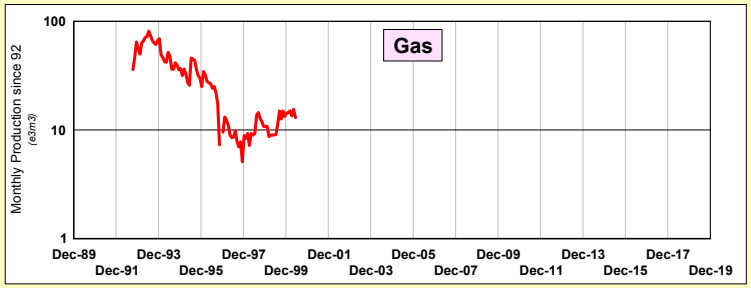
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

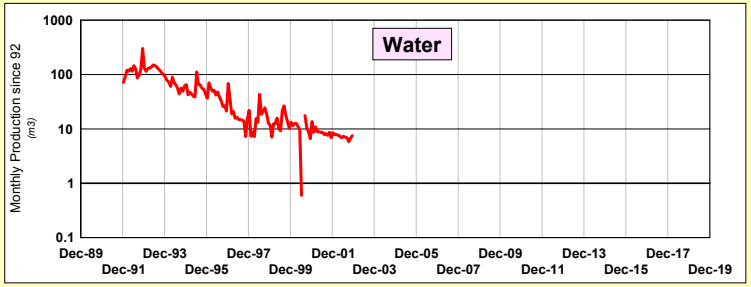
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 3 | m3/mo. |
| Decline Rate: | 35% | per year | Decline Rate: | 35% | per year |
| Decline Factor: | **0.0353** | per month | Decline Factor: | **0.0353** | per month |



Well No.: **T007242**

Well Name: **Cons et al 34151, Mersea 7 - 18 - VIII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 217 | m3 per m3 | 176 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.7439 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 3.4298 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **53** | m3/yr | **9** | e3m3/yr | **106** | m3/yr |
| Cumm to Date: | **156** | m3 | **34** | e3m3 | **116** | m3 |
| Remaining Recoverable: | **151** | m3 | **38** | e3m3 | **0** | m3 |
| Total Recovery: | **308** | m3 | **72** | e3m3 | **116** | m3 |
| Peak Rate: | 0.2 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 1.0 | m3/d | 0.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.2 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.1 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 50% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1992 | 37 | 5 | 8 | 37 | 5 | 8 | 123 |
| 2 | 1993 | 66 | 20 | 2 | 103 | 25 | 10 | 303 |
| 2 | 1994 | 0 | 0 | 0 | 103 | 25 | 10 | ERR |
| 2 | 1995 | 0 | 0 | 0 | 103 | 25 | 10 | ERR |
| 2 | 1996 | 0 | 0 | 0 | 103 | 25 | 10 | ERR |
| 2 | 1997 | 0 | 0 | 0 | 103 | 25 | 10 | ERR |
| 2 | 1998 | 0 | 0 | 0 | 103 | 25 | 10 | ERR |
| 2 | 1999 | 0 | 0 | 0 | 103 | 25 | 10 | ERR |
| 2 | 2000 | 0 | 0 | 0 | 103 | 25 | 10 | ERR |
| 2 | 2001 | 0 | 0 | 0 | 103 | 25 | 10 | ERR |
| 3 | 2002 | 53 | 9 | 106 | 156 | 34 | 116 | 176 |
| 4 | 2003 | 76 | 19 | 0 | 232 | 53 | 116 | 250 |
| 5 | 2004 | 38 | 9 | 0 | 270 | 62 | 116 | 250 |
| 6 | 2005 | 19 | 5 | 0 | 289 | 67 | 116 | 250 |
| 7 | 2006 | 9 | 2 | 0 | 298 | 69 | 116 | 250 |
| 8 | 2007 | 5 | 1 | 0 | 303 | 71 | 116 | 250 |
| 9 | 2008 | 2 | 1 | 0 | 305 | 71 | 116 | 250 |
| 10 | 2009 | 1 | 0 | 0 | 306 | 71 | 116 | 250 |
| 11 | 2010 | 1 | 0 | 0 | 307 | 72 | 116 | 250 |
| 12 | 2011 | 0 | 0 | 0 | 307 | 72 | 116 | 250 |
| 13 | 2012 | 0 | 0 | 0 | 307 | 72 | 116 | 250 |
| 14 | 2013 | 0 | 0 | 0 | 307 | 72 | 116 | 250 |
| 15 | 2014 | 0 | 0 | 0 | 308 | 72 | 116 | 250 |
| 16 | 2015 | 0 | 0 | 0 | 308 | 72 | 116 | 250 |
| 17 | 2016 | 0 | 0 | 0 | 308 | 72 | 116 | 250 |
| 18 | 2017 | 0 | 0 | 0 | 308 | 72 | 116 | 250 |

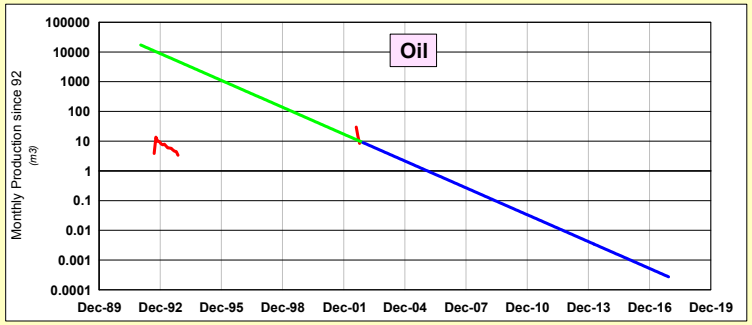
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

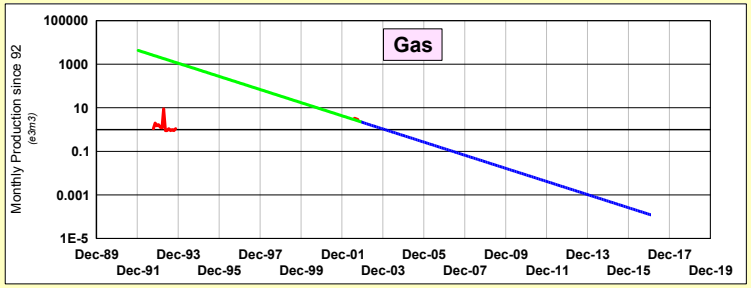
Revised May 27th 2004

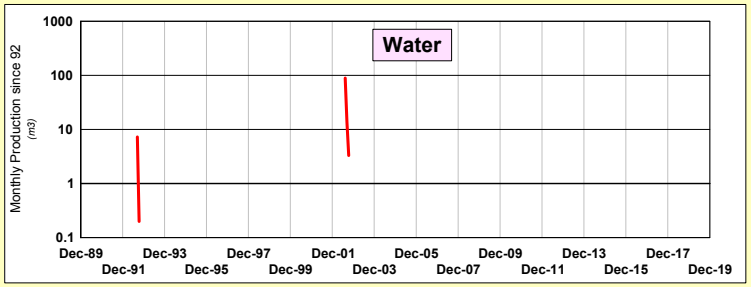
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| | | | | | |
|---|---|---|---|---|---|
| GOR | 250 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 9 | m3/mo. |
| Decline Rate: | 50% | per year | Decline Rate: | 50% | per year |
| Decline Factor: | **0.0561** | per month | Decline Factor: | **0.0561** | per month |
| **GAS** | | | **OIL** | **15** | |



Well No.: **T007231**

Well Name: **Ram/BP 2, Mersea 8 - 16 - VIII**

Status: **Abandoned Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 162 | m3 per m3 | 235 | last year | |
| 2002 Water/Oil ratio: | 7.7064 | m3 per m3 | 1.6865 | last 10 years | |
| 2002 Water/ Gas Ratio: | 32.8499 | m3 per e3m3 | 10.4383 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **772** | m3/yr | **181** | e3m3/yr | **5,952** | m3/yr |
| Cumm to Date: | **37,894** | m3 | **2,581** | e3m3 | **26,941** | m3 |
| Remaining Recoverable: | **5,403** | m3 | **1,270** | e3m3 | **41,637** | m3 |
| Total Recovery: | **43,297** | m3 | **3,851** | e3m3 | **68,578** | m3 |

| | | | |
|---|---|---|---|
| Peak Rate: | 18.6 m3/d | 1.7 e3m3/d | based on annual |
| Peak Rate: | 15.6 m3/d | 4.7 e3m3/d | since '93 based on monthly |
| Second Year Production: | 18.6 m3/d | 0.0 e3m3/d | per day based on annual |
| Current Rate: | 2.1 m3/d | 0.5 e3m3/d | |
| Current decline rate: | 10% | annually | |

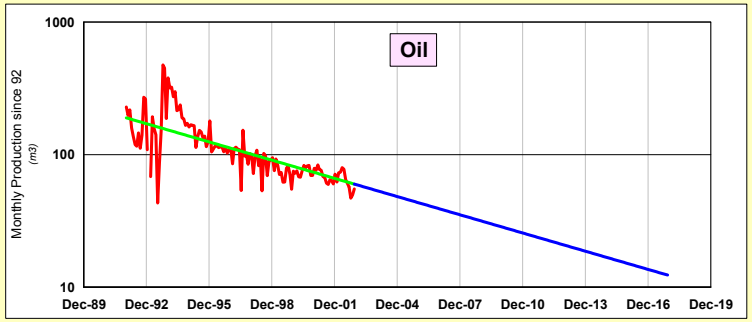
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 5,279 | 0 | 0 | 5,279 | 0 | 0 | 0 |
| 2 | 1989 | 6,792 | 0 | 0 | 12,071 | 0 | 0 | 0 |
| 3 | 1990 | 5,251 | 0 | 0 | 17,322 | 0 | 0 | 0 |
| 4 | 1991 | 4,597 | 0 | 0 | 21,919 | 0 | 0 | 0 |
| 5 | 1992 | 2,107 | 219 | 1,070 | 24,026 | 219 | 1,070 | 104 |
| 6 | 1993 | 2,064 | 391 | 2,160 | 26,090 | 610 | 3,230 | 189 |
| 7 | 1994 | 2,979 | 0 | 466 | 29,070 | 610 | 3,696 | 0 |
| 8 | 1995 | 1,725 | 612 | 318 | 30,795 | 1,222 | 4,014 | 355 |
| 9 | 1996 | 1,400 | 294 | 490 | 32,195 | 1,515 | 4,504 | 210 |
| 10 | 1997 | 1,230 | 197 | 2,265 | 33,425 | 1,712 | 6,768 | 160 |
| 11 | 1998 | 1,056 | 198 | 3,152 | 34,481 | 1,910 | 9,920 | 187 |
| 12 | 1999 | 901 | 202 | 3,035 | 35,383 | 2,112 | 12,955 | 225 |
| 13 | 2000 | 902 | 164 | 3,632 | 36,284 | 2,276 | 16,587 | 182 |
| 14 | 2001 | 837 | 124 | 4,402 | 37,122 | 2,400 | 20,989 | 147 |
| 15 | 2002 | 772 | 181 | 5,952 | 37,894 | 2,581 | 26,941 | 235 |
| 16 | 2003 | 680 | 160 | 5,243 | 38,574 | 2,741 | 32,184 | 235 |
| 17 | 2004 | 612 | 144 | 4,719 | 39,187 | 2,885 | 36,903 | 235 |
| 18 | 2005 | 551 | 130 | 4,247 | 39,738 | 3,014 | 41,150 | 235 |
| 19 | 2006 | 496 | 117 | 3,822 | 40,234 | 3,131 | 44,973 | 235 |
| 20 | 2007 | 446 | 105 | 3,440 | 40,680 | 3,236 | 48,413 | 235 |
| 21 | 2008 | 402 | 94 | 3,096 | 41,082 | 3,330 | 51,509 | 235 |
| 22 | 2009 | 362 | 85 | 2,786 | 41,444 | 3,415 | 54,295 | 235 |
| 23 | 2010 | 325 | 76 | 2,508 | 41,769 | 3,492 | 56,803 | 235 |
| 24 | 2011 | 293 | 69 | 2,257 | 42,062 | 3,560 | 59,060 | 235 |
| 25 | 2012 | 264 | 62 | 2,031 | 42,325 | 3,622 | 61,091 | 235 |
| 26 | 2013 | 237 | 56 | 1,828 | 42,563 | 3,678 | 62,920 | 235 |
| 27 | 2014 | 214 | 50 | 1,645 | 42,776 | 3,728 | 64,565 | 235 |
| 28 | 2015 | 192 | 45 | 1,481 | 42,968 | 3,773 | 66,046 | 235 |
| 29 | 2016 | 173 | 41 | 1,333 | 43,141 | 3,814 | 67,378 | 235 |
| 30 | 2017 | 156 | 37 | 1,199 | 43,297 | 3,851 | 68,578 | 235 |

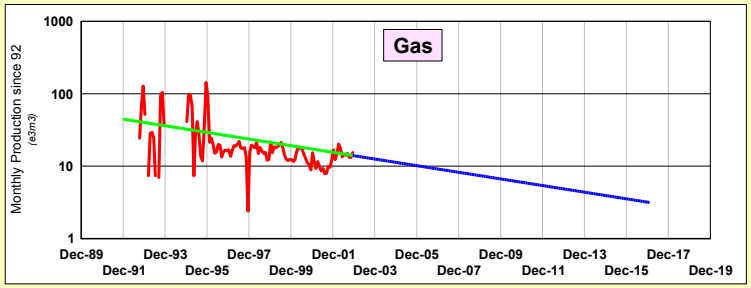
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

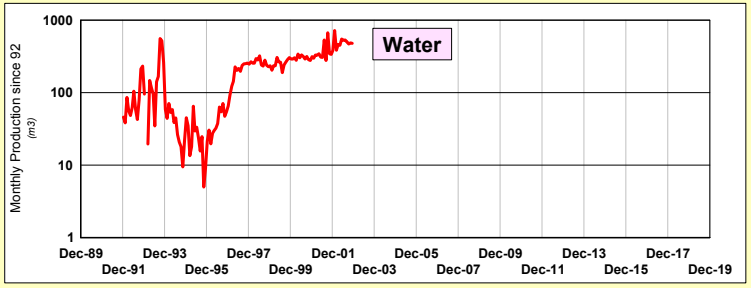
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 235 | m3/m3 | | | |
| Start: | 0 | e3m3 per month | Start: | 60 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | 0.0087 | per month | Decline Factor: | 0.0087 | per month |



Well No.: **T007200 /T008659**

Well Name: **Ram 99, Mersea 7 - 19 - VIII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 84 | m3 per m3 | 119 | last year | |
| 2002 Water/Oil ratio: | 1.0890 | m3 per m3 | 0.6799 | last 10 years | |
| 2002 Water/ Gas Ratio: | 9.1533 | m3 per e3m3 | 8.0675 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **691** | m3/yr | **82** | e3m3/yr | **752** | m3/yr |
| Cumm to Date: | **15,436** | m3 | **792** | e3m3 | **6,393** | m3 |
| Remaining Recoverable: | **2,570** | m3 | **308** | e3m3 | **2,799** | m3 |
| Total Recovery: | **18,006** | m3 | **1,101** | e3m3 | **9,192** | m3 |
| Peak Rate: | 5.1 | m3/d | 0.6 | e3m3/d | based on annual | |
| Peak Rate: | 14.1 | m3/d | 1.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.3 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 1.9 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 1,181 | 0 | 0 | 1,181 | 0 | 0 | 0 |
| 2 | 1989 | 1,200 | 0 | 0 | 2,380 | 0 | 0 | 0 |
| 3 | 1990 | 1,775 | 0 | 0 | 4,155 | 0 | 0 | 0 |
| 4 | 1991 | 1,879 | 0 | 0 | 6,034 | 0 | 0 | 0 |
| 5 | 1992 | 1,489 | 0 | 145 | 7,523 | 0 | 145 | 0 |
| 6 | 1993 | 1,027 | 0 | 132 | 8,550 | 0 | 277 | 0 |
| 7 | 1994 | 678 | 0 | 159 | 9,228 | 0 | 436 | 0 |
| 8 | 1995 | 482 | 0 | 218 | 9,710 | 0 | 655 | 0 |
| 9 | 1996 | 242 | 0 | 153 | 9,952 | 0 | 808 | 0 |
| 10 | 1997 | 112 | 0 | 85 | 10,064 | 0 | 893 | 0 |
| 11 | 1998 | 1,829 | 213 | 1,836 | 11,893 | 213 | 2,729 | 117 |
| 12 | 1999 | 1,267 | 206 | 1,133 | 13,160 | 419 | 3,862 | 162 |
| 13 | 2000 | 818 | 195 | 862 | 13,978 | 614 | 4,723 | 238 |
| 14 | 2001 | 767 | 96 | 917 | 14,745 | 710 | 5,640 | 126 |
| 15 | 2002 | 691 | 82 | 752 | 15,436 | 792 | 6,393 | 119 |
| 16 | 2003 | 533 | 64 | 580 | 15,969 | 856 | 6,973 | 120 |
| 17 | 2004 | 426 | 51 | 464 | 16,395 | 907 | 7,437 | 120 |
| 18 | 2005 | 341 | 41 | 371 | 16,736 | 948 | 7,808 | 120 |
| 19 | 2006 | 273 | 33 | 297 | 17,009 | 981 | 8,106 | 120 |
| 20 | 2007 | 218 | 26 | 238 | 17,227 | 1,007 | 8,343 | 120 |
| 21 | 2008 | 175 | 21 | 190 | 17,402 | 1,028 | 8,533 | 120 |
| 22 | 2009 | 140 | 17 | 152 | 17,541 | 1,045 | 8,685 | 120 |
| 23 | 2010 | 112 | 13 | 122 | 17,653 | 1,058 | 8,807 | 120 |
| 24 | 2011 | 89 | 11 | 97 | 17,742 | 1,069 | 8,904 | 120 |
| 25 | 2012 | 72 | 9 | 78 | 17,814 | 1,078 | 8,982 | 120 |
| 26 | 2013 | 57 | 7 | 62 | 17,871 | 1,085 | 9,045 | 120 |
| 27 | 2014 | 46 | 5 | 50 | 17,917 | 1,090 | 9,094 | 120 |
| 28 | 2015 | 37 | 4 | 40 | 17,954 | 1,094 | 9,134 | 120 |
| 29 | 2016 | 29 | 4 | 32 | 17,983 | 1,098 | 9,166 | 120 |
| 30 | 2017 | 23 | 3 | 26 | 18,006 | 1,101 | 9,192 | 120 |

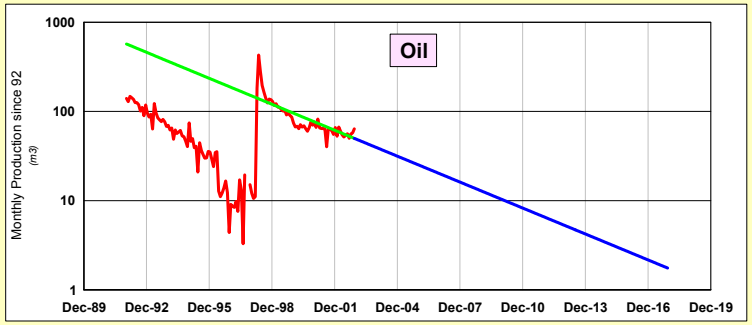
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

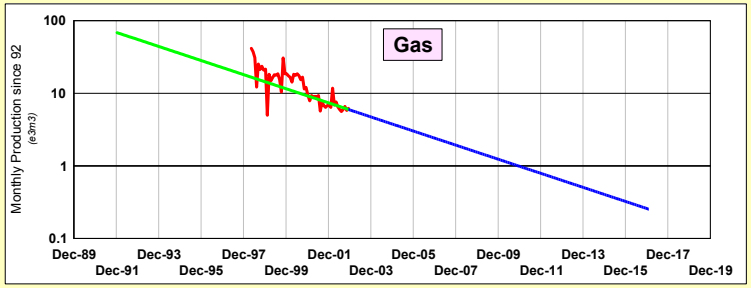
Revised May 27th 2004

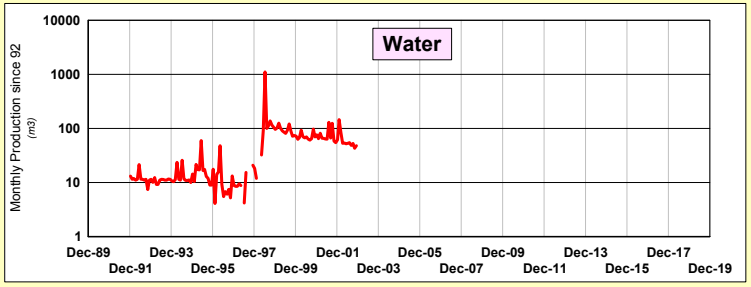
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 120 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 50 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007168**

Well Name: **Cons et al 34150, Mersea 2 - 20 - VII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 193 | m3 per m3 | 212 | last year | |
| 2002 Water/Oil ratio: | 4.1374 | m3 per m3 | 1.4957 | last 10 years | |
| 2002 Water/ Gas Ratio: | 19.4901 | m3 per e3m3 | 7.7474 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **357** | m3/yr | **76** | e3m3/yr | **1,475** | m3/yr |
| Cumm to Date: | **24,520** | m3 | **3,254** | e3m3 | **25,214** | m3 |
| Remaining Recoverable: | **979** | m3 | **206** | e3m3 | **4,052** | m3 |
| Total Recovery: | **25,499** | m3 | **3,460** | e3m3 | **29,266** | m3 |
| Peak Rate: | 12.2 | m3/d | 1.4 | e3m3/d | based on annual | |
| Peak Rate: | 19.0 | m3/d | 2.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.8 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 1.0 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 23% | | annually | | | |

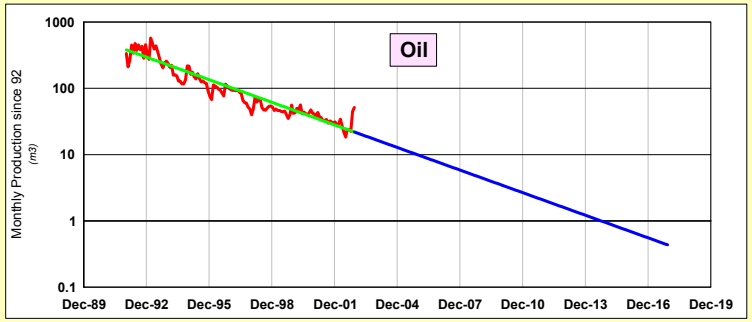
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 2,210 | 0 | 0 | 2,210 | 0 | 0 | 0 |
| 2 | 1989 | 1,021 | 0 | 0 | 3,231 | 0 | 0 | 0 |
| 3 | 1990 | 1,113 | 0 | 0 | 4,344 | 0 | 0 | 0 |
| 4 | 1991 | 3,318 | 0 | 0 | 7,662 | 0 | 0 | 0 |
| 5 | 1992 | 4,464 | 490 | 2,358 | 12,126 | 490 | 2,358 | 110 |
| 6 | 1993 | 4,068 | 503 | 3,307 | 16,194 | 993 | 5,664 | 124 |
| 7 | 1994 | 1,987 | 491 | 2,909 | 18,181 | 1,484 | 8,573 | 247 |
| 8 | 1995 | 1,737 | 404 | 2,357 | 19,918 | 1,888 | 10,930 | 232 |
| 9 | 1996 | 1,148 | 347 | 2,432 | 21,066 | 2,234 | 13,361 | 302 |
| 10 | 1997 | 928 | 385 | 2,338 | 21,994 | 2,619 | 15,700 | 415 |
| 11 | 1998 | 666 | 161 | 2,179 | 22,660 | 2,780 | 17,878 | 241 |
| 12 | 1999 | 547 | 178 | 1,783 | 23,207 | 2,958 | 19,662 | 326 |
| 13 | 2000 | 538 | 120 | 2,156 | 23,745 | 3,078 | 21,817 | 223 |
| 14 | 2001 | 418 | 100 | 1,921 | 24,164 | 3,179 | 23,738 | 240 |
| 15 | 2002 | 357 | 76 | 1,475 | 24,520 | 3,254 | 25,214 | 212 |
| 16 | 2003 | 230 | 48 | 951 | 24,750 | 3,303 | 26,165 | 210 |
| 17 | 2004 | 177 | 37 | 732 | 24,927 | 3,340 | 26,897 | 210 |
| 18 | 2005 | 136 | 29 | 564 | 25,063 | 3,368 | 27,460 | 210 |
| 19 | 2006 | 105 | 22 | 434 | 25,168 | 3,391 | 27,894 | 210 |
| 20 | 2007 | 81 | 17 | 334 | 25,249 | 3,407 | 28,229 | 210 |
| 21 | 2008 | 62 | 13 | 257 | 25,311 | 3,421 | 28,486 | 210 |
| 22 | 2009 | 48 | 10 | 198 | 25,359 | 3,431 | 28,684 | 210 |
| 23 | 2010 | 37 | 8 | 153 | 25,396 | 3,438 | 28,837 | 210 |
| 24 | 2011 | 28 | 6 | 117 | 25,424 | 3,444 | 28,954 | 210 |
| 25 | 2012 | 22 | 5 | 90 | 25,446 | 3,449 | 29,045 | 210 |
| 26 | 2013 | 17 | 4 | 70 | 25,463 | 3,452 | 29,114 | 210 |
| 27 | 2014 | 13 | 3 | 54 | 25,476 | 3,455 | 29,168 | 210 |
| 28 | 2015 | 10 | 2 | 41 | 25,486 | 3,457 | 29,209 | 210 |
| 29 | 2016 | 8 | 2 | 32 | 25,494 | 3,459 | 29,241 | 210 |
| 30 | 2017 | 6 | 1 | 24 | 25,499 | 3,460 | 29,266 | 210 |

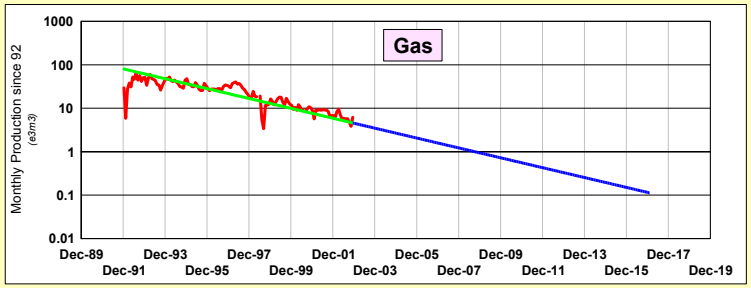
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

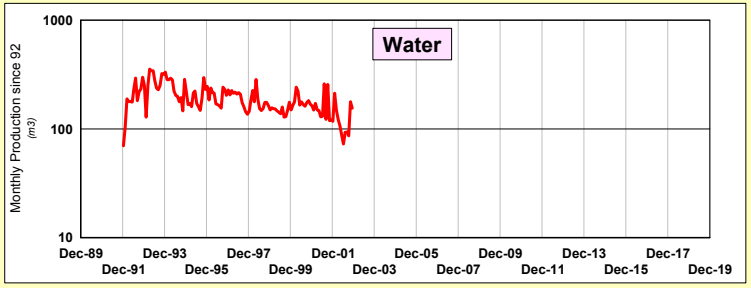
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 210 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 22 | m3/mo. |
| Decline Rate: | 23% | per year | Decline Rate: | 23% | per year |
| Decline Factor: | **0.0215** | per month | Decline Factor: | **0.0215** | per month |



Well No.: **T006935**

Well Name: **Cons et al 34012, Mersea 6 - 23 - VII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 42 | m3 per m3 | ERR | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 3.9621 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 93.8955 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **12,957** | m3 | **285** | e3m3 | **26,756** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **12,957** | m3 | **285** | e3m3 | **26,756** | m3 |
| Peak Rate: | 11.4 | m3/d | 0.5 | e3m3/d | based on annual | |
| Peak Rate: | 15.3 | m3/d | 0.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.2 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

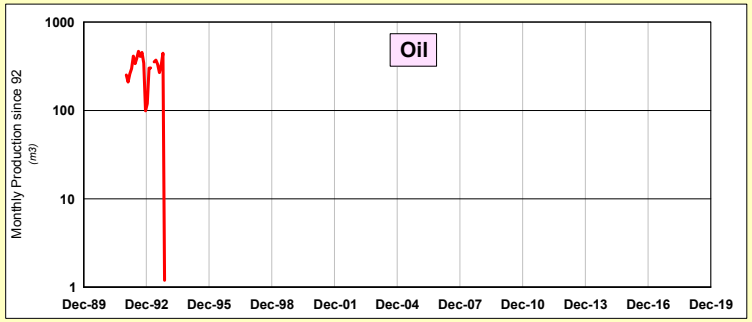
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1986 | 702 | 0 | 0 | 702 | 0 | 0 | 0 |
| 2 | 1987 | 806 | 0 | 0 | 1,508 | 0 | 0 | 0 |
| 3 | 1988 | 383 | 0 | 0 | 1,890 | 0 | 0 | 0 |
| 3 | 1989 | 0 | 0 | 0 | 1,890 | 0 | 0 | ERR |
| 4 | 1990 | 154 | 0 | 0 | 2,044 | 0 | 0 | 0 |
| 5 | 1991 | 4,159 | 0 | 0 | 6,204 | 0 | 0 | 0 |
| 6 | 1992 | 3,930 | 176 | 15,271 | 10,134 | 176 | 15,271 | 45 |
| 7 | 1993 | 2,823 | 109 | 11,485 | 12,957 | 285 | 26,756 | 39 |
| 7 | 1994 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 1995 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 1996 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 1997 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 1998 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 1999 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2000 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2001 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2002 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2003 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2004 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2005 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2006 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2007 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2008 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2009 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2010 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2011 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2012 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2013 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2014 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2015 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2016 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |
| 7 | 2017 | 0 | 0 | 0 | 12,957 | 285 | 26,756 | ERR |

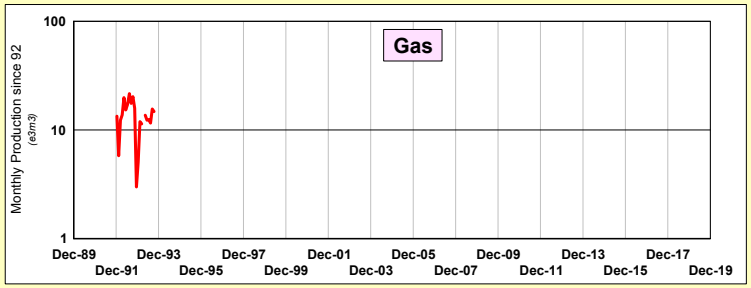
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

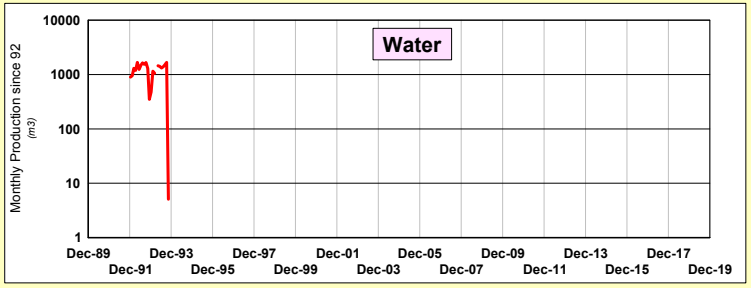
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | **0.0000** | per month | Decline Factor: | **0.0000** | per month |



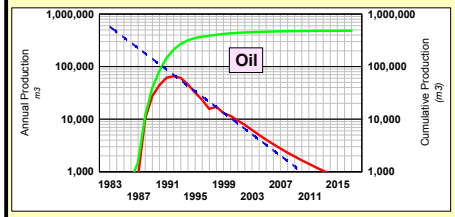



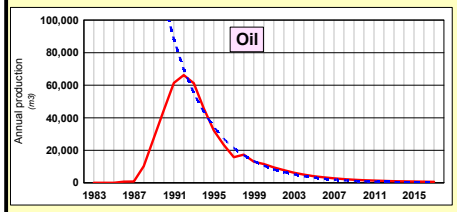



## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Mersea 6-23-VII**
TGI Pool: **Goldsmith-Lakeshore Pool**
TGI Field: **Goldsmith-Lakeshore Field**
No of Wells: **23**

## Monthly Production vs Month
*(1992 to 2002)*

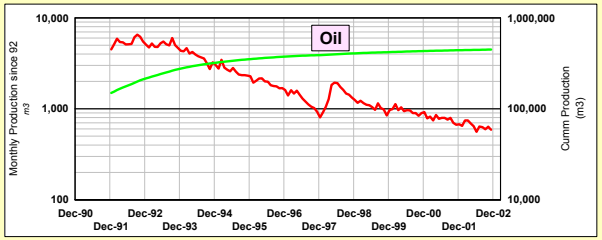


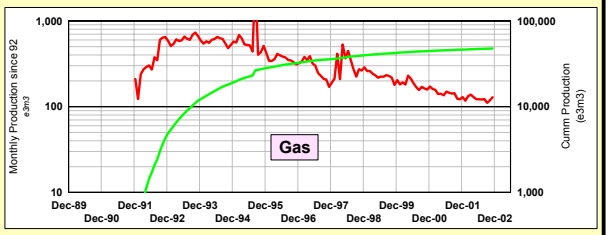



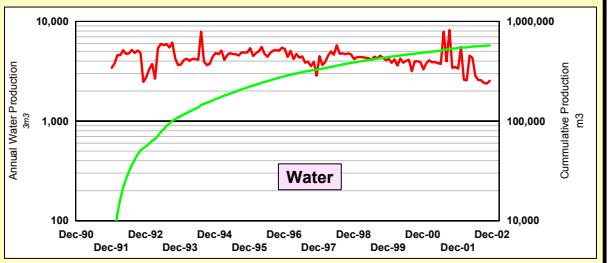

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 7,814 | m3/yr | 1,496 | e3m3/yr | 38,246 | m3/yr |
| Cumm to Date: | 449,087 | m3 | 47,778 | e3m3 | 575,011 | m3 |
| Remaining Recoverable: | 34,096 | m3 | 6,336 | e3m3 | 134,218 | m3 |
| Total Recovery: | 483,183 | m3 | 54,114 | e3m3 | 709,230 | m3 |

Current Rate: 25,942 m3/d 286 e3m3/d
Current decline rate: annually

| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1986 | 702 | 0 | 0 | 702 | 0 | 0 | |
| 1 | 2 | 1987 | 806 | 0 | 0 | 1,508 | 0 | 0 | |
| 6 | 3 | 1988 | 10,261 | 0 | 0 | 11,769 | 0 | 0 | |
| 6 | 4 | 1989 | 27,542 | 0 | 0 | 39,311 | 0 | 0 | |
| 12 | 5 | 1990 | 44,613 | 0 | 0 | 83,924 | 0 | 0 | |
| 13 | 6 | 1991 | 61,448 | 0 | 0 | 145,372 | 0 | 0 | |
| 17 | 7 | 1992 | 66,212 | 4,334 | 53,547 | 211,584 | 4,334 | 53,547 | |
| 19 | 8 | 1993 | 61,252 | 7,398 | 55,134 | 272,836 | 11,733 | 108,681 | 121 |
| 17 | 9 | 1994 | 45,773 | 6,941 | 52,314 | 318,609 | 18,673 | 160,996 | 152 |
| 17 | 10 | 1995 | 32,214 | 9,238 | 56,781 | 350,824 | 27,911 | 217,776 | 287 |
| 17 | 11 | 1996 | 23,341 | 4,381 | 60,123 | 374,165 | 32,292 | 277,899 | 188 |
| 17 | 12 | 1997 | 15,734 | 3,466 | 50,703 | 389,899 | 35,759 | 328,603 | 220 |
| 17 | 13 | 1998 | 17,356 | 3,762 | 55,726 | 407,255 | 39,521 | 384,329 | 217 |
| 17 | 14 | 1999 | 13,046 | 2,812 | 51,709 | 420,301 | 42,333 | 436,038 | 216 |
| 18 | 15 | 2000 | 11,530 | 2,210 | 47,159 | 431,830 | 44,544 | 483,197 | 192 |
| 19 | 16 | 2001 | 9,443 | 1,738 | 53,568 | 441,273 | 46,282 | 536,765 | 184 |
| 20 | 17 | 2002 | 7,814 | 1,496 | 38,246 | 449,087 | 47,778 | 575,011 | 191 |
| | 18 | 2003 | 6,276 | 1,177 | 25,264 | 455,363 | 48,955 | 600,275 | 188 |
| | 19 | 2004 | 5,032 | 934 | 20,314 | 460,395 | 49,889 | 620,589 | 186 |
| | 20 | 2005 | 4,083 | 753 | 16,461 | 464,478 | 50,642 | 637,050 | 184 |
| | 21 | 2006 | 3,348 | 615 | 13,439 | 467,826 | 51,257 | 650,489 | 184 |
| | 22 | 2007 | 2,772 | 509 | 11,049 | 470,599 | 51,766 | 661,538 | 184 |
| | 23 | 2008 | 2,315 | 426 | 9,144 | 472,914 | 52,192 | 670,682 | 184 |
| | 24 | 2009 | 1,949 | 360 | 7,616 | 474,863 | 52,552 | 678,297 | 184 |
| | 25 | 2010 | 1,653 | 306 | 6,381 | 476,516 | 52,858 | 684,678 | 185 |
| | 26 | 2011 | 1,411 | 263 | 5,376 | 477,926 | 53,120 | 690,054 | 186 |
| | 27 | 2012 | 1,211 | 227 | 4,553 | 479,138 | 53,347 | 694,607 | 187 |
| | 28 | 2013 | 1,046 | 197 | 3,876 | 480,183 | 53,544 | 698,483 | 188 |
| | 29 | 2014 | 907 | 172 | 3,315 | 481,091 | 53,715 | 701,798 | 189 |
| | 30 | 2015 | 791 | 150 | 2,848 | 481,882 | 53,866 | 704,646 | 190 |
| | 31 | 2016 | 693 | 132 | 2,457 | 482,574 | 53,998 | 707,102 | 191 |
| | 32 | 2017 | 609 | 117 | 2,127 | 483,183 | 54,114 | 709,230 | 191 |
| | | To date: | 449,087 | 47,778 | 575,011 | | | | |




**21%** Pool Decline

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

Revised May 27th 2004

# Mersea 6-23-VII

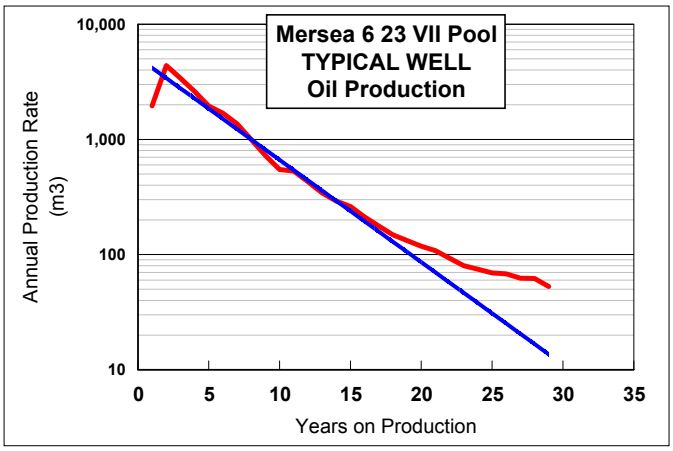
# Average Well

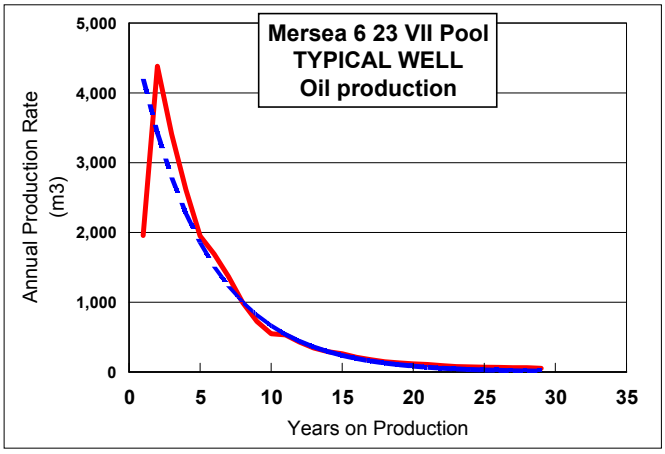
GOR: 0.1573
WOR: 1.8933

| Prod Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|
| 1 | 4,200 | 661 | 7,952 | 4,200 | 661 | 7,952 | 157 |
| 2 | 3,423 | 538 | 6,481 | 7,623 | 1,199 | 14,432 | 157 |
| 3 | 2,790 | 439 | 5,282 | 10,413 | 1,638 | 19,714 | 157 |
| 4 | 2,274 | 358 | 4,305 | 12,686 | 1,996 | 24,019 | 157 |
| 5 | 1,853 | 292 | 3,508 | 14,539 | 2,287 | 27,527 | 157 |
| 6 | 1,510 | 238 | 2,859 | 16,050 | 2,525 | 30,386 | 157 |
| 7 | 1,231 | 194 | 2,330 | 17,280 | 2,718 | 32,716 | 157 |
| 8 | 1,003 | 158 | 1,899 | 18,284 | 2,876 | 34,616 | 157 |
| 9 | 818 | 129 | 1,548 | 19,101 | 3,005 | 36,163 | 157 |
| 10 | 666 | 105 | 1,261 | 19,767 | 3,110 | 37,425 | 157 |
| 11 | 543 | 85 | 1,028 | 20,310 | 3,195 | 38,453 | 157 |
| 12 | 443 | 70 | 838 | 20,753 | 3,265 | 39,291 | 157 |
| 13 | 361 | 57 | 683 | 21,114 | 3,321 | 39,974 | 157 |
| 14 | 294 | 46 | 557 | 21,408 | 3,368 | 40,530 | 157 |
| 15 | 240 | 38 | 454 | 21,647 | 3,405 | 40,984 | 157 |
| 16 | 195 | 31 | 370 | 21,843 | 3,436 | 41,354 | 157 |
| 17 | 159 | 25 | 301 | 22,002 | 3,461 | 41,655 | 157 |
| 18 | 130 | 20 | 246 | 22,131 | 3,482 | 41,900 | 157 |
| 19 | 106 | 17 | 200 | 22,237 | 3,498 | 42,101 | 157 |
| 20 | 86 | 14 | 163 | 22,323 | 3,512 | 42,264 | 157 |
| 21 | 70 | 11 | 133 | 22,393 | 3,523 | 42,397 | 157 |
| 22 | 57 | 9 | 108 | 22,451 | 3,532 | 42,505 | 157 |
| 23 | 47 | 7 | 88 | 22,497 | 3,539 | 42,593 | 157 |
| 24 | 38 | 6 | 72 | 22,535 | 3,545 | 42,665 | 157 |
| 25 | 31 | 5 | 59 | 22,566 | 3,550 | 42,724 | 157 |
| 26 | 25 | 4 | 48 | 22,591 | 3,554 | 42,772 | 157 |
| 27 | 21 | 3 | 39 | 22,612 | 3,557 | 42,811 | 157 |
| 28 | 17 | 3 | 32 | 22,629 | 3,560 | 42,842 | 157 |
| 29 | 14 | 2 | 26 | 22,642 | 3,562 | 42,868 | 157 |
| | 22,642 | 3,562 | 42,868 | | | | |

| | | |
|---|---|---|
| Start: | 4200 | m3 per yearh |
| Decline Rate | 19% | per year |
| Decline Factc | 0.0169 | per month |

22,966
22,642




Revised May 27th 2004

Well No.: **T009137**

Well Name: **Talisman (Horiz.#1) , Mersea 7 - 14 - IX**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 120 | m3 per m3 | 121 | last year | |
| 2002 Water/Oil ratio: | 0.0301 | m3 per m3 | 0.0456 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.2480 | m3 per e3m3 | 0.3785 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **805** | m3/yr | **98** | e3m3/yr | **24** | m3/yr |
| Cumm to Date: | **3,461** | m3 | **417** | e3m3 | **158** | m3 |
| Remaining Recoverable: | **2,440** | m3 | **293** | e3m3 | **73** | m3 |
| Total Recovery: | **5,901** | m3 | **709** | e3m3 | **231** | m3 |
| Peak Rate: | 3.8 | m3/d | 0.5 | e3m3/d | based on annual | |
| Peak Rate: | 6.8 | m3/d | 1.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.5 | m3/d | 0.5 | e3m3/d | per day based on annual | |
| Current Rate: | 2.2 | m3/d | 0.3 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

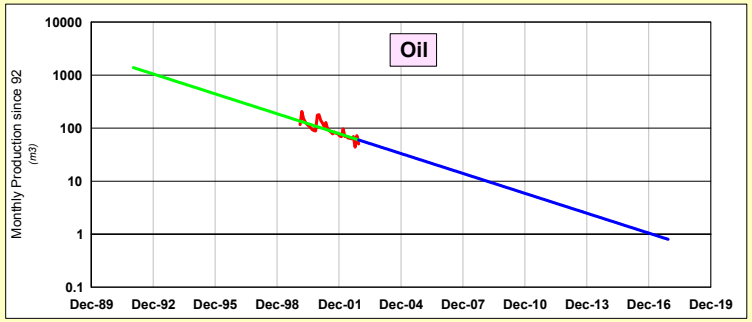
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2000 | 1,383 | 125 | 60 | 1,383 | 125 | 60 | 91 |
| 2 | 2001 | 1,273 | 194 | 73 | 2,656 | 319 | 134 | 152 |
| 3 | 2002 | 805 | 98 | 24 | 3,461 | 417 | 158 | 121 |
| 4 | 2003 | 618 | 74 | 19 | 4,079 | 491 | 176 | 120 |
| 5 | 2004 | 464 | 56 | 14 | 4,543 | 546 | 190 | 120 |
| 6 | 2005 | 348 | 42 | 10 | 4,890 | 588 | 201 | 120 |
| 7 | 2006 | 261 | 31 | 8 | 5,151 | 619 | 209 | 120 |
| 8 | 2007 | 196 | 23 | 6 | 5,347 | 643 | 214 | 120 |
| 9 | 2008 | 147 | 18 | 4 | 5,493 | 661 | 219 | 120 |
| 10 | 2009 | 110 | 13 | 3 | 5,603 | 674 | 222 | 120 |
| 11 | 2010 | 83 | 10 | 2 | 5,686 | 684 | 225 | 120 |
| 12 | 2011 | 62 | 7 | 2 | 5,748 | 691 | 226 | 120 |
| 13 | 2012 | 46 | 6 | 1 | 5,794 | 697 | 228 | 120 |
| 14 | 2013 | 35 | 4 | 1 | 5,829 | 701 | 229 | 120 |
| 15 | 2014 | 26 | 3 | 1 | 5,855 | 704 | 230 | 120 |
| 16 | 2015 | 20 | 2 | 1 | 5,875 | 706 | 230 | 120 |
| 17 | 2016 | 15 | 2 | 0 | 5,890 | 708 | 231 | 120 |
| 18 | 2017 | 11 | 1 | 0 | 5,901 | 709 | 231 | 120 |

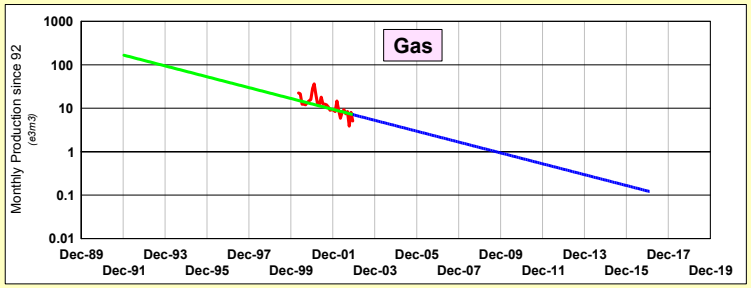
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

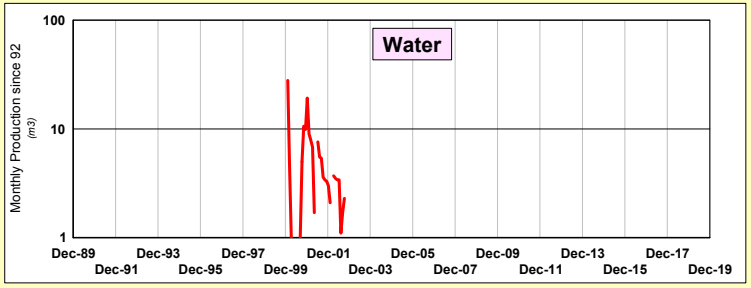
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 120 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 60 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T008826**

Well Name: **CanEnerco/CNR #19, Mersea 3 - 16 - VIII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 345 | m3 per m3 | 373 | last year | |
| 2002 Water/Oil ratio: | 0.0486 | m3 per m3 | 0.1435 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.1303 | m3 per e3m3 | 0.4157 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **138** | m3/yr | **51** | e3m3/yr | **7** | m3/yr |
| Cumm to Date: | **696** | m3 | **240** | e3m3 | **100** | m3 |
| Remaining Recoverable: | **991** | m3 | **371** | e3m3 | **48** | m3 |
| Total Recovery: | **1,686** | m3 | **612** | e3m3 | **148** | m3 |
| Peak Rate: | 0.6 | m3/d | 0.3 | e3m3/d | based on annual | |
| Peak Rate: | 3.5 | m3/d | 0.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.6 | m3/d | 0.3 | e3m3/d | per day based on annual | |
| Current Rate: | 0.4 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

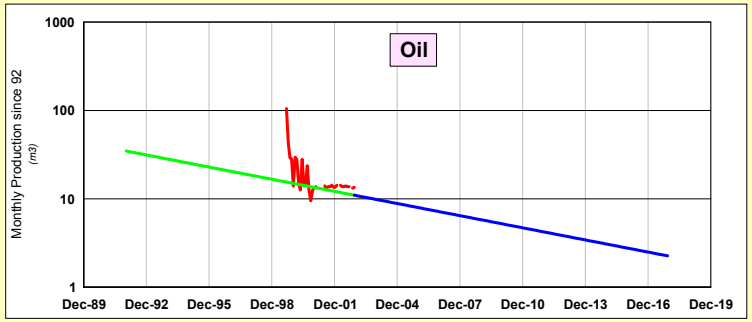
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1999 | 206 | 41 | 29 | 206 | 41 | 29 | 200 |
| 2 | 2000 | 214 | 98 | 32 | 420 | 139 | 60 | 457 |
| 3 | 2001 | 138 | 50 | 33 | 558 | 189 | 93 | 362 |
| 4 | 2002 | 138 | 51 | 7 | 696 | 240 | 100 | 373 |
| 5 | 2003 | 125 | 47 | 6 | 820 | 287 | 106 | 375 |
| 6 | 2004 | 112 | 42 | 5 | 933 | 329 | 111 | 375 |
| 7 | 2005 | 101 | 38 | 5 | 1,034 | 367 | 116 | 375 |
| 8 | 2006 | 91 | 34 | 4 | 1,124 | 401 | 121 | 375 |
| 9 | 2007 | 82 | 31 | 4 | 1,206 | 432 | 125 | 375 |
| 10 | 2008 | 74 | 28 | 4 | 1,280 | 459 | 128 | 375 |
| 11 | 2009 | 66 | 25 | 3 | 1,346 | 484 | 131 | 375 |
| 12 | 2010 | 60 | 22 | 3 | 1,406 | 506 | 134 | 375 |
| 13 | 2011 | 54 | 20 | 3 | 1,460 | 527 | 137 | 375 |
| 14 | 2012 | 48 | 18 | 2 | 1,508 | 545 | 139 | 375 |
| 15 | 2013 | 43 | 16 | 2 | 1,551 | 561 | 141 | 375 |
| 16 | 2014 | 39 | 15 | 2 | 1,591 | 576 | 143 | 375 |
| 17 | 2015 | 35 | 13 | 2 | 1,626 | 589 | 145 | 375 |
| 18 | 2016 | 32 | 12 | 2 | 1,658 | 601 | 147 | 375 |
| 19 | 2017 | 29 | 11 | 1 | 1,686 | 612 | 148 | 375 |

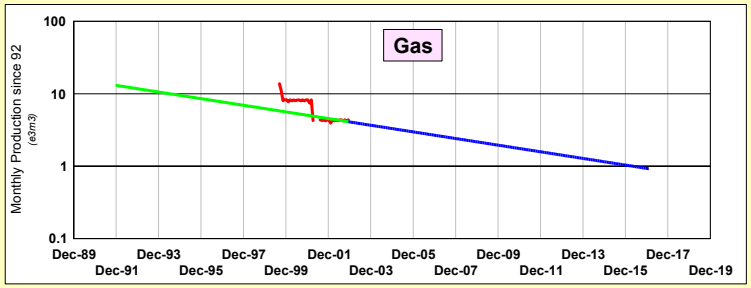
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

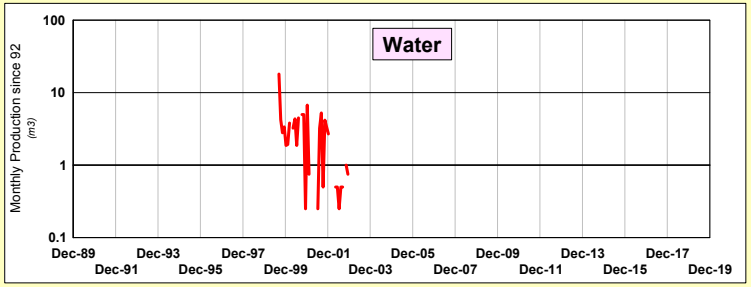
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 375 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 11 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T008660**

Well Name: **Talisman (Horiz.#1), Mersea 1 - 218 - NTR**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 236 | m3 per m3 | 309 | last year | |
| 2002 Water/Oil ratio: | 1.6768 | m3 per m3 | 0.7006 | last 10 years | |
| 2002 Water/ Gas Ratio: | 5.4196 | m3 per e3m3 | 2.9695 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **786** | m3/yr | **243** | e3m3/yr | **1,318** | m3/yr |
| Cumm to Date: | **9,949** | m3 | **2,347** | e3m3 | **6,971** | m3 |
| Remaining Recoverable: | **1,502** | m3 | **451** | e3m3 | **2,519** | m3 |
| Total Recovery: | **11,452** | m3 | **2,798** | e3m3 | **9,490** | m3 |
| Peak Rate: | 10.8 | m3/d | 2.1 | e3m3/d | based on annual | |
| Peak Rate: | 24.0 | m3/d | 6.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 7.5 | m3/d | 1.7 | e3m3/d | per day based on annual | |
| Current Rate: | 2.2 | m3/d | 0.7 | e3m3/d | | |
| Current decline rate: | 35% | | annually | | | |

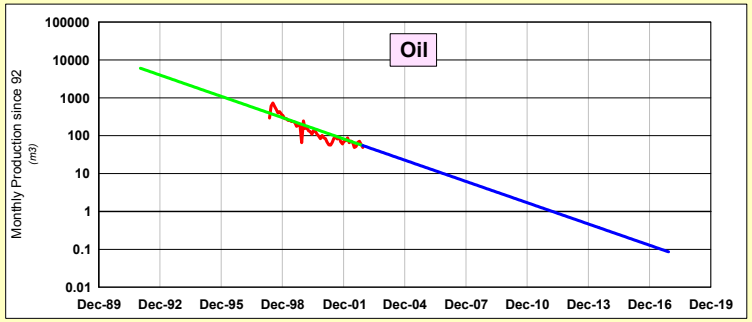
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1998 | 3,928 | 765 | 1,881 | 3,928 | 765 | 1,881 | 195 |
| 2 | 1999 | 2,726 | 637 | 1,340 | 6,654 | 1,402 | 3,221 | 234 |
| 3 | 2000 | 1,606 | 415 | 1,338 | 8,260 | 1,817 | 4,559 | 258 |
| 4 | 2001 | 904 | 287 | 1,095 | 9,163 | 2,104 | 5,653 | 318 |
| 5 | 2002 | 786 | 243 | 1,318 | 9,949 | 2,347 | 6,971 | 309 |
| 6 | 2003 | 527 | 158 | 883 | 10,476 | 2,505 | 7,854 | 300 |
| 7 | 2004 | 342 | 103 | 574 | 10,818 | 2,608 | 8,428 | 300 |
| 8 | 2005 | 223 | 67 | 373 | 11,041 | 2,675 | 8,801 | 300 |
| 9 | 2006 | 145 | 43 | 243 | 11,185 | 2,718 | 9,043 | 300 |
| 10 | 2007 | 94 | 28 | 158 | 11,279 | 2,746 | 9,201 | 300 |
| 11 | 2008 | 61 | 18 | 102 | 11,340 | 2,765 | 9,304 | 300 |
| 12 | 2009 | 40 | 12 | 67 | 11,380 | 2,777 | 9,370 | 300 |
| 13 | 2010 | 26 | 8 | 43 | 11,406 | 2,784 | 9,413 | 300 |
| 14 | 2011 | 17 | 5 | 28 | 11,423 | 2,789 | 9,442 | 300 |
| 15 | 2012 | 11 | 3 | 18 | 11,434 | 2,793 | 9,460 | 300 |
| 16 | 2013 | 7 | 2 | 12 | 11,441 | 2,795 | 9,472 | 300 |
| 17 | 2014 | 5 | 1 | 8 | 11,445 | 2,796 | 9,480 | 300 |
| 18 | 2015 | 3 | 1 | 5 | 11,448 | 2,797 | 9,485 | 300 |
| 19 | 2016 | 2 | 1 | 3 | 11,450 | 2,798 | 9,488 | 300 |
| 20 | 2017 | 1 | 0 | 2 | 11,452 | 2,798 | 9,490 | 300 |

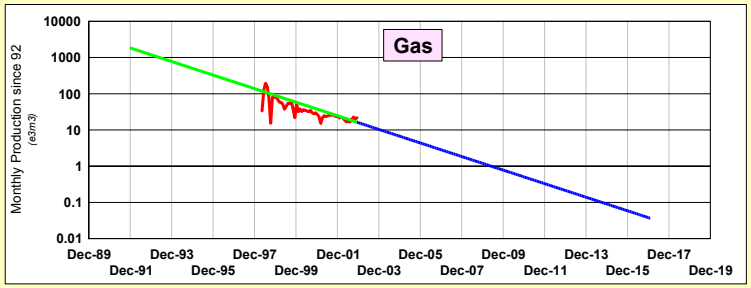
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

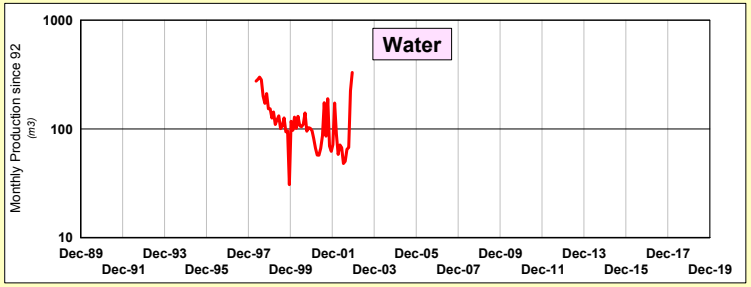
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 300 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 55 | m3/mo. |
| Decline Rate: | 35% | per year | Decline Rate: | 35% | per year |
| Decline Factor: | **0.0353** | per month | Decline Factor: | **0.0353** | per month |



Well No.: **T008080**

Well Name: **Telesis et al 34723, Mersea 7 - 18 - VIII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 153 | m3 per m3 | 109 | last year | |
| 2002 Water/Oil ratio: | 0.5977 | m3 per m3 | 0.2260 | last 10 years | |
| 2002 Water/ Gas Ratio: | 5.4751 | m3 per e3m3 | 1.4757 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **166** | m3/yr | **18** | e3m3/yr | **99** | m3/yr |
| Cumm to Date: | **2,633** | m3 | **403** | e3m3 | **595** | m3 |
| Remaining Recoverable: | **1,879** | m3 | **207** | e3m3 | **1,123** | m3 |
| Total Recovery: | **4,513** | m3 | **610** | e3m3 | **1,718** | m3 |
| Peak Rate: | 2.0 | m3/d | 0.3 | e3m3/d | based on annual | |
| Peak Rate: | 3.2 | m3/d | 0.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.0 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.5 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 5% | | annually | | | |

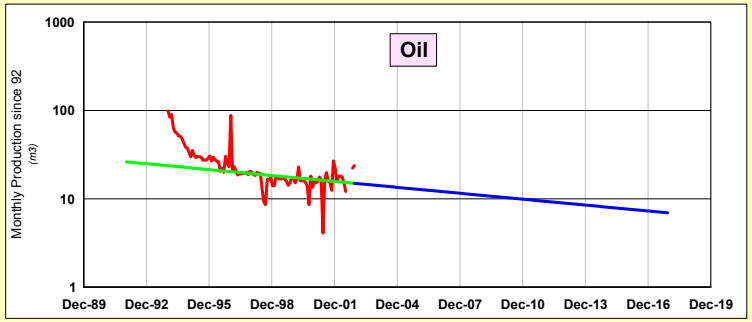
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1994 | 719 | 104 | 36 | 719 | 104 | 36 | 144 |
| 2 | 1995 | 360 | 54 | 44 | 1,078 | 158 | 80 | 151 |
| 3 | 1996 | 309 | 39 | 150 | 1,387 | 197 | 231 | 126 |
| 4 | 1997 | 308 | 35 | 63 | 1,695 | 232 | 293 | 115 |
| 5 | 1998 | 198 | 35 | 48 | 1,893 | 267 | 341 | 176 |
| 6 | 1999 | 194 | 54 | 49 | 2,087 | 321 | 390 | 276 |
| 7 | 2000 | 190 | 37 | 47 | 2,276 | 358 | 437 | 195 |
| 8 | 2001 | 191 | 28 | 59 | 2,467 | 385 | 496 | 145 |
| 9 | 2002 | 166 | 18 | 99 | 2,633 | 403 | 595 | 109 |
| 10 | 2003 | 175 | 19 | 105 | 2,808 | 422 | 700 | 110 |
| 11 | 2004 | 166 | 18 | 99 | 2,975 | 441 | 799 | 110 |
| 12 | 2005 | 158 | 17 | 94 | 3,133 | 458 | 894 | 110 |
| 13 | 2006 | 150 | 17 | 90 | 3,283 | 475 | 983 | 110 |
| 14 | 2007 | 143 | 16 | 85 | 3,425 | 490 | 1,068 | 110 |
| 15 | 2008 | 135 | 15 | 81 | 3,561 | 505 | 1,149 | 110 |
| 16 | 2009 | 129 | 14 | 77 | 3,690 | 519 | 1,226 | 110 |
| 17 | 2010 | 122 | 13 | 73 | 3,812 | 533 | 1,299 | 110 |
| 18 | 2011 | 116 | 13 | 69 | 3,928 | 546 | 1,369 | 110 |
| 19 | 2012 | 110 | 12 | 66 | 4,038 | 558 | 1,435 | 110 |
| 20 | 2013 | 105 | 12 | 63 | 4,143 | 569 | 1,498 | 110 |
| 21 | 2014 | 100 | 11 | 60 | 4,243 | 580 | 1,557 | 110 |
| 22 | 2015 | 95 | 10 | 57 | 4,337 | 591 | 1,614 | 110 |
| 23 | 2016 | 90 | 10 | 54 | 4,427 | 601 | 1,667 | 110 |
| 24 | 2017 | 85 | 9 | 51 | 4,513 | 610 | 1,718 | 110 |

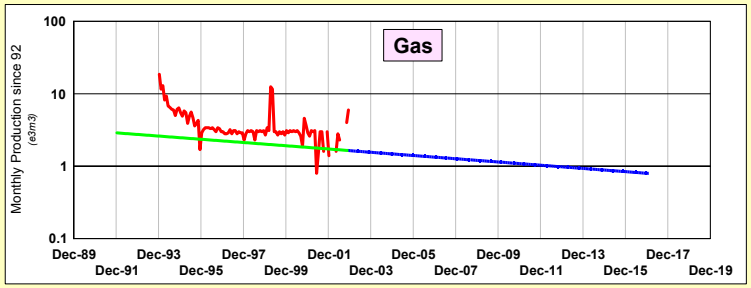
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

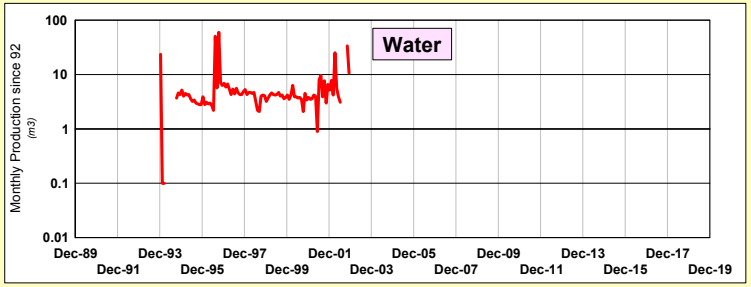
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 110 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 15 | m3/mo. |
| Decline Rate: | 5% | per year | Decline Rate: | 5% | per year |
| Decline Factor: | **0.0043** | per month | Decline Factor: | **0.0043** | per month |



Well No.: **T008049 /T008578**

Well Name: **Telesis et al 34721, Mersea 1 - 219 - NTR**

Status: **Active**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 93 | m3 per m3 | 86 | last year | |
| 2002 Water/Oil ratio: | 0.8548 | m3 per m3 | 0.3891 | last 10 years | |
| 2002 Water/ Gas Ratio: | 9.9144 | m3 per e3m3 | 4.1899 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **515** | m3/yr | **44** | e3m3/yr | **440** | m3/yr |
| Cumm to Date: | **15,097** | m3 | **1,402** | e3m3 | **5,874** | m3 |
| Remaining Recoverable: | **3,347** | m3 | **301** | e3m3 | **2,861** | m3 |
| Total Recovery: | **18,444** | m3 | **1,703** | e3m3 | **8,735** | m3 |
| Peak Rate: | 11.5 | m3/d | 1.0 | e3m3/d | based on annual | |
| Peak Rate: | 16.1 | m3/d | 1.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 11.5 | m3/d | 1.0 | e3m3/d | per day based on annual | |
| Current Rate: | 1.4 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 1,300 | 106 | 211 | 1,300 | 106 | 211 | 82 |
| 2 | 1994 | 4,210 | 362 | 571 | 5,510 | 468 | 781 | 86 |
| 3 | 1995 | 3,267 | 383 | 1,094 | 8,778 | 851 | 1,876 | 117 |
| 4 | 1996 | 1,919 | 176 | 993 | 10,696 | 1,027 | 2,868 | 92 |
| 5 | 1997 | 1,015 | 62 | 469 | 11,712 | 1,089 | 3,338 | 61 |
| 6 | 1998 | 1,123 | 153 | 669 | 12,835 | 1,242 | 4,007 | 136 |
| 7 | 1999 | 697 | 58 | 525 | 13,532 | 1,300 | 4,531 | 83 |
| 8 | 2000 | 565 | 24 | 419 | 14,098 | 1,324 | 4,951 | 42 |
| 9 | 2001 | 484 | 34 | 484 | 14,582 | 1,358 | 5,434 | 69 |
| 10 | 2002 | 515 | 44 | 440 | 15,097 | 1,402 | 5,874 | 86 |
| 11 | 2003 | 550 | 50 | 470 | 15,647 | 1,452 | 6,344 | 90 |
| 12 | 2004 | 468 | 42 | 400 | 16,114 | 1,494 | 6,744 | 90 |
| 13 | 2005 | 397 | 36 | 340 | 16,512 | 1,529 | 7,084 | 90 |
| 14 | 2006 | 338 | 30 | 289 | 16,850 | 1,560 | 7,372 | 90 |
| 15 | 2007 | 287 | 26 | 245 | 17,137 | 1,586 | 7,618 | 90 |
| 16 | 2008 | 244 | 22 | 209 | 17,381 | 1,608 | 7,827 | 90 |
| 17 | 2009 | 207 | 19 | 177 | 17,588 | 1,626 | 8,004 | 90 |
| 18 | 2010 | 176 | 16 | 151 | 17,765 | 1,642 | 8,155 | 90 |
| 19 | 2011 | 150 | 13 | 128 | 17,915 | 1,656 | 8,283 | 90 |
| 20 | 2012 | 127 | 11 | 109 | 18,042 | 1,667 | 8,392 | 90 |
| 21 | 2013 | 108 | 10 | 93 | 18,150 | 1,677 | 8,484 | 90 |
| 22 | 2014 | 92 | 8 | 79 | 18,242 | 1,685 | 8,563 | 90 |
| 23 | 2015 | 78 | 7 | 67 | 18,320 | 1,692 | 8,630 | 90 |
| 24 | 2016 | 67 | 6 | 57 | 18,387 | 1,698 | 8,687 | 90 |
| 25 | 2017 | 57 | 5 | 48 | 18,444 | 1,703 | 8,735 | 90 |

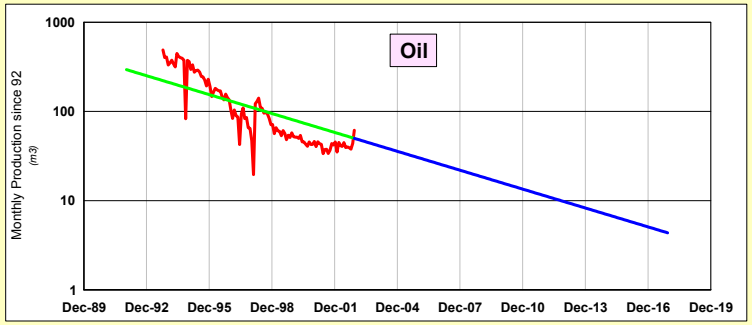
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

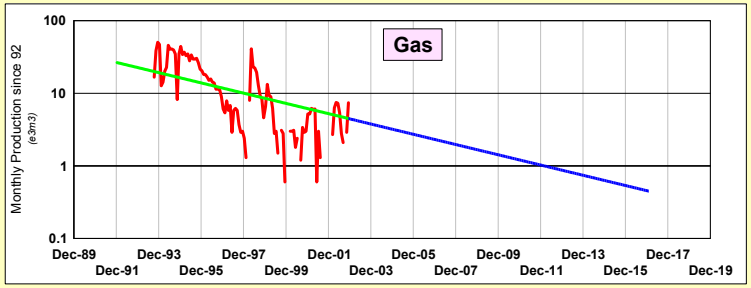
Revised May 27th 2004

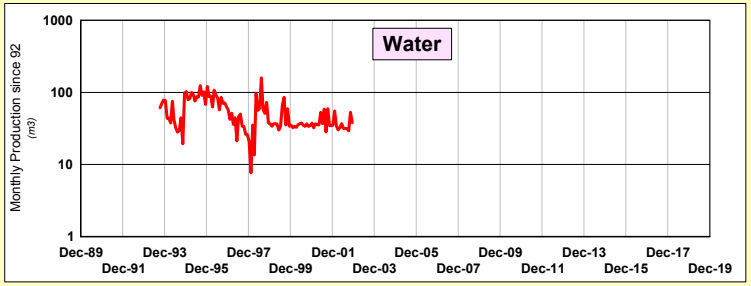
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 90 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 50 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | 0.0135 | per month | Decline Factor: | 0.0135 | per month |



Well No.: **T007915**

Well Name: **Telesis et al 34166, Mersea 7 - 14 - IX**

Status: **Abandoned Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0000 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **14** | m3 | **0** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **14** | m3 | **0** | e3m3 | **0** | m3 |
| Peak Rate: | 0.0 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 0.3 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

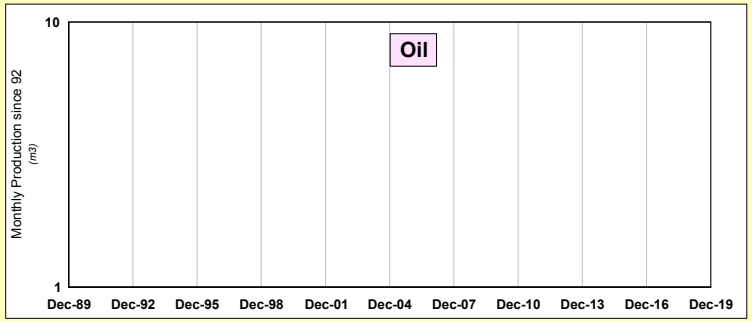
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 14 | 0 | 0 | 14 | 0 | 0 | 0 |
| 1 | 1994 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1995 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1996 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1997 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1998 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1999 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2000 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2001 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2002 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2003 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2004 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2005 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2006 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2007 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2008 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2009 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2010 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2011 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2012 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2013 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2014 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2015 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2016 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2017 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |

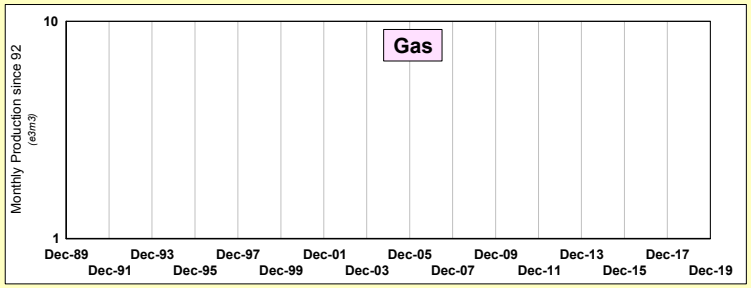
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

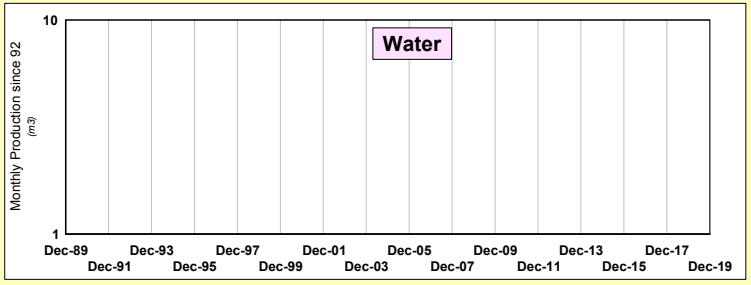
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | 0.0000 | per month | Decline Factor: | 0.0000 | per month |



Well No.: **T007881 /T008625**

Well Name: **Telesis et al 34168, Mersea 4 - 15 - VIII**

Status: **Active**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 81 | m3 per m3 | 169 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0441 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.5432 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **215** | m3/yr | **36** | e3m3/yr | **24** | m3/yr |
| Cumm to Date: | **9,257** | m3 | **752** | e3m3 | **408** | m3 |
| Remaining Recoverable: | **624** | m3 | **106** | e3m3 | **0** | m3 |
| Total Recovery: | **9,880** | m3 | **858** | e3m3 | **408** | m3 |
| Peak Rate: | 7.0 | m3/d | 0.5 | e3m3/d | based on annual | |
| Peak Rate: | 19.0 | m3/d | 1.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 7.0 | m3/d | 0.3 | e3m3/d | per day based on annual | |
| Current Rate: | 0.6 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

| Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1992 | 1,494 | 172 | 87 | 1,494 | 172 | 87 | 115 |
| 2 | 1993 | 2,548 | 128 | 73 | 4,042 | 300 | 160 | 50 |
| 3 | 1994 | 1,660 | 102 | 1 | 5,701 | 402 | 161 | 62 |
| 4 | 1995 | 1,219 | 89 | 0 | 6,921 | 491 | 161 | 73 |
| 5 | 1996 | 1,159 | 99 | 101 | 8,079 | 590 | 262 | 85 |
| 6 | 1997 | 649 | 80 | 33 | 8,728 | 669 | 295 | 123 |
| 7 | 1998 | 152 | 10 | 8 | 8,880 | 679 | 304 | 65 |
| 7 | 1999 | 0 | 0 | 0 | 8,880 | 679 | 304 | ERR |
| 7 | 2000 | 0 | 0 | 0 | 8,880 | 679 | 304 | ERR |
| 8 | 2001 | 162 | 36 | 80 | 9,042 | 715 | 384 | 223 |
| 9 | 2002 | 215 | 36 | 24 | 9,257 | 752 | 408 | 169 |
| 10 | 2003 | 155 | 26 | 0 | 9,412 | 778 | 408 | 170 |
| 11 | 2004 | 117 | 20 | 0 | 9,529 | 798 | 408 | 170 |
| 12 | 2005 | 88 | 15 | 0 | 9,617 | 813 | 408 | 170 |
| 13 | 2006 | 67 | 11 | 0 | 9,684 | 824 | 408 | 170 |
| 14 | 2007 | 50 | 9 | 0 | 9,735 | 833 | 408 | 170 |
| 15 | 2008 | 38 | 6 | 0 | 9,773 | 839 | 408 | 170 |
| 16 | 2009 | 29 | 5 | 0 | 9,801 | 844 | 408 | 170 |
| 17 | 2010 | 22 | 4 | 0 | 9,823 | 848 | 408 | 170 |
| 18 | 2011 | 16 | 3 | 0 | 9,839 | 851 | 408 | 170 |
| 19 | 2012 | 12 | 2 | 0 | 9,852 | 853 | 408 | 170 |
| 20 | 2013 | 9 | 2 | 0 | 9,861 | 854 | 408 | 170 |
| 21 | 2014 | 7 | 1 | 0 | 9,868 | 855 | 408 | 170 |
| 22 | 2015 | 5 | 1 | 0 | 9,873 | 856 | 408 | 170 |
| 23 | 2016 | 4 | 1 | 0 | 9,877 | 857 | 408 | 170 |
| 24 | 2017 | 3 | 1 | 0 | 9,880 | 858 | 408 | 170 |

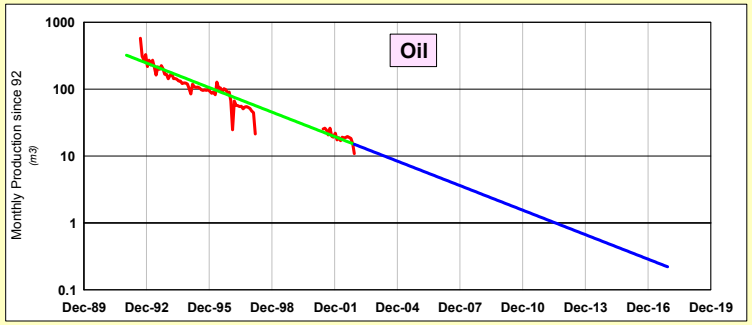
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

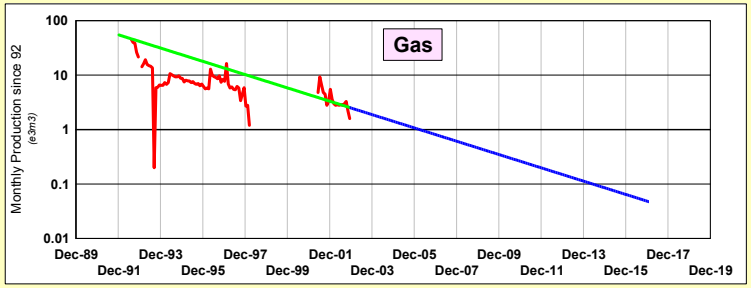
Revised May 27th 2004

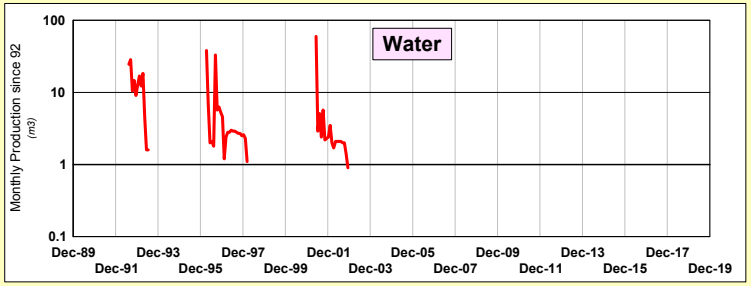
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 170 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 15 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0231** | per month | Decline Factor: | **0.0231** | per month |



Well No.: **T007880**

Well Name: **Telesis et al 34169, Mersea 1 - 14 - VIII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 131 | m3 per m3 | 177 | last year | |
| 2002 Water/Oil ratio: | 7.6926 | m3 per m3 | 1.8231 | last 10 years | |
| 2002 Water/ Gas Ratio: | 43.3932 | m3 per e3m3 | 13.9682 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **182** | m3/yr | **32** | e3m3/yr | **1,402** | m3/yr |
| Cumm to Date: | **11,572** | m3 | **1,510** | e3m3 | **21,097** | m3 |
| Remaining Recoverable: | **328** | m3 | **59** | e3m3 | **2,522** | m3 |
| Total Recovery: | **11,900** | m3 | **1,569** | e3m3 | **23,619** | m3 |
| Peak Rate: | 8.2 | m3/d | 0.8 | e3m3/d | based on annual | |
| Peak Rate: | 30.0 | m3/d | 2.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 8.2 | m3/d | 0.8 | e3m3/d | per day based on annual | |
| Current Rate: | 0.5 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 35% | | annually | | | |

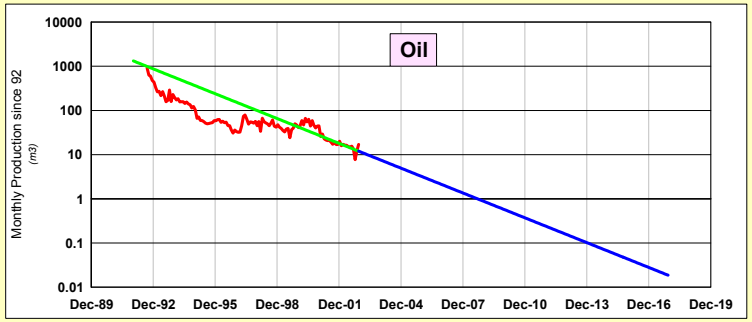
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1992 | 2,624 | 234 | 89 | 2,624 | 234 | 89 | 89 |
| 2 | 1993 | 3,007 | 278 | 337 | 5,631 | 512 | 427 | 93 |
| 3 | 1994 | 1,842 | 151 | 216 | 7,473 | 663 | 642 | 82 |
| 4 | 1995 | 732 | 118 | 3,806 | 8,205 | 781 | 4,448 | 162 |
| 5 | 1996 | 596 | 190 | 3,680 | 8,801 | 971 | 8,128 | 319 |
| 6 | 1997 | 626 | 161 | 2,883 | 9,428 | 1,132 | 11,011 | 257 |
| 7 | 1998 | 604 | 121 | 2,876 | 10,032 | 1,253 | 13,887 | 200 |
| 8 | 1999 | 472 | 99 | 2,021 | 10,504 | 1,352 | 15,908 | 210 |
| 9 | 2000 | 611 | 78 | 1,853 | 11,115 | 1,430 | 17,761 | 128 |
| 10 | 2001 | 275 | 48 | 1,934 | 11,390 | 1,478 | 19,696 | 174 |
| 11 | 2002 | 182 | 32 | 1,402 | 11,572 | 1,510 | 21,097 | 177 |
| 12 | 2003 | 115 | 21 | 884 | 11,687 | 1,531 | 21,981 | 180 |
| 13 | 2004 | 75 | 13 | 575 | 11,761 | 1,544 | 22,556 | 180 |
| 14 | 2005 | 49 | 9 | 373 | 11,810 | 1,553 | 22,929 | 180 |
| 15 | 2006 | 32 | 6 | 243 | 11,842 | 1,559 | 23,172 | 180 |
| 16 | 2007 | 21 | 4 | 158 | 11,862 | 1,563 | 23,330 | 180 |
| 17 | 2008 | 13 | 2 | 103 | 11,875 | 1,565 | 23,432 | 180 |
| 18 | 2009 | 9 | 2 | 67 | 11,884 | 1,567 | 23,499 | 180 |
| 19 | 2010 | 6 | 1 | 43 | 11,890 | 1,568 | 23,542 | 180 |
| 20 | 2011 | 4 | 1 | 28 | 11,893 | 1,568 | 23,570 | 180 |
| 21 | 2012 | 2 | 0 | 18 | 11,896 | 1,569 | 23,589 | 180 |
| 22 | 2013 | 2 | 0 | 12 | 11,897 | 1,569 | 23,601 | 180 |
| 23 | 2014 | 1 | 0 | 8 | 11,898 | 1,569 | 23,608 | 180 |
| 24 | 2015 | 1 | 0 | 5 | 11,899 | 1,569 | 23,613 | 180 |
| 25 | 2016 | 0 | 0 | 3 | 11,899 | 1,569 | 23,617 | 180 |
| 26 | 2017 | 0 | 0 | 2 | 11,900 | 1,569 | 23,619 | 180 |

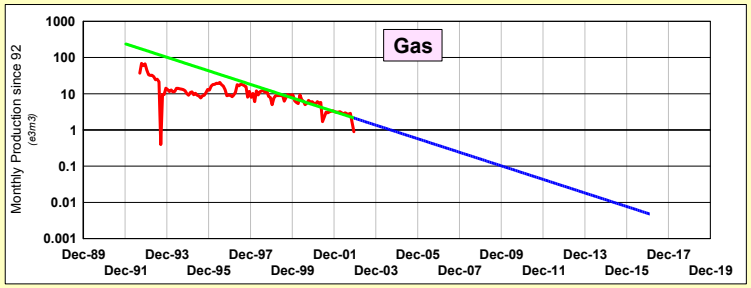
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

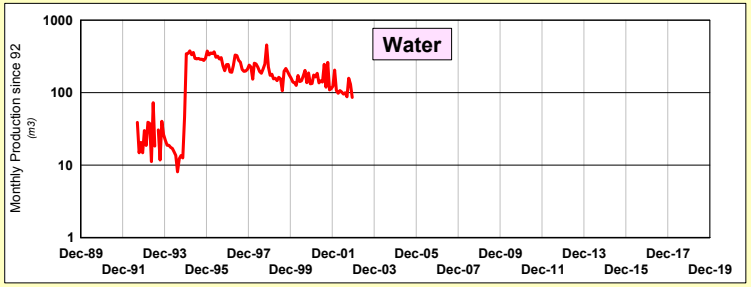
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 180 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 12 | m3/mo. |
| Decline Rate: | 35% | per year | Decline Rate: | 35% | per year |
| Decline Factor: | **0.0353** | per month | Decline Factor: | **0.0353** | per month |



Well No.: **T007837**

Well Name: **Telesis et al 34167, Mersea 1 - 18 - VII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 280 | m3 per m3 | 336 | last year | |
| 2002 Water/Oil ratio: | 1.9846 | m3 per m3 | 0.3324 | last 10 years | |
| 2002 Water/ Gas Ratio: | 5.9024 | m3 per e3m3 | 1.1878 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **494** | m3/yr | **166** | e3m3/yr | **980** | m3/yr |
| Cumm to Date: | **36,180** | m3 | **10,126** | e3m3 | **12,027** | m3 |
| Remaining Recoverable: | **2,343** | m3 | **820** | e3m3 | **4,649** | m3 |
| Total Recovery: | **38,522** | m3 | **10,946** | e3m3 | **16,676** | m3 |
| Peak Rate: | 24.2 | m3/d | 12.2 | e3m3/d | based on annual | |
| Peak Rate: | 28.9 | m3/d | 102.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 23.5 | m3/d | 3.1 | e3m3/d | per day based on annual | |
| Current Rate: | 1.4 | m3/d | 0.5 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

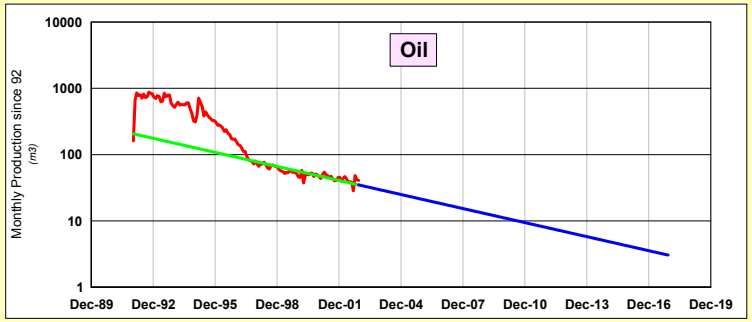
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1992 | 8,824 | 671 | 1,206 | 8,824 | 671 | 1,206 | 76 |
| 2 | 1993 | 8,568 | 1,120 | 1,046 | 17,392 | 1,791 | 2,252 | 131 |
| 3 | 1994 | 6,424 | 1,369 | 762 | 23,816 | 3,160 | 3,013 | 213 |
| 4 | 1995 | 5,169 | 4,468 | 1,144 | 28,985 | 7,628 | 4,158 | 864 |
| 5 | 1996 | 2,781 | 747 | 1,197 | 31,766 | 8,375 | 5,354 | 269 |
| 6 | 1997 | 1,278 | 548 | 1,454 | 33,043 | 8,923 | 6,808 | 429 |
| 7 | 1998 | 828 | 353 | 1,228 | 33,871 | 9,276 | 8,036 | 426 |
| 8 | 1999 | 669 | 292 | 1,125 | 34,540 | 9,568 | 9,161 | 437 |
| 9 | 2000 | 590 | 208 | 929 | 35,130 | 9,777 | 10,090 | 353 |
| 10 | 2001 | 556 | 183 | 957 | 35,686 | 9,960 | 11,047 | 329 |
| 11 | 2002 | 494 | 166 | 980 | 36,180 | 10,126 | 12,027 | 336 |
| 12 | 2003 | 385 | 135 | 764 | 36,565 | 10,260 | 12,791 | 350 |
| 13 | 2004 | 327 | 115 | 650 | 36,892 | 10,375 | 13,440 | 350 |
| 14 | 2005 | 278 | 97 | 552 | 37,170 | 10,472 | 13,993 | 350 |
| 15 | 2006 | 236 | 83 | 469 | 37,407 | 10,555 | 14,462 | 350 |
| 16 | 2007 | 201 | 70 | 399 | 37,608 | 10,625 | 14,861 | 350 |
| 17 | 2008 | 171 | 60 | 339 | 37,778 | 10,685 | 15,200 | 350 |
| 18 | 2009 | 145 | 51 | 288 | 37,924 | 10,736 | 15,488 | 350 |
| 19 | 2010 | 123 | 43 | 245 | 38,047 | 10,779 | 15,733 | 350 |
| 20 | 2011 | 105 | 37 | 208 | 38,152 | 10,816 | 15,941 | 350 |
| 21 | 2012 | 89 | 31 | 177 | 38,241 | 10,847 | 16,118 | 350 |
| 22 | 2013 | 76 | 27 | 150 | 38,317 | 10,874 | 16,269 | 350 |
| 23 | 2014 | 64 | 23 | 128 | 38,381 | 10,896 | 16,396 | 350 |
| 24 | 2015 | 55 | 19 | 109 | 38,436 | 10,915 | 16,505 | 350 |
| 25 | 2016 | 47 | 16 | 92 | 38,483 | 10,932 | 16,597 | 350 |
| 26 | 2017 | 40 | 14 | 79 | 38,522 | 10,946 | 16,676 | 350 |

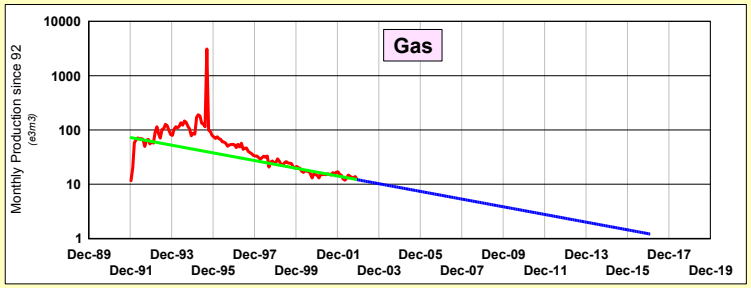
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

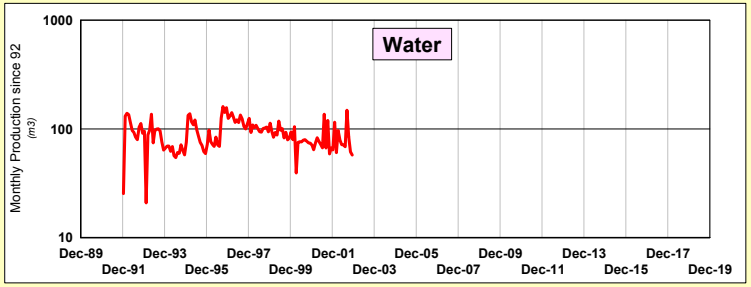
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 350 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 35 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T007821**

Well Name: **Ram/BP No. 15, Mersea 2 - 19 - VII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 68 | m3 per m3 | 143 | last year | |
| 2002 Water/Oil ratio: | 5.7773 | m3 per m3 | 0.7721 | last 10 years | |
| 2002 Water/ Gas Ratio: | 40.3402 | m3 per e3m3 | 11.3072 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **439** | m3/yr | **63** | e3m3/yr | **2,537** | m3/yr |
| Cumm to Date: | **23,617** | m3 | **1,531** | e3m3 | **17,308** | m3 |
| Remaining Recoverable: | **813** | m3 | **116** | e3m3 | **4,699** | m3 |
| Total Recovery: | **24,430** | m3 | **1,647** | e3m3 | **22,006** | m3 |
| Peak Rate: | 19.5 | m3/d | 1.4 | e3m3/d | based on annual | |
| Peak Rate: | 23.3 | m3/d | 1.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 19.5 | m3/d | 0.3 | e3m3/d | per day based on annual | |
| Current Rate: | 1.2 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

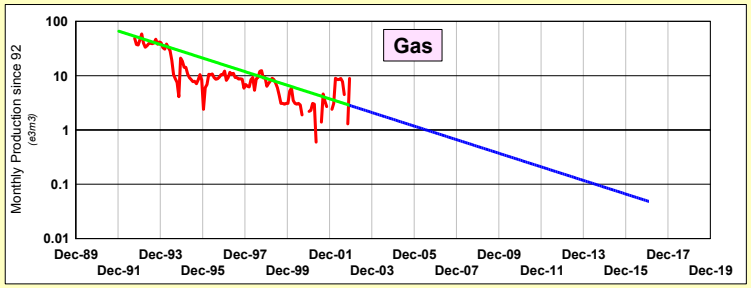
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1991 | 1,199 | 0 | 0 | 1,199 | 0 | 0 | 0 |
| 2 | 1992 | 7,140 | 123 | 24 | 8,339 | 123 | 24 | 17 |
| 3 | 1993 | 5,457 | 498 | 1,207 | 13,795 | 621 | 1,231 | 91 |
| 4 | 1994 | 2,689 | 276 | 1,353 | 16,485 | 897 | 2,584 | 103 |
| 5 | 1995 | 1,518 | 126 | 1,327 | 18,003 | 1,023 | 3,912 | 83 |
| 6 | 1996 | 1,287 | 104 | 1,419 | 19,290 | 1,127 | 5,331 | 81 |
| 7 | 1997 | 1,253 | 113 | 1,518 | 20,543 | 1,240 | 6,849 | 90 |
| 8 | 1998 | 892 | 104 | 1,660 | 21,435 | 1,344 | 8,509 | 116 |
| 9 | 1999 | 700 | 69 | 1,675 | 22,135 | 1,413 | 10,184 | 99 |
| 10 | 2000 | 652 | 32 | 2,031 | 22,787 | 1,445 | 12,215 | 49 |
| 11 | 2001 | 391 | 23 | 2,556 | 23,177 | 1,468 | 14,771 | 60 |
| 12 | 2002 | 439 | 63 | 2,537 | 23,617 | 1,531 | 17,308 | 143 |
| 13 | 2003 | 206 | 29 | 1,191 | 23,823 | 1,560 | 18,498 | 143 |
| 14 | 2004 | 155 | 22 | 893 | 23,977 | 1,582 | 19,391 | 143 |
| 15 | 2005 | 116 | 17 | 670 | 24,093 | 1,599 | 20,061 | 143 |
| 16 | 2006 | 87 | 12 | 502 | 24,180 | 1,611 | 20,563 | 143 |
| 17 | 2007 | 65 | 9 | 377 | 24,245 | 1,621 | 20,940 | 143 |
| 18 | 2008 | 49 | 7 | 283 | 24,294 | 1,628 | 21,223 | 143 |
| 19 | 2009 | 37 | 5 | 212 | 24,331 | 1,633 | 21,434 | 143 |
| 20 | 2010 | 28 | 4 | 159 | 24,358 | 1,637 | 21,593 | 143 |
| 21 | 2011 | 21 | 3 | 119 | 24,379 | 1,640 | 21,713 | 143 |
| 22 | 2012 | 15 | 2 | 89 | 24,394 | 1,642 | 21,802 | 143 |
| 23 | 2013 | 12 | 2 | 67 | 24,406 | 1,644 | 21,869 | 143 |
| 24 | 2014 | 9 | 1 | 50 | 24,415 | 1,645 | 21,919 | 143 |
| 25 | 2015 | 7 | 1 | 38 | 24,421 | 1,646 | 21,957 | 143 |
| 26 | 2016 | 5 | 1 | 28 | 24,426 | 1,646 | 21,985 | 143 |
| 27 | 2017 | 4 | 1 | 21 | 24,430 | 1,647 | 22,006 | 143 |

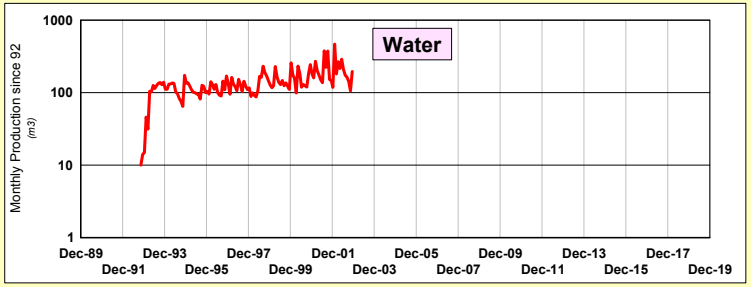
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 143 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 20 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | 0.0237 | per month | Decline Factor: | 0.0237 | per month |



Well No.: **T007669**

Well Name: **Telesis et al 34158, Mersea 5 - 22 - VII**

Status: **Active Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 145 | m3 per m3 | 42 | last year | |
| 2002 Water/Oil ratio: | 14.1617 | m3 per m3 | 3.9219 | last 10 years | |
| 2002 Water/ Gas Ratio: | 340.3538 | m3 per e3m3 | 26.9622 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **863** | m3/yr | **36** | e3m3/yr | **12,219** | m3/yr |
| Cumm to Date: | **35,408** | m3 | **4,458** | e3m3 | **120,186** | m3 |
| Remaining Recoverable: | **3,598** | m3 | **151** | e3m3 | **50,958** | m3 |
| Total Recovery: | **39,006** | m3 | **4,609** | e3m3 | **171,143** | m3 |
| Peak Rate: | 15.5 | m3/d | 3.3 | e3m3/d | based on annual | |
| Peak Rate: | 20.8 | m3/d | 4.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 12.6 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 2.4 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1990 | 151 | 0 | 0 | 151 | 0 | 0 | 0 |
| 2 | 1991 | 4,613 | 0 | 0 | 4,763 | 0 | 0 | 0 |
| 3 | 1992 | 5,116 | 251 | 4,951 | 9,879 | 251 | 4,951 | 49 |
| 4 | 1993 | 5,663 | 361 | 5,828 | 15,542 | 611 | 10,779 | 64 |
| 5 | 1994 | 5,535 | 678 | 8,317 | 21,077 | 1,289 | 19,096 | 122 |
| 6 | 1995 | 4,036 | 577 | 11,757 | 25,113 | 1,866 | 30,854 | 143 |
| 7 | 1996 | 3,444 | 1,196 | 15,670 | 28,557 | 3,062 | 46,524 | 347 |
| 8 | 1997 | 1,865 | 770 | 11,890 | 30,422 | 3,832 | 58,414 | 413 |
| 9 | 1998 | 1,337 | 227 | 13,474 | 31,758 | 4,058 | 71,887 | 170 |
| 10 | 1999 | 1,133 | 195 | 12,846 | 32,891 | 4,253 | 84,733 | 172 |
| 11 | 2000 | 791 | 108 | 10,902 | 33,683 | 4,361 | 95,636 | 137 |
| 12 | 2001 | 862 | 60 | 12,331 | 34,545 | 4,422 | 107,967 | 70 |
| 13 | 2002 | 863 | 36 | 12,219 | 35,408 | 4,458 | 120,186 | 42 |
| 14 | 2003 | 746 | 31 | 10,563 | 36,154 | 4,489 | 130,749 | 42 |
| 15 | 2004 | 597 | 25 | 8,451 | 36,750 | 4,514 | 139,200 | 42 |
| 16 | 2005 | 477 | 20 | 6,760 | 37,228 | 4,534 | 145,960 | 42 |
| 17 | 2006 | 382 | 16 | 5,408 | 37,610 | 4,550 | 151,368 | 42 |
| 18 | 2007 | 306 | 13 | 4,327 | 37,915 | 4,563 | 155,695 | 42 |
| 19 | 2008 | 244 | 10 | 3,461 | 38,160 | 4,573 | 159,156 | 42 |
| 20 | 2009 | 196 | 8 | 2,769 | 38,355 | 4,581 | 161,925 | 42 |
| 21 | 2010 | 156 | 7 | 2,215 | 38,512 | 4,588 | 164,141 | 42 |
| 22 | 2011 | 125 | 5 | 1,772 | 38,637 | 4,593 | 165,913 | 42 |
| 23 | 2012 | 100 | 4 | 1,418 | 38,737 | 4,597 | 167,331 | 42 |
| 24 | 2013 | 80 | 3 | 1,134 | 38,817 | 4,601 | 168,465 | 42 |
| 25 | 2014 | 64 | 3 | 907 | 38,881 | 4,603 | 169,372 | 42 |
| 26 | 2015 | 51 | 2 | 726 | 38,932 | 4,606 | 170,098 | 42 |
| 27 | 2016 | 41 | 2 | 581 | 38,973 | 4,607 | 170,679 | 42 |
| 28 | 2017 | 33 | 1 | 465 | 39,006 | 4,609 | 171,143 | 42 |

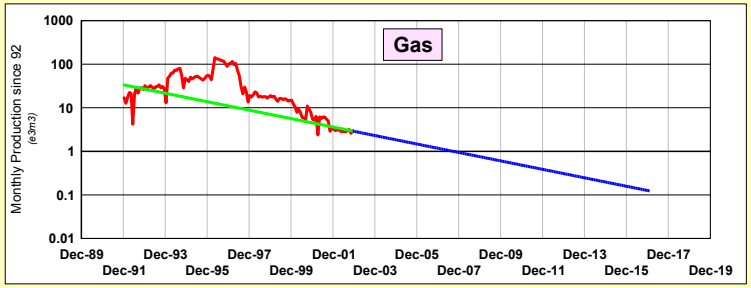
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

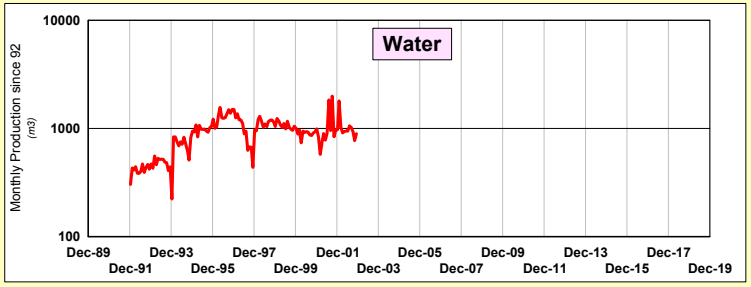
Revised May 27th 2004

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis---> Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 42 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 70 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007661**

Well Name: **Telesis et al 34154, Mersea 3 - 22 - VII**

Status: **Abandoned Well**

MNR Pool: **Mersea 6-23-VII**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 86 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 2.1398 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 24.8817 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **12,873** | m3 | **497** | e3m3 | **12,374** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **12,873** | m3 | **497** | e3m3 | **12,374** | m3 |
| Peak Rate: | 16.1 | m3/d | 0.4 | e3m3/d | based on annual | |
| Peak Rate: | 7.2 | m3/d | 0.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 16.1 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

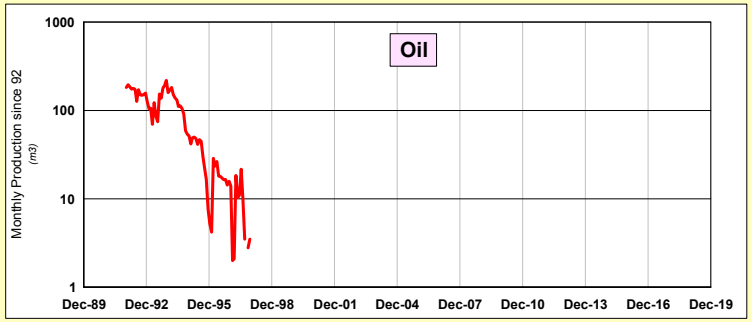
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1990 | 1,199 | 0 | 0 | 1,199 | 0 | 0 | 0 |
| 2 | 1991 | 5,892 | 0 | 0 | 7,090 | 0 | 0 | 0 |
| 3 | 1992 | 1,995 | 152 | 776 | 9,085 | 152 | 776 | 76 |
| 4 | 1993 | 1,570 | 148 | 3,228 | 10,655 | 300 | 4,004 | 94 |
| 5 | 1994 | 1,465 | 126 | 2,648 | 12,120 | 426 | 6,652 | 86 |
| 6 | 1995 | 450 | 51 | 2,344 | 12,570 | 477 | 8,995 | 114 |
| 7 | 1996 | 205 | 14 | 2,439 | 12,774 | 491 | 11,434 | 68 |
| 8 | 1997 | 99 | 6 | 940 | 12,873 | 497 | 12,374 | 62 |
| 8 | 1998 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 1999 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2000 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2001 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2002 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2003 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2004 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2005 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2006 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2007 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2008 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2009 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2010 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2011 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2012 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2013 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2014 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2015 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2016 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |
| 8 | 2017 | 0 | 0 | 0 | 12,873 | 497 | 12,374 | ERR |

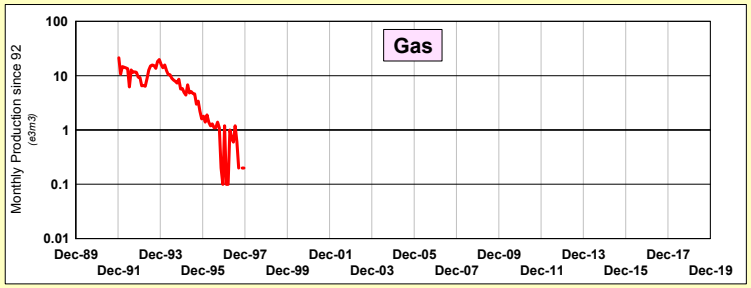
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

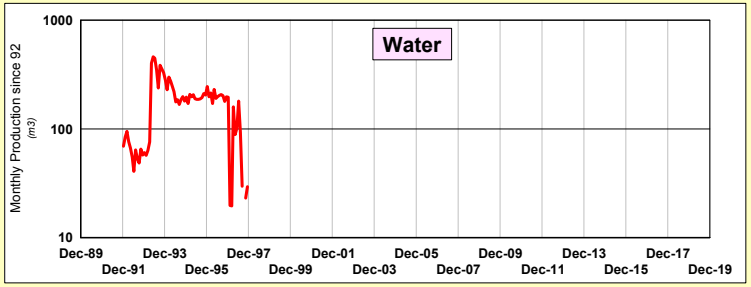
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 90 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T007598**

Well Name: **Judo, Romney 4 - 8 - II**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **wc**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0073 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **154** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **12,219** | m3 | **0** | e3m3 | **41** | m3 |
| Remaining Recoverable: | **565** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **12,784** | m3 | **0** | e3m3 | **41** | m3 |
| Peak Rate: | 9.5 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 3.6 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 5.3 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.4 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 3,482 | 0 | 0 | 3,482 | 0 | 0 | 0 |
| 2 | 1990 | 1,934 | 0 | 0 | 5,416 | 0 | 0 | 0 |
| 3 | 1991 | 1,247 | 0 | 0 | 6,663 | 0 | 0 | 0 |
| 4 | 1992 | 951 | 0 | 0 | 7,614 | 0 | 0 | 0 |
| 5 | 1993 | 841 | 0 | 0 | 8,455 | 0 | 0 | 0 |
| 6 | 1994 | 749 | 0 | 0 | 9,204 | 0 | 0 | 0 |
| 7 | 1995 | 874 | 0 | 0 | 10,078 | 0 | 0 | 0 |
| 8 | 1996 | 799 | 0 | 0 | 10,877 | 0 | 0 | 0 |
| 9 | 1997 | 476 | 0 | 0 | 11,353 | 0 | 0 | 0 |
| 10 | 1998 | 184 | 0 | 0 | 11,537 | 0 | 0 | 0 |
| 11 | 1999 | 188 | 0 | 0 | 11,725 | 0 | 0 | 0 |
| 12 | 2000 | 180 | 0 | 22 | 11,905 | 0 | 22 | 0 |
| 13 | 2001 | 160 | 0 | 19 | 12,065 | 0 | 41 | 0 |
| 14 | 2002 | 154 | 0 | 0 | 12,219 | 0 | 41 | 0 |
| 15 | 2003 | 117 | 0 | 0 | 12,336 | 0 | 41 | 0 |
| 16 | 2004 | 94 | 0 | 0 | 12,430 | 0 | 41 | 0 |
| 17 | 2005 | 75 | 0 | 0 | 12,505 | 0 | 41 | 0 |
| 18 | 2006 | 60 | 0 | 0 | 12,565 | 0 | 41 | 0 |
| 19 | 2007 | 48 | 0 | 0 | 12,613 | 0 | 41 | 0 |
| 20 | 2008 | 38 | 0 | 0 | 12,651 | 0 | 41 | 0 |
| 21 | 2009 | 31 | 0 | 0 | 12,682 | 0 | 41 | 0 |
| 22 | 2010 | 25 | 0 | 0 | 12,706 | 0 | 41 | 0 |
| 23 | 2011 | 20 | 0 | 0 | 12,726 | 0 | 41 | 0 |
| 24 | 2012 | 16 | 0 | 0 | 12,742 | 0 | 41 | 0 |
| 25 | 2013 | 13 | 0 | 0 | 12,754 | 0 | 41 | 0 |
| 26 | 2014 | 10 | 0 | 0 | 12,764 | 0 | 41 | 0 |
| 27 | 2015 | 8 | 0 | 0 | 12,772 | 0 | 41 | 0 |
| 28 | 2016 | 6 | 0 | 0 | 12,779 | 0 | 41 | 0 |
| 29 | 2017 | 5 | 0 | 0 | 12,784 | 0 | 41 | 0 |

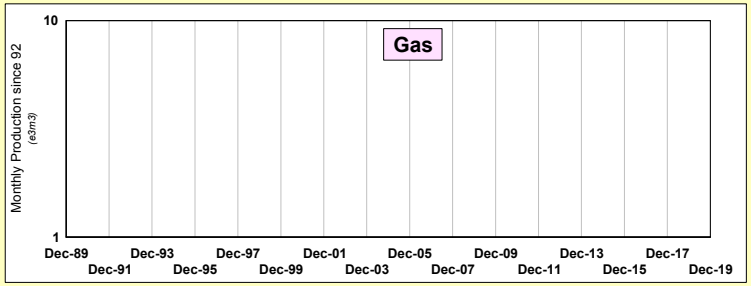
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

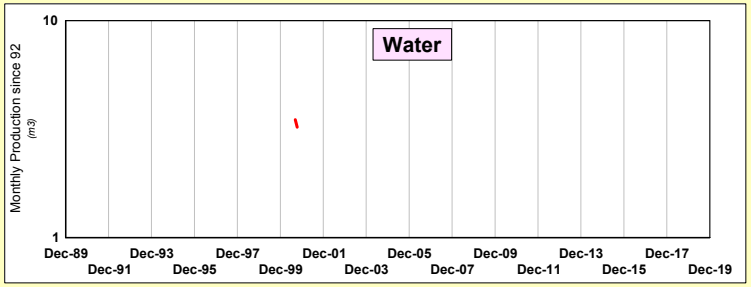
Revised May 27th 2004

## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 11 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007524**

Well Name: **Farmers No. 2, Romney 8 - 9 - II**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | | 0.0000 | last 10 years |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **169** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **4,919** | m3 | **0** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **5,012** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **9,931** | m3 | **0** | e3m3 | **0** | m3 |
| Peak Rate: | 1.5 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 3.6 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.2 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.5 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 5% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 212 | 0 | 0 | 212 | 0 | 0 | 0 |
| 2 | 1990 | 447 | 0 | 0 | 659 | 0 | 0 | 0 |
| 3 | 1991 | 453 | 0 | 0 | 1,112 | 0 | 0 | 0 |
| 4 | 1992 | 390 | 0 | 0 | 1,502 | 0 | 0 | 0 |
| 5 | 1993 | 271 | 0 | 0 | 1,773 | 0 | 0 | 0 |
| 6 | 1994 | 330 | 0 | 0 | 2,103 | 0 | 0 | 0 |
| 7 | 1995 | 324 | 0 | 0 | 2,427 | 0 | 0 | 0 |
| 8 | 1996 | 329 | 0 | 0 | 2,755 | 0 | 0 | 0 |
| 9 | 1997 | 413 | 0 | 0 | 3,168 | 0 | 0 | 0 |
| 10 | 1998 | 327 | 0 | 0 | 3,495 | 0 | 0 | 0 |
| 11 | 1999 | 544 | 0 | 0 | 4,039 | 0 | 0 | 0 |
| 12 | 2000 | 493 | 0 | 0 | 4,532 | 0 | 0 | 0 |
| 13 | 2001 | 218 | 0 | 0 | 4,750 | 0 | 0 | 0 |
| 14 | 2002 | 169 | 0 | 0 | 4,919 | 0 | 0 | 0 |
| 15 | 2003 | 467 | 0 | 0 | 5,386 | 0 | 0 | 0 |
| 16 | 2004 | 444 | 0 | 0 | 5,829 | 0 | 0 | 0 |
| 17 | 2005 | 421 | 0 | 0 | 6,251 | 0 | 0 | 0 |
| 18 | 2006 | 400 | 0 | 0 | 6,651 | 0 | 0 | 0 |
| 19 | 2007 | 380 | 0 | 0 | 7,031 | 0 | 0 | 0 |
| 20 | 2008 | 361 | 0 | 0 | 7,393 | 0 | 0 | 0 |
| 21 | 2009 | 343 | 0 | 0 | 7,736 | 0 | 0 | 0 |
| 22 | 2010 | 326 | 0 | 0 | 8,062 | 0 | 0 | 0 |
| 23 | 2011 | 310 | 0 | 0 | 8,372 | 0 | 0 | 0 |
| 24 | 2012 | 294 | 0 | 0 | 8,666 | 0 | 0 | 0 |
| 25 | 2013 | 280 | 0 | 0 | 8,945 | 0 | 0 | 0 |
| 26 | 2014 | 266 | 0 | 0 | 9,211 | 0 | 0 | 0 |
| 27 | 2015 | 252 | 0 | 0 | 9,463 | 0 | 0 | 0 |
| 28 | 2016 | 240 | 0 | 0 | 9,703 | 0 | 0 | 0 |
| 29 | 2017 | 228 | 0 | 0 | 9,931 | 0 | 0 | 0 |

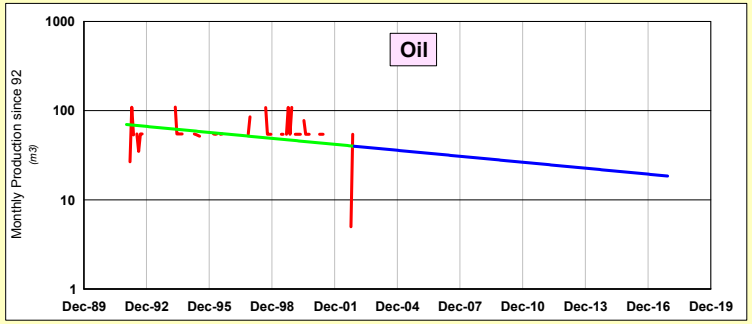
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

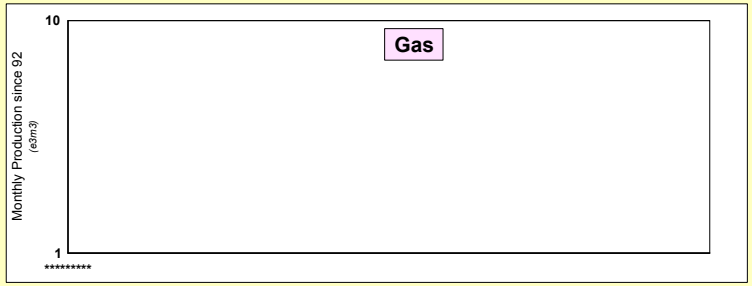
Revised May 27th 2004

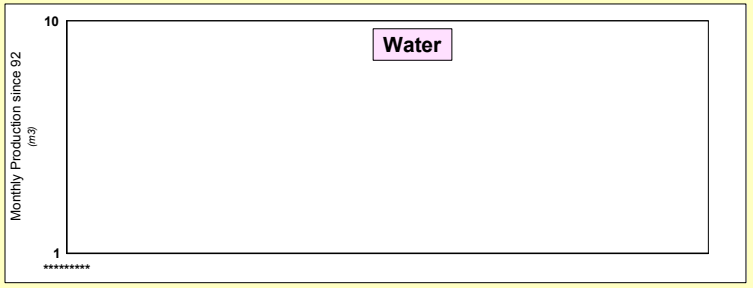
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 40 | m3/mo. |
| Decline Rate: | 5% | per year | Decline Rate: | 5% | per year |
| Decline Factor: | **0.0043** | per month | Decline Factor: | **0.0043** | per month |



Well No.: **T007497**

Well Name: **Telesis et al 34163, Romney 4 - 9 - I**

Status: **Abandoned Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 5 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.1570 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 33.7062 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **6,421** | m3 | **24** | e3m3 | **812** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **6,421** | m3 | **24** | e3m3 | **812** | m3 |
| Peak Rate: | 3.5 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 5.4 | m3/d | 0.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.3 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

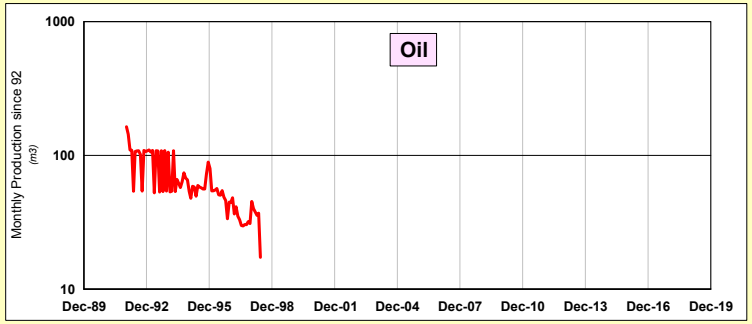
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 34 | 0 | 0 | 34 | 0 | 0 | 0 |
| 1 | 1990 | 0 | 0 | 0 | 34 | 0 | 0 | ERR |
| 2 | 1991 | 1,213 | 0 | 0 | 1,246 | 0 | 0 | 0 |
| 3 | 1992 | 1,278 | 0 | 324 | 2,524 | 0 | 324 | 0 |
| 4 | 1993 | 1,082 | 0 | 65 | 3,606 | 0 | 389 | 0 |
| 5 | 1994 | 833 | 0 | 58 | 4,438 | 0 | 446 | 0 |
| 6 | 1995 | 718 | 0 | 79 | 5,156 | 0 | 526 | 0 |
| 7 | 1996 | 630 | 0 | 111 | 5,786 | 0 | 636 | 0 |
| 8 | 1997 | 422 | 8 | 74 | 6,208 | 8 | 711 | 18 |
| 9 | 1998 | 213 | 16 | 102 | 6,421 | 24 | 812 | 77 |
| 9 | 1999 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2000 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2001 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2002 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2003 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2004 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2005 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2006 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2007 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2008 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2009 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2010 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2011 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2012 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2013 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2014 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2015 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2016 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |
| 9 | 2017 | 0 | 0 | 0 | 6,421 | 24 | 812 | ERR |

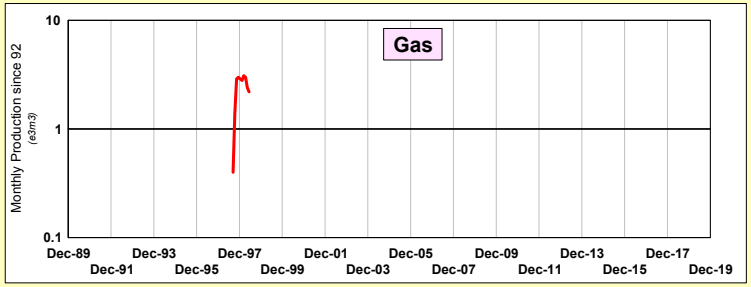
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

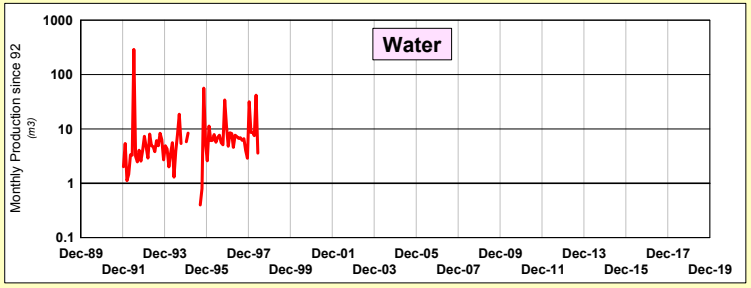
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | **0.0000** | per month | Decline Factor: | **0.0000** | per month |



Well No.: **T007371**

Well Name: **Farmers No. 1, Romney 7 - 9 - II**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 12 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0000 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 0.0000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **109** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **15,149** | m3 | **101** | e3m3 | **0** | m3 |
| Total Recovery: | **771** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **15,920** | m3 | **101** | e3m3 | **0** | m3 |
| Peak Rate: | 7.8 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 6.0 | m3/d | 0.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 7.8 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.3 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 160 | 0 | 0 | 160 | 0 | 0 | 0 |
| 2 | 1989 | 2,849 | 0 | 0 | 3,009 | 0 | 0 | 0 |
| 3 | 1990 | 1,745 | 0 | 0 | 4,754 | 0 | 0 | 0 |
| 4 | 1991 | 2,133 | 0 | 0 | 6,887 | 0 | 0 | 0 |
| 5 | 1992 | 1,557 | 3 | 0 | 8,444 | 3 | 0 | 2 |
| 6 | 1993 | 1,092 | 51 | 0 | 9,536 | 54 | 0 | 47 |
| 7 | 1994 | 972 | 47 | 0 | 10,508 | 101 | 0 | 48 |
| 8 | 1995 | 1,138 | 0 | 0 | 11,646 | 101 | 0 | 0 |
| 9 | 1996 | 1,006 | 0 | 0 | 12,652 | 101 | 0 | 0 |
| 10 | 1997 | 872 | 0 | 0 | 13,524 | 101 | 0 | 0 |
| 11 | 1998 | 627 | 0 | 0 | 14,151 | 101 | 0 | 0 |
| 12 | 1999 | 598 | 0 | 0 | 14,748 | 101 | 0 | 0 |
| 13 | 2000 | 237 | 0 | 0 | 14,985 | 101 | 0 | 0 |
| 14 | 2001 | 55 | 0 | 0 | 15,040 | 101 | 0 | 0 |
| 15 | 2002 | 109 | 0 | 0 | 15,149 | 101 | 0 | 0 |
| 16 | 2003 | 160 | 0 | 0 | 15,308 | 101 | 0 | 0 |
| 17 | 2004 | 128 | 0 | 0 | 15,436 | 101 | 0 | 0 |
| 18 | 2005 | 102 | 0 | 0 | 15,539 | 101 | 0 | 0 |
| 19 | 2006 | 82 | 0 | 0 | 15,620 | 101 | 0 | 0 |
| 20 | 2007 | 65 | 0 | 0 | 15,686 | 101 | 0 | 0 |
| 21 | 2008 | 52 | 0 | 0 | 15,738 | 101 | 0 | 0 |
| 22 | 2009 | 42 | 0 | 0 | 15,780 | 101 | 0 | 0 |
| 23 | 2010 | 34 | 0 | 0 | 15,814 | 101 | 0 | 0 |
| 24 | 2011 | 27 | 0 | 0 | 15,840 | 101 | 0 | 0 |
| 25 | 2012 | 21 | 0 | 0 | 15,862 | 101 | 0 | 0 |
| 26 | 2013 | 17 | 0 | 0 | 15,879 | 101 | 0 | 0 |
| 27 | 2014 | 14 | 0 | 0 | 15,893 | 101 | 0 | 0 |
| 28 | 2015 | 11 | 0 | 0 | 15,904 | 101 | 0 | 0 |
| 29 | 2016 | 9 | 0 | 0 | 15,913 | 101 | 0 | 0 |
| 30 | 2017 | 7 | 0 | 0 | 15,920 | 101 | 0 | 0 |

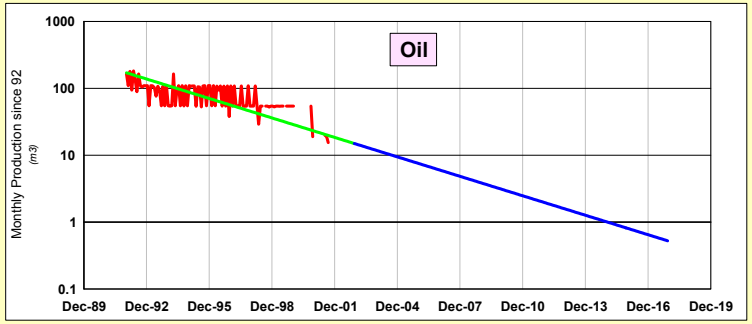
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

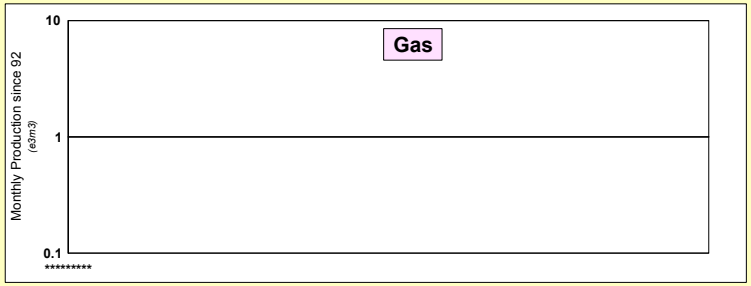
Revised May 27th 2004

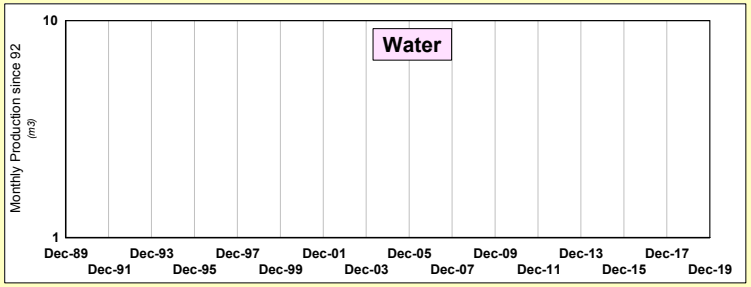
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 15 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007272**

Well Name: **Cons et al 34161, Romney 1 - 7 - II**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 183 | m3 per m3 | 401 | last year | |
| 2002 Water/Oil ratio: | 0.1946 | m3 per m3 | 0.0705 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.4857 | m3 per e3m3 | 0.3853 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **313** | m3/yr | **126** | e3m3/yr | **61** | m3/yr |
| Cumm to Date: | **19,507** | m3 | **2,268** | e3m3 | **874** | m3 |
| Remaining Recoverable: | **732** | m3 | **293** | e3m3 | **142** | m3 |
| Total Recovery: | **20,239** | m3 | **2,560** | e3m3 | **1,016** | m3 |
| Peak Rate: | 9.1 | m3/d | 1.8 | e3m3/d | based on annual | |
| Peak Rate: | 16.0 | m3/d | 3.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 7.1 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.9 | m3/d | 0.3 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

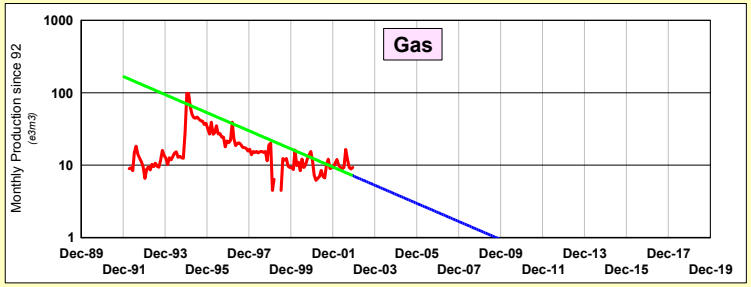
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 852 | 0 | 0 | 852 | 0 | 0 | 0 |
| 2 | 1989 | 2,580 | 0 | 0 | 3,431 | 0 | 0 | 0 |
| 3 | 1990 | 1,972 | 0 | 0 | 5,403 | 0 | 0 | 0 |
| 4 | 1991 | 1,702 | 0 | 0 | 7,106 | 0 | 0 | 0 |
| 5 | 1992 | 1,852 | 107 | 39 | 8,958 | 107 | 39 | 58 |
| 6 | 1993 | 1,751 | 125 | 50 | 10,710 | 232 | 89 | 71 |
| 7 | 1994 | 1,429 | 170 | 81 | 12,139 | 402 | 170 | 119 |
| 8 | 1995 | 3,337 | 645 | 49 | 15,476 | 1,047 | 219 | 193 |
| 9 | 1996 | 1,295 | 331 | 113 | 16,771 | 1,378 | 331 | 256 |
| 10 | 1997 | 824 | 252 | 143 | 17,595 | 1,629 | 475 | 305 |
| 11 | 1998 | 596 | 183 | 92 | 18,191 | 1,813 | 566 | 308 |
| 12 | 1999 | 434 | 91 | 93 | 18,624 | 1,904 | 659 | 210 |
| 13 | 2000 | 279 | 137 | 99 | 18,903 | 2,041 | 758 | 490 |
| 14 | 2001 | 290 | 101 | 55 | 19,193 | 2,142 | 813 | 349 |
| 15 | 2002 | 313 | 126 | 61 | 19,507 | 2,268 | 874 | 401 |
| 16 | 2003 | 185 | 74 | 36 | 19,692 | 2,342 | 910 | 400 |
| 17 | 2004 | 139 | 56 | 27 | 19,831 | 2,397 | 937 | 400 |
| 18 | 2005 | 104 | 42 | 20 | 19,936 | 2,439 | 957 | 400 |
| 19 | 2006 | 78 | 31 | 15 | 20,014 | 2,470 | 972 | 400 |
| 20 | 2007 | 59 | 23 | 11 | 20,072 | 2,494 | 984 | 400 |
| 21 | 2008 | 44 | 18 | 9 | 20,116 | 2,512 | 992 | 400 |
| 22 | 2009 | 33 | 13 | 6 | 20,149 | 2,525 | 999 | 400 |
| 23 | 2010 | 25 | 10 | 5 | 20,174 | 2,535 | 1,004 | 400 |
| 24 | 2011 | 19 | 7 | 4 | 20,193 | 2,542 | 1,007 | 400 |
| 25 | 2012 | 14 | 6 | 3 | 20,207 | 2,548 | 1,010 | 400 |
| 26 | 2013 | 10 | 4 | 2 | 20,217 | 2,552 | 1,012 | 400 |
| 27 | 2014 | 8 | 3 | 2 | 20,225 | 2,555 | 1,014 | 400 |
| 28 | 2015 | 6 | 2 | 1 | 20,231 | 2,557 | 1,015 | 400 |
| 29 | 2016 | 4 | 2 | 1 | 20,235 | 2,559 | 1,016 | 400 |
| 30 | 2017 | 3 | 1 | 1 | 20,239 | 2,560 | 1,016 | 400 |

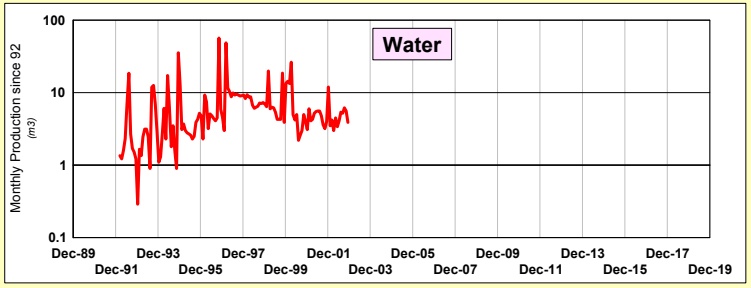
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 400 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 18 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T006944**

Well Name: **Cons et al 34011, Romney 3 - 8 - II**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 217 | m3 per m3 | 307 | last year | |
| 2002 Water/Oil ratio: | 13.0348 | m3 per m3 | 5.7897 | last 10 years | |
| 2002 Water/ Gas Ratio: | 42.4188 | m3 per e3m3 | 26.6323 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,295** | m3/yr | **398** | e3m3/yr | **16,883** | m3/yr |
| Cumm to Date: | **64,613** | m3 | **7,654** | e3m3 | **203,852** | m3 |
| Remaining Recoverable: | **4,665** | m3 | **1,446** | e3m3 | **60,806** | m3 |
| Total Recovery: | **69,278** | m3 | **9,100** | e3m3 | **264,658** | m3 |
| Peak Rate: | 16.1 | m3/d | 5.6 | e3m3/d | based on annual | |
| Peak Rate: | 23.4 | m3/d | 9.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 14.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 3.5 | m3/d | 1.1 | e3m3/d | | |
| Current decline rate: | 22% | | annually | | | |

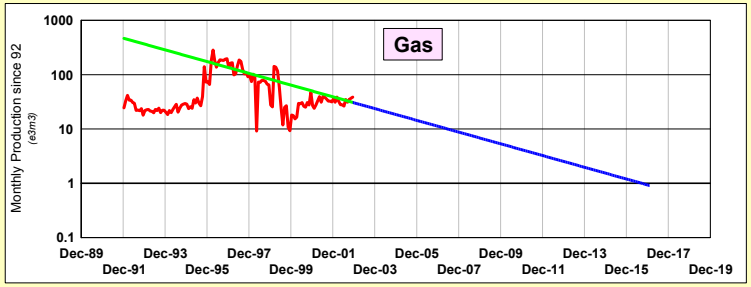
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1986 | 3,171 | 0 | 0 | 3,171 | 0 | 0 | 0 |
| 2 | 1987 | 5,246 | 0 | 0 | 8,416 | 0 | 0 | 0 |
| 3 | 1988 | 4,828 | 0 | 0 | 13,244 | 0 | 0 | 0 |
| 4 | 1989 | 4,905 | 0 | 0 | 18,149 | 0 | 0 | 0 |
| 5 | 1990 | 5,883 | 0 | 0 | 24,033 | 0 | 0 | 0 |
| 6 | 1991 | 5,371 | 0 | 0 | 29,404 | 0 | 0 | 0 |
| 7 | 1992 | 4,431 | 336 | 16,398 | 33,835 | 336 | 16,398 | 76 |
| 8 | 1993 | 4,038 | 264 | 16,931 | 37,872 | 600 | 33,328 | 65 |
| 9 | 1994 | 3,530 | 288 | 15,845 | 41,402 | 888 | 49,173 | 82 |
| 10 | 1995 | 3,513 | 515 | 17,080 | 44,915 | 1,402 | 66,252 | 146 |
| 11 | 1996 | 5,618 | 2,045 | 29,922 | 50,533 | 3,447 | 96,175 | 364 |
| 12 | 1997 | 4,121 | 1,600 | 25,273 | 54,654 | 5,047 | 121,448 | 388 |
| 13 | 1998 | 3,331 | 884 | 21,239 | 57,984 | 5,931 | 142,687 | 265 |
| 14 | 1999 | 1,754 | 618 | 11,625 | 59,738 | 6,549 | 154,312 | 352 |
| 15 | 2000 | 1,779 | 314 | 15,347 | 61,517 | 6,863 | 169,659 | 177 |
| 16 | 2001 | 1,801 | 393 | 17,310 | 63,318 | 7,256 | 186,970 | 218 |
| 17 | 2002 | 1,295 | 398 | 16,883 | 64,613 | 7,654 | 203,852 | 307 |
| 18 | 2003 | 1,052 | 326 | 13,707 | 65,664 | 7,980 | 217,559 | 310 |
| 19 | 2004 | 820 | 254 | 10,692 | 66,485 | 8,235 | 228,251 | 310 |
| 20 | 2005 | 640 | 198 | 8,339 | 67,124 | 8,433 | 236,590 | 310 |
| 21 | 2006 | 499 | 155 | 6,505 | 67,623 | 8,588 | 243,095 | 310 |
| 22 | 2007 | 389 | 121 | 5,074 | 68,013 | 8,708 | 248,169 | 310 |
| 23 | 2008 | 304 | 94 | 3,957 | 68,316 | 8,802 | 252,126 | 310 |
| 24 | 2009 | 237 | 73 | 3,087 | 68,553 | 8,876 | 255,213 | 310 |
| 25 | 2010 | 185 | 57 | 2,408 | 68,738 | 8,933 | 257,621 | 310 |
| 26 | 2011 | 144 | 45 | 1,878 | 68,882 | 8,978 | 259,499 | 310 |
| 27 | 2012 | 112 | 35 | 1,465 | 68,994 | 9,013 | 260,964 | 310 |
| 28 | 2013 | 88 | 27 | 1,143 | 69,082 | 9,040 | 262,106 | 310 |
| 29 | 2014 | 68 | 21 | 891 | 69,150 | 9,061 | 262,998 | 310 |
| 30 | 2015 | 53 | 17 | 695 | 69,204 | 9,077 | 263,693 | 310 |
| 31 | 2016 | 42 | 13 | 542 | 69,245 | 9,090 | 264,235 | 310 |
| 32 | 2017 | 32 | 10 | 423 | 69,278 | 9,100 | 264,658 | 310 |

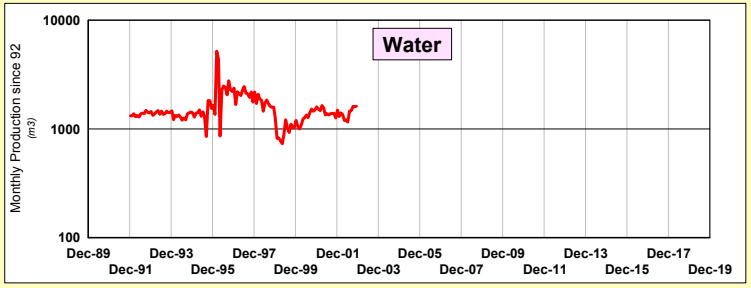
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 310 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 100 | m3/mo. |
| Decline Rate: | 22% | per year | Decline Rate: | 22% | per year |
| Decline Factor: | 0.0205 | per month | Decline Factor: | 0.0205 | per month |



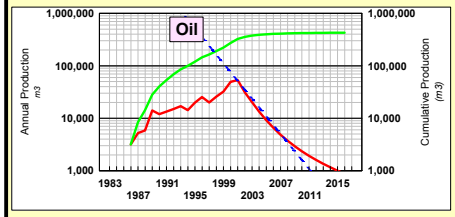
MNR Pool: **Romney 3-8-II**

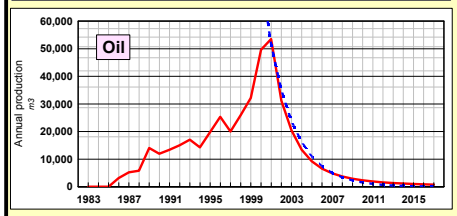
TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

No of Wells: **21**

## Annual & Cumulative Production *(since 1983)*




**32%** Pool Decline

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 31,204 | m3/yr | 7,350 | e3m3/yr | 53,789 | m3/yr |
| Cumm to Date: | 357,850 | m3 | 41,659 | e3m3 | 397,948 | m3 |
| Remaining Recoverable: | 72,381 | m3 | 13,390 | e3m3 | 179,022 | m3 |
| Total recovery: | 430,231 | m3 | 55,049 | e3m3 | 576,970 | m3 |

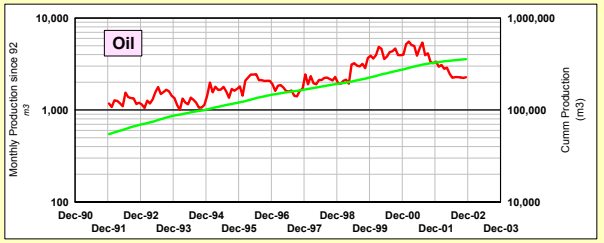
Current Rate: **85** m3/d **20** e3m3/d

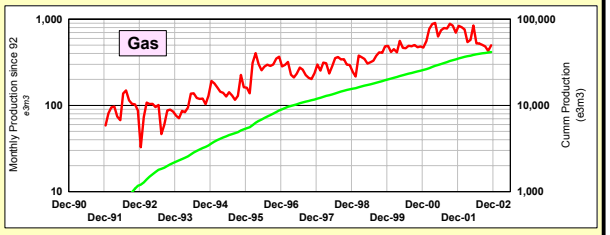
Current decline rate: 32% annually

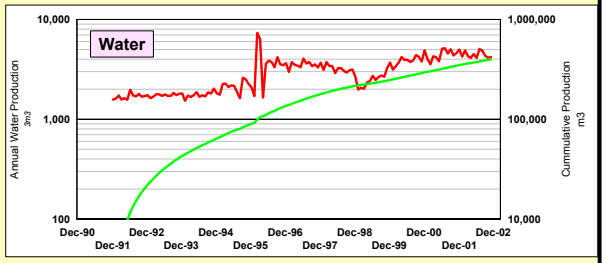
| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1986 | 3,171 | 0 | 0 | 3,171 | 0 | 0 | |
| 1 | 2 | 1987 | 5,246 | 0 | 0 | 8,416 | 0 | 0 | |
| 3 | 3 | 1988 | 5,840 | 0 | 0 | 14,256 | 0 | 0 | |
| 6 | 4 | 1989 | 14,062 | 0 | 0 | 28,318 | 0 | 0 | |
| 5 | 5 | 1990 | 11,981 | 0 | 0 | 40,299 | 0 | 0 | |
| 7 | 6 | 1991 | 13,398 | 0 | 0 | 53,697 | 0 | 0 | |
| 8 | 7 | 1992 | 15,062 | 1,171 | 20,294 | 68,759 | 1,171 | 20,294 | |
| 10 | 8 | 1993 | 17,056 | 987 | 20,936 | 85,814 | 2,158 | 41,230 | 58 |
| 9 | 9 | 1994 | 14,309 | 1,281 | 21,195 | 100,123 | 3,439 | 62,425 | 90 |
| 10 | 10 | 1995 | 19,869 | 1,853 | 25,496 | 119,992 | 5,293 | 87,921 | 93 |
| 13 | 11 | 1996 | 25,390 | 3,459 | 44,970 | 145,382 | 8,751 | 132,891 | 136 |
| 14 | 12 | 1997 | 20,013 | 2,984 | 42,373 | 165,394 | 11,735 | 175,264 | 149 |
| 15 | 13 | 1998 | 25,874 | 3,694 | 39,107 | 191,269 | 15,429 | 214,371 | 143 |
| 17 | 14 | 1999 | 32,183 | 4,197 | 30,073 | 223,452 | 19,626 | 244,444 | 130 |
| 18 | 15 | 2000 | 49,643 | 5,708 | 46,075 | 273,095 | 25,334 | 290,518 | 115 |
| 18 | 16 | 2001 | 53,551 | 8,975 | 53,640 | 326,646 | 34,309 | 344,159 | 168 |
| 18 | 17 | 2002 | 31,204 | 7,350 | 53,789 | 357,850 | 41,659 | 397,948 | 236 |
| | 18 | 2003 | 20,499 | 4,506 | 41,252 | 378,349 | 46,165 | 439,199 | 220 |
| | 19 | 2004 | 13,445 | 2,823 | 30,704 | 391,794 | 48,988 | 469,903 | 210 |
| | 20 | 2005 | 9,230 | 1,827 | 23,318 | 401,025 | 50,815 | 493,221 | 198 |
| | 21 | 2006 | 6,598 | 1,218 | 18,011 | 407,623 | 52,033 | 511,233 | 185 |
| | 22 | 2007 | 4,888 | 835 | 14,108 | 412,511 | 52,868 | 525,340 | 171 |
| | 23 | 2008 | 3,735 | 587 | 11,177 | 416,246 | 53,455 | 536,517 | 157 |
| | 24 | 2009 | 2,932 | 423 | 8,939 | 419,178 | 53,878 | 545,456 | 144 |
| | 25 | 2010 | 2,356 | 311 | 7,203 | 421,534 | 54,188 | 552,659 | 132 |
| | 26 | 2011 | 1,930 | 233 | 5,840 | 423,464 | 54,421 | 558,499 | 121 |
| | 27 | 2012 | 1,607 | 177 | 4,760 | 425,071 | 54,598 | 563,259 | 110 |
| | 28 | 2013 | 1,358 | 137 | 3,895 | 426,428 | 54,735 | 567,154 | 101 |
| | 29 | 2014 | 1,161 | 107 | 3,200 | 427,589 | 54,842 | 570,354 | 92 |
| | 30 | 2015 | 1,002 | 85 | 2,636 | 428,591 | 54,927 | 572,990 | 84 |
| | 31 | 2016 | 873 | 67 | 2,177 | 429,464 | 54,994 | 575,167 | 77 |
| | 32 | 2017 | 767 | 54 | 1,803 | 430,231 | 55,049 | 576,970 | 71 |
| | | To date: | 357,850 | 41,659 | 397,948 | | | | |

Revised May 27th 2004

## Monthly Production vs Month *(1992 to 2002)*



# Romney 3-8-II

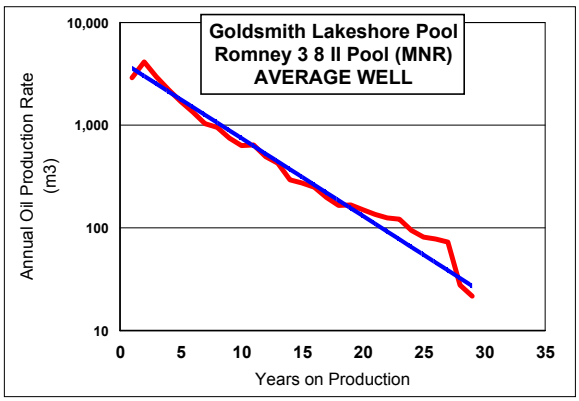
# Average Well

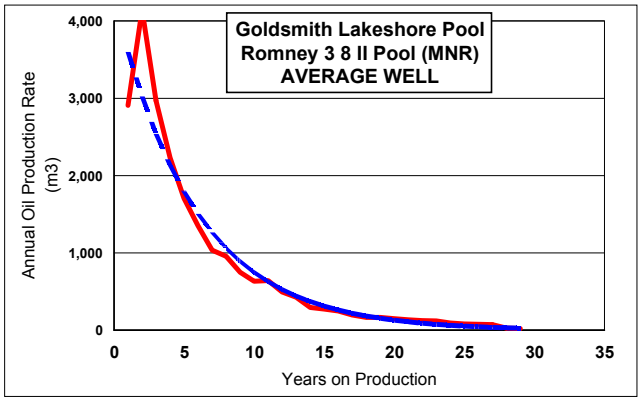
GOR: 0.1370
WOR: 1.3084

| Prod Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|
| 1 | 3,600 | 493 | 4,710 | 3,600 | 493 | 4,710 | 137 |
| 2 | 3,024 | 414 | 3,957 | 6,624 | 907 | 8,667 | 137 |
| 3 | 2,540 | 348 | 3,323 | 9,164 | 1,255 | 11,990 | 137 |
| 4 | 2,134 | 292 | 2,792 | 11,298 | 1,547 | 14,782 | 137 |
| 5 | 1,792 | 245 | 2,345 | 13,090 | 1,793 | 17,127 | 137 |
| 6 | 1,506 | 206 | 1,970 | 14,596 | 1,999 | 19,097 | 137 |
| 7 | 1,265 | 173 | 1,655 | 15,860 | 2,172 | 20,751 | 137 |
| 8 | 1,062 | 146 | 1,390 | 16,923 | 2,318 | 22,141 | 137 |
| 9 | 892 | 122 | 1,168 | 17,815 | 2,440 | 23,309 | 137 |
| 10 | 750 | 103 | 981 | 18,565 | 2,543 | 24,290 | 137 |
| 11 | 630 | 86 | 824 | 19,194 | 2,629 | 25,113 | 137 |
| 12 | 529 | 72 | 692 | 19,723 | 2,701 | 25,805 | 137 |
| 13 | 444 | 61 | 581 | 20,168 | 2,762 | 26,387 | 137 |
| 14 | 373 | 51 | 488 | 20,541 | 2,813 | 26,875 | 137 |
| 15 | 313 | 43 | 410 | 20,854 | 2,856 | 27,285 | 137 |
| 16 | 263 | 36 | 345 | 21,118 | 2,892 | 27,630 | 137 |
| 17 | 221 | 30 | 289 | 21,339 | 2,923 | 27,919 | 137 |
| 18 | 186 | 25 | 243 | 21,525 | 2,948 | 28,162 | 137 |
| 19 | 156 | 21 | 204 | 21,681 | 2,969 | 28,366 | 137 |
| 20 | 131 | 18 | 172 | 21,812 | 2,987 | 28,538 | 137 |
| 21 | 110 | 15 | 144 | 21,922 | 3,003 | 28,682 | 137 |
| 22 | 93 | 13 | 121 | 22,014 | 3,015 | 28,803 | 137 |
| 23 | 78 | 11 | 102 | 22,092 | 3,026 | 28,905 | 137 |
| 24 | 65 | 9 | 85 | 22,157 | 3,035 | 28,990 | 137 |
| 25 | 55 | 8 | 72 | 22,212 | 3,042 | 29,062 | 137 |
| 26 | 46 | 6 | 60 | 22,258 | 3,049 | 29,122 | 137 |
| 27 | 39 | 5 | 51 | 22,297 | 3,054 | 29,173 | 137 |
| 28 | 32 | 4 | 43 | 22,329 | 3,058 | 29,215 | 137 |
| 29 | 27 | 4 | 36 | 22,357 | 3,062 | 29,251 | 137 |
| | 22,357 | 3,062 | 29,251 | | | | |

| | | |
|---|---|---|
| Start: | 3600 | m3 per yearh |
| Decline Rate | 16% | per year |
| Decline Factc | 0.0144 | per month |

22,357
22,512




Revised May 27th 2004

Well No.: **T009784**

Well Name: **Talisman (Horiz. #1-Lateral #1), Romney 6 - 14 - I**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 195 | m3 per m3 | 201 | last year | |
| 2002 Water/Oil ratio: | 0.1436 | m3 per m3 | 0.0981 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.7136 | m3 per e3m3 | 0.5040 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **4,268** | m3/yr | **859** | e3m3/yr | **613** | m3/yr |
| Cumm to Date: | **18,046** | m3 | **3,512** | e3m3 | **1,770** | m3 |
| Remaining Recoverable: | **3,781** | m3 | **756** | e3m3 | **543** | m3 |
| Total Recovery: | **21,827** | m3 | **4,268** | e3m3 | **2,313** | m3 |
| Peak Rate: | 37.7 | m3/d | 7.3 | e3m3/d | based on annual | |
| Peak Rate: | 78.1 | m3/d | 14.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 11.7 | m3/d | 2.4 | e3m3/d | per day based on annual | |
| Current Rate: | 11.7 | m3/d | 2.4 | e3m3/d | | |
| Current decline rate: | 60% | | annually | | | |

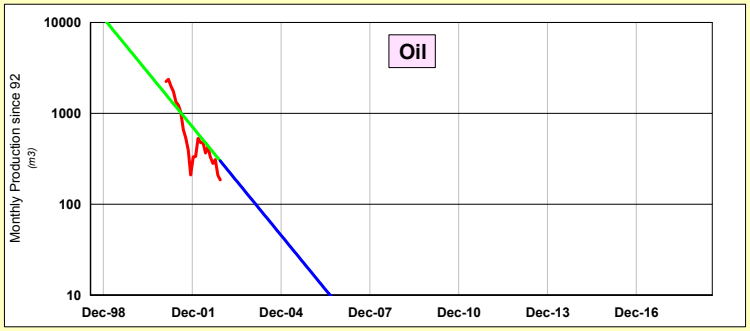
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2001 | 13,778 | 2,653 | 1,157 | 13,778 | 2,653 | 1,157 | 193 |
| 2 | 2002 | 4,268 | 859 | 613 | 18,046 | 3,512 | 1,770 | 201 |
| 3 | 2003 | 2,268 | 454 | 326 | 20,315 | 3,966 | 2,096 | 200 |
| 4 | 2004 | 907 | 181 | 130 | 21,222 | 4,147 | 2,226 | 200 |
| 5 | 2005 | 363 | 73 | 52 | 21,585 | 4,220 | 2,278 | 200 |
| 6 | 2006 | 145 | 29 | 21 | 21,730 | 4,249 | 2,299 | 200 |
| 7 | 2007 | 58 | 12 | 8 | 21,788 | 4,260 | 2,307 | 200 |
| 8 | 2008 | 23 | 5 | 3 | 21,812 | 4,265 | 2,311 | 200 |
| 9 | 2009 | 9 | 2 | 1 | 21,821 | 4,267 | 2,312 | 200 |
| 10 | 2010 | 4 | 1 | 1 | 21,825 | 4,268 | 2,313 | 200 |
| 11 | 2011 | 1 | 0 | 0 | 21,826 | 4,268 | 2,313 | 200 |
| 12 | 2012 | 1 | 0 | 0 | 21,827 | 4,268 | 2,313 | 200 |
| 13 | 2013 | 0 | 0 | 0 | 21,827 | 4,268 | 2,313 | 200 |
| 14 | 2014 | 0 | 0 | 0 | 21,827 | 4,268 | 2,313 | 200 |
| 15 | 2015 | 0 | 0 | 0 | 21,827 | 4,268 | 2,313 | 200 |
| 16 | 2016 | 0 | 0 | 0 | 21,827 | 4,268 | 2,313 | 200 |
| 17 | 2017 | 0 | 0 | 0 | 21,827 | 4,268 | 2,313 | 200 |

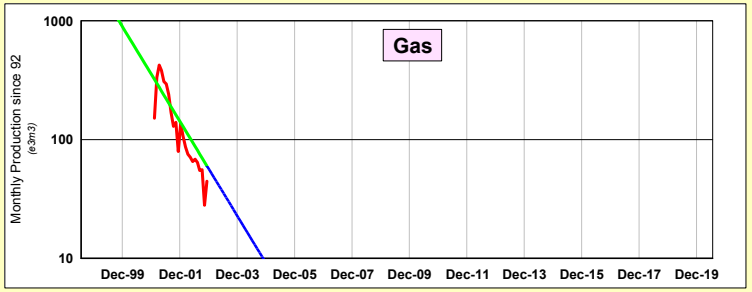
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

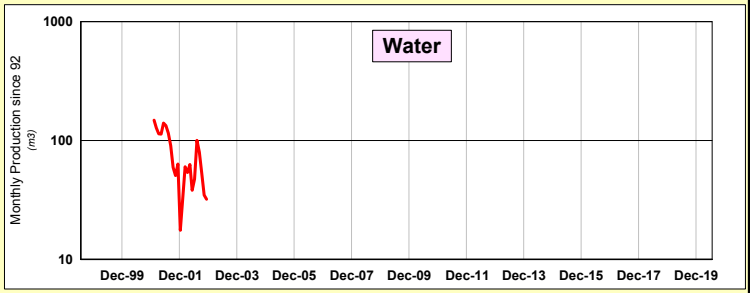
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 200 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 300 | m3/mo. |
| Decline Rate: | 60% | per year | Decline Rate: | 60% | per year |
| Decline Factor: | **0.0735** | per month | Decline Factor: | **0.0735** | per month |



Well No.: **T009468**

Well Name: **Forbes (Horiz.#1), Romney 6 - 11 - I**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 76 | m3 per m3 | 144 | last year | |
| 2002 Water/Oil ratio: | 2.2642 | m3 per m3 | 1.0089 | last 10 years | |
| 2002 Water/ Gas Ratio: | 15.7110 | m3 per e3m3 | 13.2626 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **2,625** | m3/yr | **378** | e3m3/yr | **5,943** | m3/yr |
| Cumm to Date: | **10,069** | m3 | **766** | e3m3 | **10,159** | m3 |
| Remaining Recoverable: | **5,057** | m3 | **758** | e3m3 | **11,449** | m3 |
| Total Recovery: | **15,125** | m3 | **1,524** | e3m3 | **21,608** | m3 |
| Peak Rate: | 15.9 | m3/d | 1.1 | e3m3/d | based on annual | |
| Peak Rate: | 32.2 | m3/d | 11.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 15.9 | m3/d | 1.1 | e3m3/d | per day based on annual | |
| Current Rate: | 7.2 | m3/d | 1.0 | e3m3/d | | |
| Current decline rate: | 40% | | annually | | | |

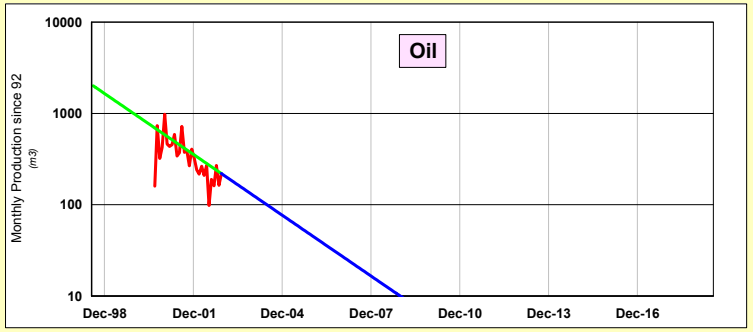
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2000 | 1,643 | 0 | 735 | 1,643 | 0 | 735 | 0 |
| 2 | 2001 | 5,801 | 388 | 3,481 | 7,444 | 388 | 4,215 | 67 |
| 3 | 2002 | 2,625 | 378 | 5,943 | 10,069 | 766 | 10,159 | 144 |
| 4 | 2003 | 2,024 | 304 | 4,582 | 12,092 | 1,070 | 14,741 | 150 |
| 5 | 2004 | 1,214 | 182 | 2,749 | 13,307 | 1,252 | 17,490 | 150 |
| 6 | 2005 | 728 | 109 | 1,649 | 14,035 | 1,361 | 19,139 | 150 |
| 7 | 2006 | 437 | 66 | 990 | 14,472 | 1,426 | 20,129 | 150 |
| 8 | 2007 | 262 | 39 | 594 | 14,734 | 1,466 | 20,723 | 150 |
| 9 | 2008 | 157 | 24 | 356 | 14,892 | 1,489 | 21,079 | 150 |
| 10 | 2009 | 94 | 14 | 214 | 14,986 | 1,504 | 21,293 | 150 |
| 11 | 2010 | 57 | 8 | 128 | 15,043 | 1,512 | 21,421 | 150 |
| 12 | 2011 | 34 | 5 | 77 | 15,077 | 1,517 | 21,498 | 150 |
| 13 | 2012 | 20 | 3 | 46 | 15,097 | 1,520 | 21,544 | 150 |
| 14 | 2013 | 12 | 2 | 28 | 15,109 | 1,522 | 21,572 | 150 |
| 15 | 2014 | 7 | 1 | 17 | 15,117 | 1,523 | 21,588 | 150 |
| 16 | 2015 | 4 | 1 | 10 | 15,121 | 1,524 | 21,598 | 150 |
| 17 | 2016 | 3 | 0 | 6 | 15,124 | 1,524 | 21,604 | 150 |
| 18 | 2017 | 2 | 0 | 4 | 15,125 | 1,524 | 21,608 | 150 |

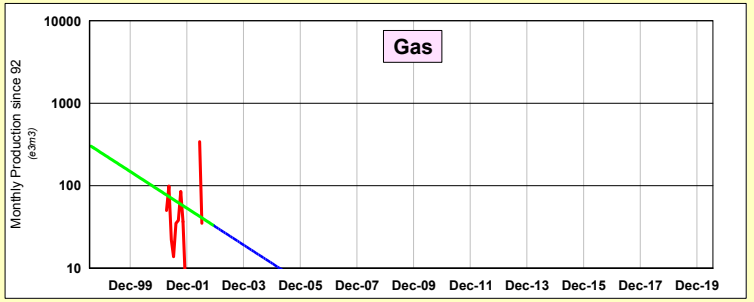
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

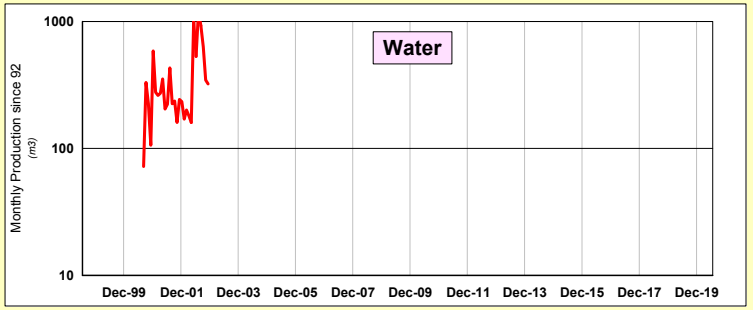
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 150 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 220 | m3/mo. |
| Decline Rate: | 40% | per year | Decline Rate: | 40% | per year |
| Decline Factor: | **0.0417** | per month | Decline Factor: | **0.0417** | per month |



Well No.: **T009247**

Well Name: **Talisman (Horiz.#1), Romney 6 - 11 - I**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 185 | m3 per m3 | 399 | last year | |
| 2002 Water/Oil ratio: | 1.0814 | m3 per m3 | 0.6366 | last 10 years | |
| 2002 Water/ Gas Ratio: | 2.7108 | m3 per e3m3 | 3.4485 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **5,896** | m3/yr | **2,352** | e3m3/yr | **6,376** | m3/yr |
| Cumm to Date: | **27,514** | m3 | **5,080** | e3m3 | **17,517** | m3 |
| Remaining Recoverable: | **8,044** | m3 | **3,218** | e3m3 | **8,699** | m3 |
| Total Recovery: | **35,559** | m3 | **8,297** | e3m3 | **26,216** | m3 |
| Peak Rate: | 31.8 | m3/d | 6.4 | e3m3/d | based on annual | |
| Peak Rate: | 55.8 | m3/d | 11.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 27.4 | m3/d | 4.7 | e3m3/d | per day based on annual | |
| Current Rate: | 16.1 | m3/d | 6.4 | e3m3/d | | |
| Current decline rate: | 40% | | annually | | | |

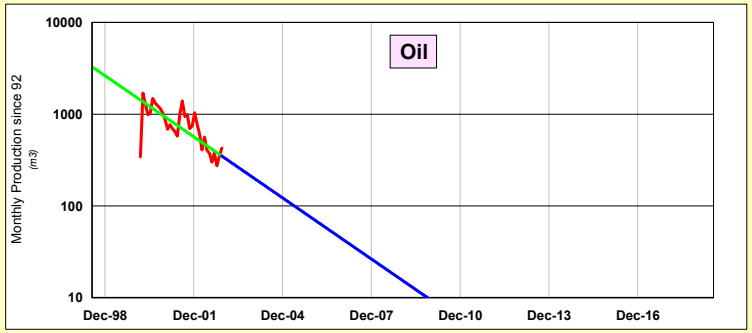
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2000 | 11,600 | 1,028 | 4,860 | 11,600 | 1,028 | 4,860 | 89 |
| 2 | 2001 | 10,019 | 1,700 | 6,281 | 21,618 | 2,728 | 11,141 | 170 |
| 3 | 2002 | 5,896 | 2,352 | 6,376 | 27,514 | 5,080 | 17,517 | 399 |
| 4 | 2003 | 3,219 | 1,288 | 3,481 | 30,733 | 6,367 | 20,998 | 400 |
| 5 | 2004 | 1,932 | 773 | 2,089 | 32,665 | 7,140 | 23,087 | 400 |
| 6 | 2005 | 1,159 | 464 | 1,253 | 33,824 | 7,603 | 24,340 | 400 |
| 7 | 2006 | 695 | 278 | 752 | 34,519 | 7,882 | 25,092 | 400 |
| 8 | 2007 | 417 | 167 | 451 | 34,936 | 8,048 | 25,543 | 400 |
| 9 | 2008 | 250 | 100 | 271 | 35,187 | 8,149 | 25,814 | 400 |
| 10 | 2009 | 150 | 60 | 162 | 35,337 | 8,209 | 25,977 | 400 |
| 11 | 2010 | 90 | 36 | 97 | 35,427 | 8,245 | 26,074 | 400 |
| 12 | 2011 | 54 | 22 | 58 | 35,481 | 8,266 | 26,133 | 400 |
| 13 | 2012 | 32 | 13 | 35 | 35,514 | 8,279 | 26,168 | 400 |
| 14 | 2013 | 19 | 8 | 21 | 35,533 | 8,287 | 26,189 | 400 |
| 15 | 2014 | 12 | 5 | 13 | 35,545 | 8,292 | 26,201 | 400 |
| 16 | 2015 | 7 | 3 | 8 | 35,552 | 8,295 | 26,209 | 400 |
| 17 | 2016 | 4 | 2 | 5 | 35,556 | 8,296 | 26,213 | 400 |
| 18 | 2017 | 3 | 1 | 3 | 35,559 | 8,297 | 26,216 | 400 |

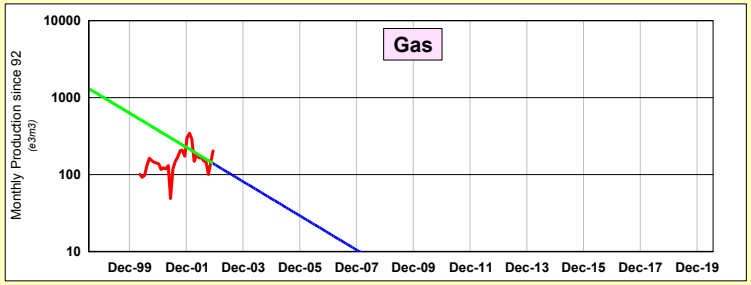
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

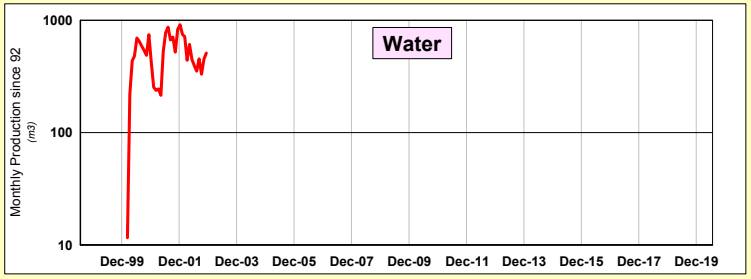
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 400 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 350 | m3/mo. |
| Decline Rate: | 40% | per year | Decline Rate: | 40% | per year |
| Decline Factor: | **0.0417** | per month | Decline Factor: | **0.0417** | per month |



Well No.: **T008960**

Well Name: **Talisman(Horiz.#1-Lateral#1), Romney 5 - 9 - I**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 153 | m3 per m3 | 251 | last year | |
| 2002 Water/Oil ratio: | 0.8507 | m3 per m3 | 0.7683 | last 10 years | |
| 2002 Water/ Gas Ratio: | 3.3860 | m3 per e3m3 | 5.0274 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **5,545** | m3/yr | **1,393** | e3m3/yr | **4,717** | m3/yr |
| Cumm to Date: | **25,235** | m3 | **3,856** | e3m3 | **19,387** | m3 |
| Remaining Recoverable: | **8,044** | m3 | **2,011** | e3m3 | **6,843** | m3 |
| Total Recovery: | **33,279** | m3 | **5,867** | e3m3 | **26,230** | m3 |
| Peak Rate: | 30.2 | m3/d | 4.0 | e3m3/d | based on annual | |
| Peak Rate: | 42.2 | m3/d | 9.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 30.2 | m3/d | 2.6 | e3m3/d | per day based on annual | |
| Current Rate: | 15.2 | m3/d | 3.8 | e3m3/d | | |
| Current decline rate: | 40% | | annually | | | |

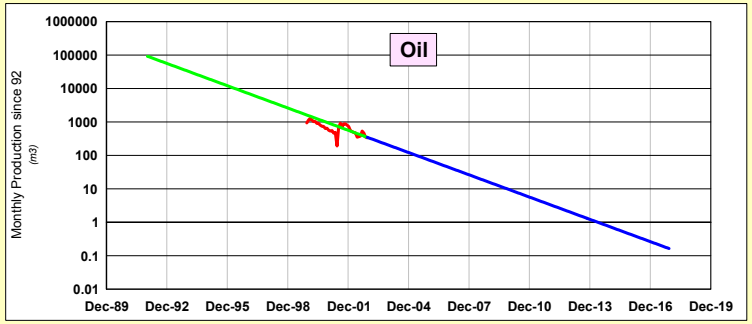
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1999 | 943 | 59 | 463 | 943 | 59 | 463 | 63 |
| 2 | 2000 | 11,046 | 952 | 7,230 | 11,988 | 1,011 | 7,693 | 86 |
| 3 | 2001 | 7,702 | 1,452 | 6,977 | 19,690 | 2,463 | 14,670 | 189 |
| 4 | 2002 | 5,545 | 1,393 | 4,717 | 25,235 | 3,856 | 19,387 | 251 |
| 5 | 2003 | 3,219 | 805 | 2,738 | 28,454 | 4,661 | 22,125 | 250 |
| 6 | 2004 | 1,932 | 483 | 1,643 | 30,385 | 5,144 | 23,768 | 250 |
| 7 | 2005 | 1,159 | 290 | 986 | 31,544 | 5,434 | 24,754 | 250 |
| 8 | 2006 | 695 | 174 | 592 | 32,240 | 5,607 | 25,346 | 250 |
| 9 | 2007 | 417 | 104 | 355 | 32,657 | 5,712 | 25,701 | 250 |
| 10 | 2008 | 250 | 63 | 213 | 32,907 | 5,774 | 25,914 | 250 |
| 11 | 2009 | 150 | 38 | 128 | 33,058 | 5,812 | 26,041 | 250 |
| 12 | 2010 | 90 | 23 | 77 | 33,148 | 5,834 | 26,118 | 250 |
| 13 | 2011 | 54 | 14 | 46 | 33,202 | 5,848 | 26,164 | 250 |
| 14 | 2012 | 32 | 8 | 28 | 33,234 | 5,856 | 26,192 | 250 |
| 15 | 2013 | 19 | 5 | 17 | 33,254 | 5,861 | 26,208 | 250 |
| 16 | 2014 | 12 | 3 | 10 | 33,265 | 5,864 | 26,218 | 250 |
| 17 | 2015 | 7 | 2 | 6 | 33,272 | 5,866 | 26,224 | 250 |
| 18 | 2016 | 4 | 1 | 4 | 33,277 | 5,867 | 26,228 | 250 |
| 19 | 2017 | 3 | 1 | 2 | 33,279 | 5,867 | 26,230 | 250 |

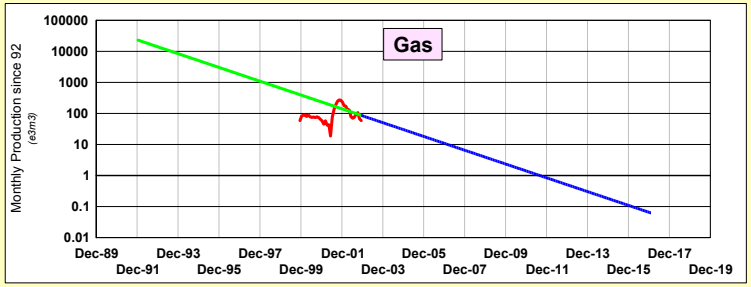
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

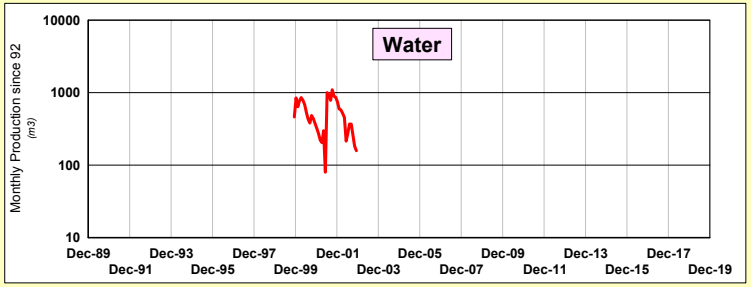
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 250 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 350 | m3/mo. |
| Decline Rate: | 40% | per year | Decline Rate: | 40% | per year |
| Decline Factor: | **0.0417** | per month | Decline Factor: | **0.0417** | per month |



Well No.: **T008889**

Well Name: **Talisman #2 (Horiz.#1), Romney 5 - 8 - I**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 169 | m3 per m3 | 220 | last year | |
| 2002 Water/Oil ratio: | 0.7145 | m3 per m3 | 0.2962 | last 10 years | |
| 2002 Water/ Gas Ratio: | 3.2461 | m3 per e3m3 | 1.7567 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **2,593** | m3/yr | **571** | e3m3/yr | **1,853** | m3/yr |
| Cumm to Date: | **22,145** | m3 | **3,735** | e3m3 | **6,561** | m3 |
| Remaining Recoverable: | **3,132** | m3 | **689** | e3m3 | **2,238** | m3 |
| Total Recovery: | **25,277** | m3 | **4,424** | e3m3 | **8,798** | m3 |
| Peak Rate: | 22.6 | m3/d | 3.9 | e3m3/d | based on annual | |
| Peak Rate: | 45.1 | m3/d | 6.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 20.8 | m3/d | 3.9 | e3m3/d | per day based on annual | |
| Current Rate: | 7.1 | m3/d | 1.6 | e3m3/d | | |
| Current decline rate: | 45% | | annually | | | |

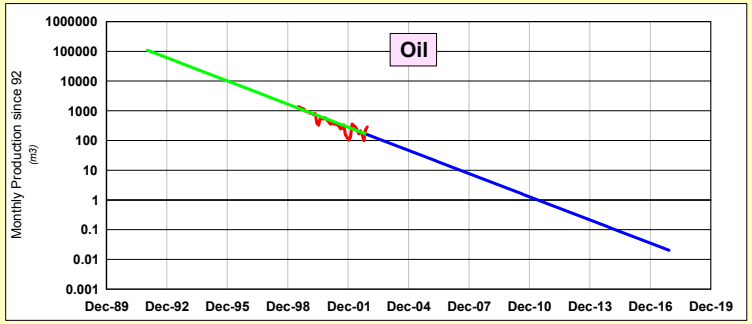
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1999 | 8,260 | 939 | 1,444 | 8,260 | 939 | 1,444 | 114 |
| 2 | 2000 | 7,603 | 1,416 | 1,860 | 15,863 | 2,355 | 3,304 | 186 |
| 3 | 2001 | 3,689 | 809 | 1,404 | 19,552 | 3,164 | 4,708 | 219 |
| 4 | 2002 | 2,593 | 571 | 1,853 | 22,145 | 3,735 | 6,561 | 220 |
| 5 | 2003 | 1,410 | 310 | 1,007 | 23,555 | 4,045 | 7,568 | 220 |
| 6 | 2004 | 775 | 171 | 554 | 24,330 | 4,215 | 8,121 | 220 |
| 7 | 2005 | 426 | 94 | 305 | 24,756 | 4,309 | 8,426 | 220 |
| 8 | 2006 | 235 | 52 | 168 | 24,991 | 4,361 | 8,594 | 220 |
| 9 | 2007 | 129 | 28 | 92 | 25,120 | 4,389 | 8,686 | 220 |
| 10 | 2008 | 71 | 16 | 51 | 25,191 | 4,405 | 8,737 | 220 |
| 11 | 2009 | 39 | 9 | 28 | 25,230 | 4,413 | 8,764 | 220 |
| 12 | 2010 | 21 | 5 | 15 | 25,251 | 4,418 | 8,780 | 220 |
| 13 | 2011 | 12 | 3 | 8 | 25,263 | 4,421 | 8,788 | 220 |
| 14 | 2012 | 6 | 1 | 5 | 25,270 | 4,422 | 8,793 | 220 |
| 15 | 2013 | 4 | 1 | 3 | 25,273 | 4,423 | 8,795 | 220 |
| 16 | 2014 | 2 | 0 | 1 | 25,275 | 4,423 | 8,797 | 220 |
| 17 | 2015 | 1 | 0 | 1 | 25,276 | 4,423 | 8,798 | 220 |
| 18 | 2016 | 1 | 0 | 0 | 25,277 | 4,424 | 8,798 | 220 |
| 19 | 2017 | 0 | 0 | 0 | 25,277 | 4,424 | 8,798 | 220 |

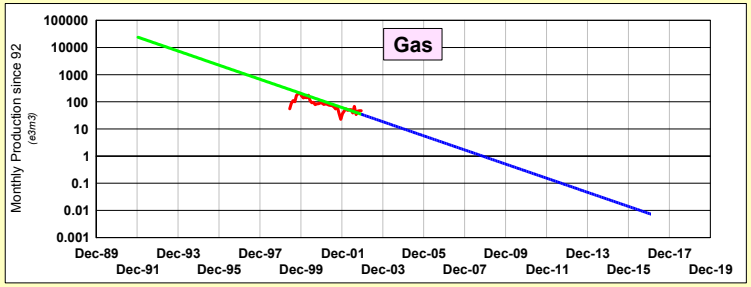
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

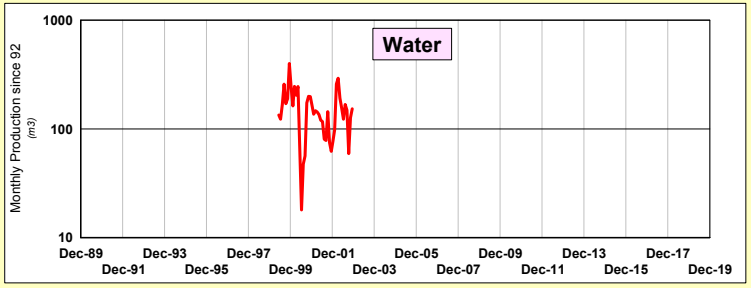
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 220 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 160 | m3/mo. |
| Decline Rate: | 45% | per year | Decline Rate: | 45% | per year |
| Decline Factor: | **0.0486** | per month | Decline Factor: | **0.0486** | per month |



Well No.: **T008819**

Well Name: **Talisman (Horiz.#1), Romney 5 - 9 - I**

Status: **Suspended Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.2270 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 0 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 70 | m3 | 0 | e3m3 | 16 | m3 |
| Remaining Recoverable: | 0 | m3 | 0 | e3m3 | 0 | m3 |
| Total Recovery: | 70 | m3 | 0 | e3m3 | 16 | m3 |
| Peak Rate: | 0.2 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 0.8 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

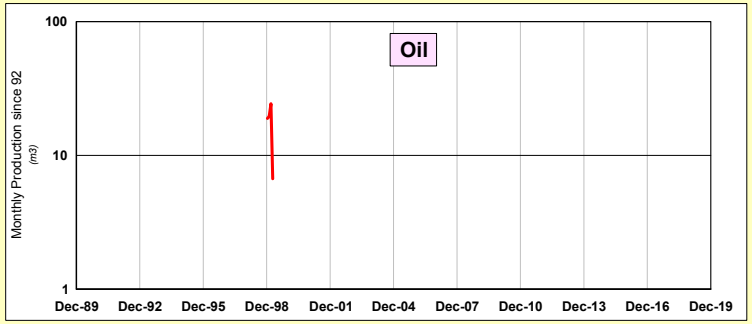
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1999 | 70 | 0 | 16 | 70 | 0 | 16 | 0 |
| 1 | 2000 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2001 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2002 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2003 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2004 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2005 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2006 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2007 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2008 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2009 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2010 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2011 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2012 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2013 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2014 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2015 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2016 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |
| 1 | 2017 | 0 | 0 | 0 | 70 | 0 | 16 | ERR |

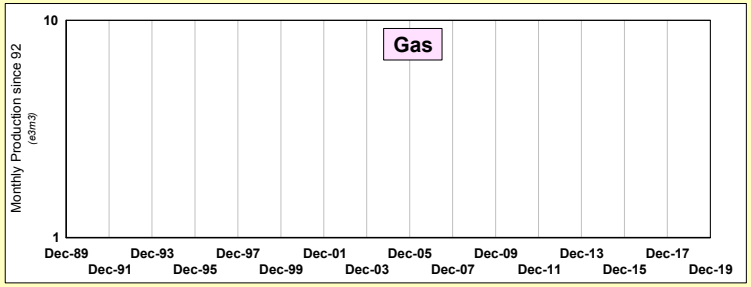
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

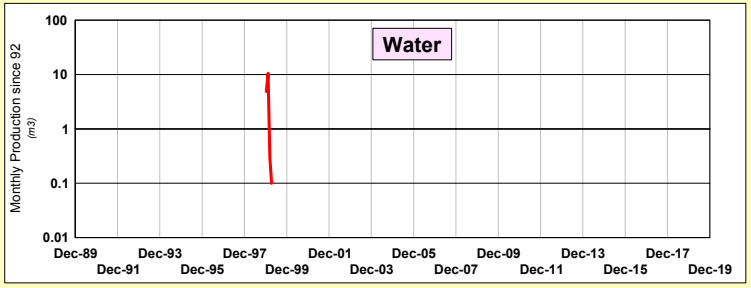
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | 0.0000 | per month | Decline Factor: | 0.0000 | per month |



Well No.: **T008670**

Well Name: **Talisman (Horiz.#1), Romney 5 - 8 - I**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 169 | m3 per m3 | 193 | last year | |
| 2002 Water/Oil ratio: | 0.5749 | m3 per m3 | 0.2945 | last 10 years | |
| 2002 Water/ Gas Ratio: | 2.9734 | m3 per e3m3 | 1.7440 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **2,454** | m3/yr | **474** | e3m3/yr | **1,411** | m3/yr |
| Cumm to Date: | **19,433** | m3 | **3,281** | e3m3 | **5,723** | m3 |
| Remaining Recoverable: | **7,320** | m3 | **1,391** | e3m3 | **4,208** | m3 |
| Total Recovery: | **26,752** | m3 | **4,672** | e3m3 | **9,930** | m3 |
| Peak Rate: | 18.1 | m3/d | 2.9 | e3m3/d | based on annual | |
| Peak Rate: | 20.9 | m3/d | 5.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 18.1 | m3/d | 2.9 | e3m3/d | per day based on annual | |
| Current Rate: | 6.7 | m3/d | 1.3 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

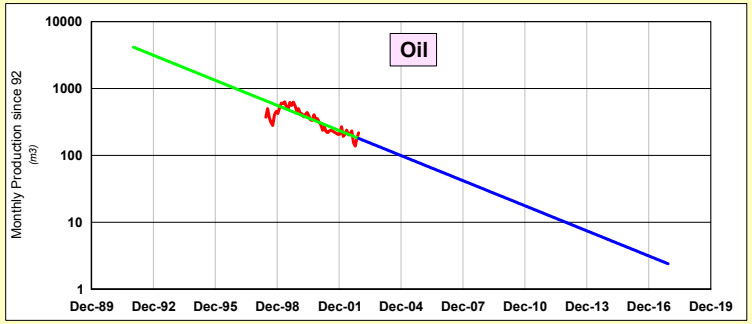
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1998 | 2,696 | 307 | 564 | 2,696 | 307 | 564 | 114 |
| 2 | 1999 | 6,624 | 1,075 | 1,764 | 9,320 | 1,382 | 2,329 | 162 |
| 3 | 2000 | 4,752 | 821 | 916 | 14,072 | 2,204 | 3,244 | 173 |
| 4 | 2001 | 2,907 | 603 | 1,068 | 16,979 | 2,807 | 4,312 | 208 |
| 5 | 2002 | 2,454 | 474 | 1,411 | 19,433 | 3,281 | 5,723 | 193 |
| 6 | 2003 | 1,855 | 352 | 1,066 | 21,287 | 3,634 | 6,789 | 190 |
| 7 | 2004 | 1,391 | 264 | 800 | 22,678 | 3,898 | 7,588 | 190 |
| 8 | 2005 | 1,043 | 198 | 600 | 23,722 | 4,096 | 8,188 | 190 |
| 9 | 2006 | 782 | 149 | 450 | 24,504 | 4,245 | 8,638 | 190 |
| 10 | 2007 | 587 | 111 | 337 | 25,091 | 4,356 | 8,975 | 190 |
| 11 | 2008 | 440 | 84 | 253 | 25,531 | 4,440 | 9,228 | 190 |
| 12 | 2009 | 330 | 63 | 190 | 25,861 | 4,503 | 9,418 | 190 |
| 13 | 2010 | 248 | 47 | 142 | 26,109 | 4,550 | 9,560 | 190 |
| 14 | 2011 | 186 | 35 | 107 | 26,294 | 4,585 | 9,667 | 190 |
| 15 | 2012 | 139 | 26 | 80 | 26,433 | 4,611 | 9,747 | 190 |
| 16 | 2013 | 104 | 20 | 60 | 26,538 | 4,631 | 9,807 | 190 |
| 17 | 2014 | 78 | 15 | 45 | 26,616 | 4,646 | 9,852 | 190 |
| 18 | 2015 | 59 | 11 | 34 | 26,675 | 4,657 | 9,886 | 190 |
| 19 | 2016 | 44 | 8 | 25 | 26,719 | 4,666 | 9,911 | 190 |
| 20 | 2017 | 33 | 6 | 19 | 26,752 | 4,672 | 9,930 | 190 |

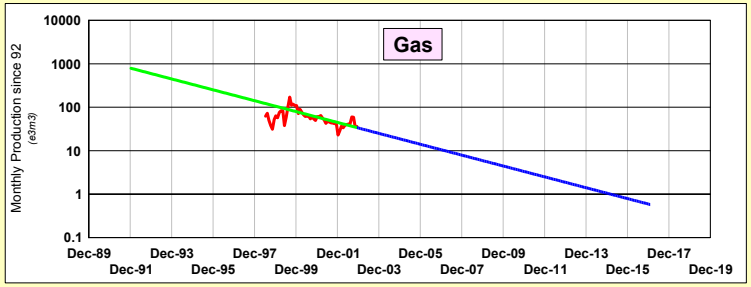
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

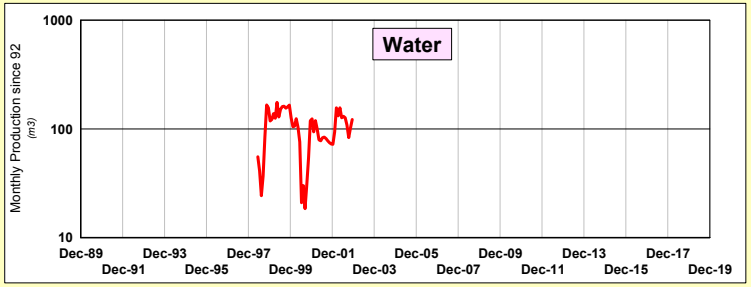
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 190 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 180 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | 0.0237 | per month | Decline Factor: | 0.0237 | per month |



Well No.: **T008551**

Well Name: **Pembina et al (Deviated #1), Romney 7 - 7 - III**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 188 | m3 per m3 | 278 | last year | |
| 2002 Water/Oil ratio: | 0.3539 | m3 per m3 | 0.1059 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.2731 | m3 per e3m3 | 0.5641 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,116** | m3/yr | **310** | e3m3/yr | **395** | m3/yr |
| Cumm to Date: | **16,823** | m3 | **3,157** | e3m3 | **1,781** | m3 |
| Remaining Recoverable: | **2,049** | m3 | **574** | e3m3 | **725** | m3 |
| Total Recovery: | **18,871** | m3 | **3,730** | e3m3 | **2,506** | m3 |
| Peak Rate: | 21.1 | m3/d | 3.7 | e3m3/d | based on annual | |
| Peak Rate: | 28.7 | m3/d | 4.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 21.1 | m3/d | 3.7 | e3m3/d | per day based on annual | |
| Current Rate: | 3.1 | m3/d | 0.8 | e3m3/d | | |
| Current decline rate: | 35% | | annually | | | |

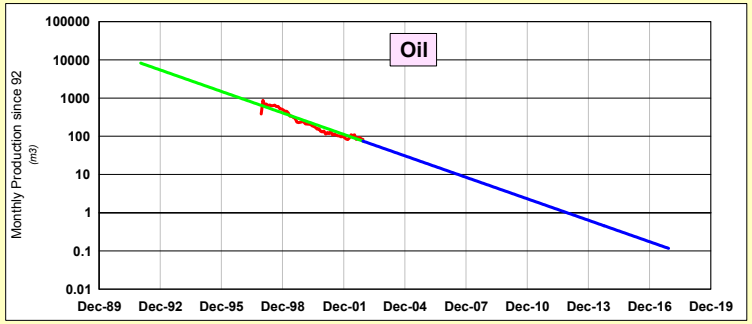
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1997 | 387 | 41 | 45 | 387 | 41 | 45 | 105 |
| 2 | 1998 | 7,719 | 1,348 | 246 | 8,106 | 1,389 | 291 | 175 |
| 3 | 1999 | 4,027 | 633 | 294 | 12,133 | 2,022 | 584 | 157 |
| 4 | 2000 | 2,208 | 450 | 357 | 14,341 | 2,473 | 941 | 204 |
| 5 | 2001 | 1,366 | 374 | 445 | 15,707 | 2,847 | 1,386 | 274 |
| 6 | 2002 | 1,116 | 310 | 395 | 16,823 | 3,157 | 1,781 | 278 |
| 7 | 2003 | 718 | 201 | 254 | 17,541 | 3,358 | 2,035 | 280 |
| 8 | 2004 | 467 | 131 | 165 | 18,007 | 3,489 | 2,200 | 280 |
| 9 | 2005 | 303 | 85 | 107 | 18,311 | 3,574 | 2,308 | 280 |
| 10 | 2006 | 197 | 55 | 70 | 18,508 | 3,629 | 2,377 | 280 |
| 11 | 2007 | 128 | 36 | 45 | 18,636 | 3,665 | 2,423 | 280 |
| 12 | 2008 | 83 | 23 | 29 | 18,720 | 3,688 | 2,452 | 280 |
| 13 | 2009 | 54 | 15 | 19 | 18,774 | 3,703 | 2,471 | 280 |
| 14 | 2010 | 35 | 10 | 12 | 18,809 | 3,713 | 2,484 | 280 |
| 15 | 2011 | 23 | 6 | 8 | 18,832 | 3,719 | 2,492 | 280 |
| 16 | 2012 | 15 | 4 | 5 | 18,847 | 3,724 | 2,497 | 280 |
| 17 | 2013 | 10 | 3 | 3 | 18,856 | 3,726 | 2,501 | 280 |
| 18 | 2014 | 6 | 2 | 2 | 18,863 | 3,728 | 2,503 | 280 |
| 19 | 2015 | 4 | 1 | 1 | 18,867 | 3,729 | 2,504 | 280 |
| 20 | 2016 | 3 | 1 | 1 | 18,870 | 3,730 | 2,505 | 280 |
| 21 | 2017 | 2 | 0 | 1 | 18,871 | 3,730 | 2,506 | 280 |

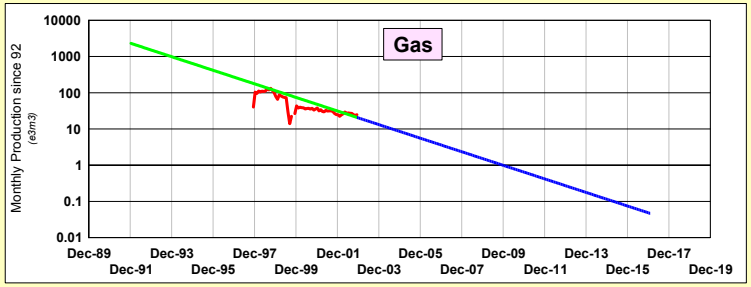
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

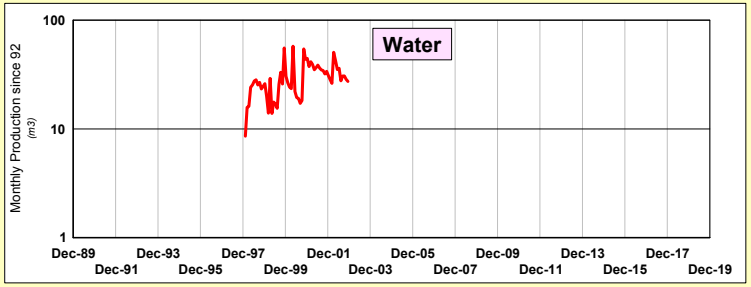
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 280 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 75 | m3/mo. |
| Decline Rate: | 35% | per year | Decline Rate: | 35% | per year |
| Decline Factor: | **0.0353** | per month | Decline Factor: | **0.0353** | per month |



Well No.: **T008419**

Well Name: **Pembina et al (Horiz. #1), Romney 1 - 8 - I**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 133 | m3 per m3 | 198 | last year | |
| 2002 Water/Oil ratio: | 0.1770 | m3 per m3 | 0.0769 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.8921 | m3 per e3m3 | 0.5790 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **668** | m3/yr | **133** | e3m3/yr | **118** | m3/yr |
| Cumm to Date: | **8,075** | m3 | **1,073** | e3m3 | **621** | m3 |
| Remaining Recoverable: | **2,570** | m3 | **514** | e3m3 | **455** | m3 |
| Total Recovery: | **10,645** | m3 | **1,587** | e3m3 | **1,076** | m3 |

| | | | |
|---|---|---|---|
| Peak Rate: | 5.5 m3/d | 0.6 e3m3/d | based on annual |
| Peak Rate: | 9.5 m3/d | 2.0 e3m3/d | since '93 based on monthly |
| Second Year Production: | 5.5 m3/d | 0.6 e3m3/d | per day based on annual |
| Current Rate: | 1.8 m3/d | 0.4 e3m3/d | |
| Current decline rate: | 20% | annually | |

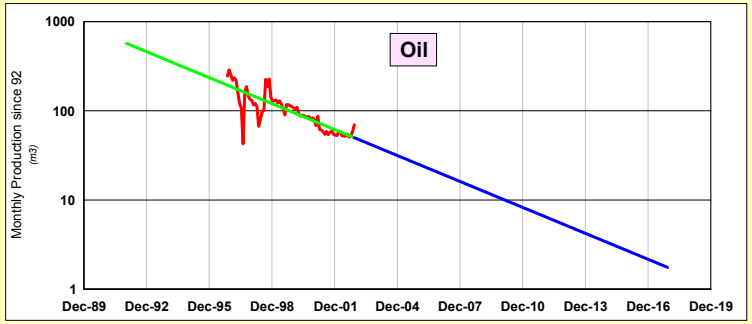
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1996 | 536 | 118 | 12 | 536 | 118 | 12 | 220 |
| 2 | 1997 | 1,992 | 223 | 97 | 2,528 | 341 | 108 | 112 |
| 3 | 1998 | 1,605 | 172 | 82 | 4,133 | 513 | 190 | 107 |
| 4 | 1999 | 1,419 | 140 | 96 | 5,551 | 653 | 286 | 98 |
| 5 | 2000 | 1,101 | 143 | 107 | 6,652 | 796 | 393 | 130 |
| 6 | 2001 | 755 | 144 | 110 | 7,407 | 940 | 503 | 191 |
| 7 | 2002 | 668 | 133 | 118 | 8,075 | 1,073 | 621 | 198 |
| 8 | 2003 | 533 | 107 | 94 | 8,607 | 1,179 | 715 | 200 |
| 9 | 2004 | 426 | 85 | 75 | 9,034 | 1,265 | 791 | 200 |
| 10 | 2005 | 341 | 68 | 60 | 9,375 | 1,333 | 851 | 200 |
| 11 | 2006 | 273 | 55 | 48 | 9,647 | 1,387 | 899 | 200 |
| 12 | 2007 | 218 | 44 | 39 | 9,866 | 1,431 | 938 | 200 |
| 13 | 2008 | 175 | 35 | 31 | 10,040 | 1,466 | 969 | 200 |
| 14 | 2009 | 140 | 28 | 25 | 10,180 | 1,494 | 994 | 200 |
| 15 | 2010 | 112 | 22 | 20 | 10,292 | 1,516 | 1,014 | 200 |
| 16 | 2011 | 89 | 18 | 16 | 10,381 | 1,534 | 1,029 | 200 |
| 17 | 2012 | 72 | 14 | 13 | 10,453 | 1,548 | 1,042 | 200 |
| 18 | 2013 | 57 | 11 | 10 | 10,510 | 1,560 | 1,052 | 200 |
| 19 | 2014 | 46 | 9 | 8 | 10,556 | 1,569 | 1,060 | 200 |
| 20 | 2015 | 37 | 7 | 6 | 10,592 | 1,576 | 1,067 | 200 |
| 21 | 2016 | 29 | 6 | 5 | 10,621 | 1,582 | 1,072 | 200 |
| 22 | 2017 | 23 | 5 | 4 | 10,645 | 1,587 | 1,076 | 200 |

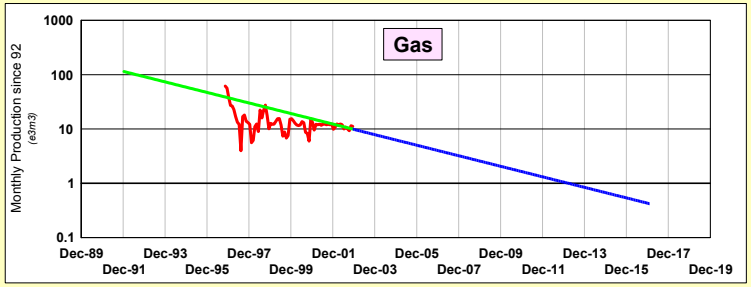
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

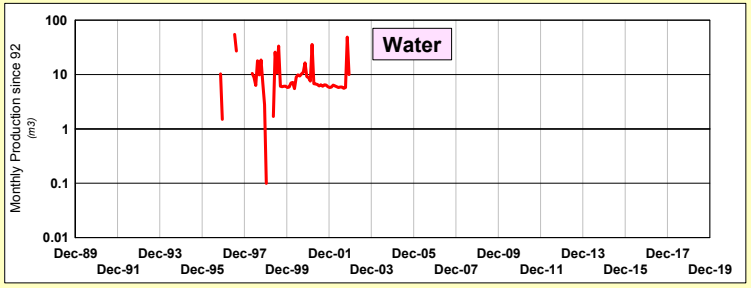
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 200 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 50 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008393**

Well Name: **Forbes et al, Romney 6 - 11 - I**

Status: **Suspended Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.3260 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **9,565** | m3 | **0** | e3m3 | **3,118** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **9,565** | m3 | **0** | e3m3 | **3,118** | m3 |
| Peak Rate: | 8.7 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 24.2 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 5.8 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

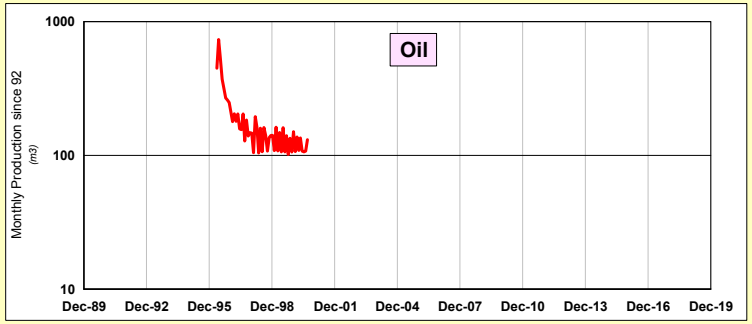
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1996 | 3,179 | 0 | 0 | 3,179 | 0 | 0 | 0 |
| 2 | 1997 | 2,101 | 0 | 1,043 | 5,280 | 0 | 1,043 | 0 |
| 3 | 1998 | 1,667 | 0 | 924 | 6,946 | 0 | 1,967 | 0 |
| 4 | 1999 | 1,526 | 0 | 659 | 8,473 | 0 | 2,626 | 0 |
| 5 | 2000 | 1,092 | 0 | 492 | 9,565 | 0 | 3,118 | 0 |
| 5 | 2001 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2002 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2003 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2004 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2005 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2006 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2007 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2008 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2009 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2010 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2011 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2012 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2013 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2014 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2015 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2016 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |
| 5 | 2017 | 0 | 0 | 0 | 9,565 | 0 | 3,118 | ERR |

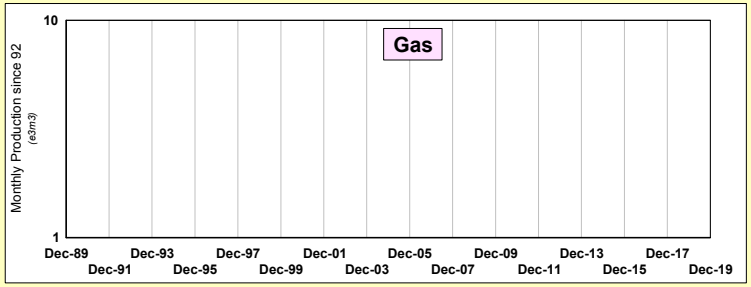
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

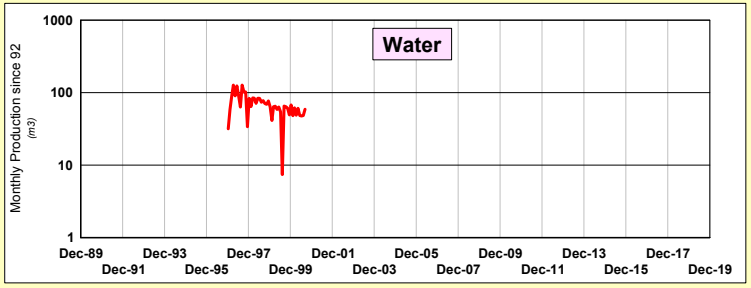
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | 0.0237 | per month | Decline Factor: | 0.0237 | per month |



Well No.: **T008300**

Well Name: **Farmers No. 3, Romney 2 - 10 - I**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0000 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **927** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **12,425** | m3 | **0** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **7,204** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **19,628** | m3 | **0** | e3m3 | **0** | m3 |
| Peak Rate: | 7.8 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 10.9 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 7.8 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 2.5 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

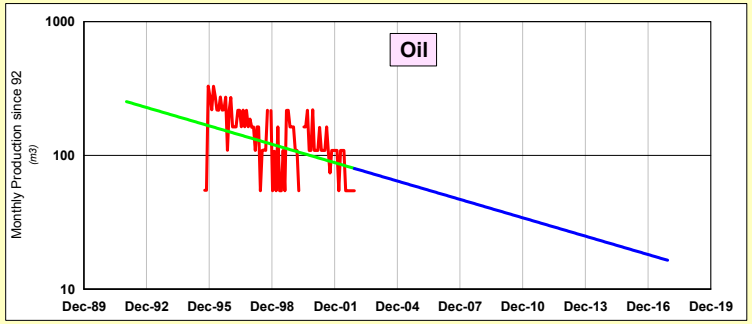
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1995 | 545 | 0 | 0 | 545 | 0 | 0 | 0 |
| 2 | 1996 | 2,848 | 0 | 0 | 3,393 | 0 | 0 | 0 |
| 3 | 1997 | 2,314 | 0 | 0 | 5,706 | 0 | 0 | 0 |
| 4 | 1998 | 1,579 | 0 | 0 | 7,285 | 0 | 0 | 0 |
| 5 | 1999 | 1,415 | 0 | 0 | 8,699 | 0 | 0 | 0 |
| 6 | 2000 | 1,419 | 0 | 0 | 10,118 | 0 | 0 | 0 |
| 7 | 2001 | 1,381 | 0 | 0 | 11,498 | 0 | 0 | 0 |
| 8 | 2002 | 927 | 0 | 0 | 12,425 | 0 | 0 | 0 |
| 9 | 2003 | 907 | 0 | 0 | 13,332 | 0 | 0 | 0 |
| 10 | 2004 | 816 | 0 | 0 | 14,148 | 0 | 0 | 0 |
| 11 | 2005 | 735 | 0 | 0 | 14,883 | 0 | 0 | 0 |
| 12 | 2006 | 661 | 0 | 0 | 15,544 | 0 | 0 | 0 |
| 13 | 2007 | 595 | 0 | 0 | 16,139 | 0 | 0 | 0 |
| 14 | 2008 | 536 | 0 | 0 | 16,675 | 0 | 0 | 0 |
| 15 | 2009 | 482 | 0 | 0 | 17,157 | 0 | 0 | 0 |
| 16 | 2010 | 434 | 0 | 0 | 17,591 | 0 | 0 | 0 |
| 17 | 2011 | 391 | 0 | 0 | 17,982 | 0 | 0 | 0 |
| 18 | 2012 | 351 | 0 | 0 | 18,333 | 0 | 0 | 0 |
| 19 | 2013 | 316 | 0 | 0 | 18,649 | 0 | 0 | 0 |
| 20 | 2014 | 285 | 0 | 0 | 18,934 | 0 | 0 | 0 |
| 21 | 2015 | 256 | 0 | 0 | 19,190 | 0 | 0 | 0 |
| 22 | 2016 | 231 | 0 | 0 | 19,421 | 0 | 0 | 0 |
| 23 | 2017 | 208 | 0 | 0 | 19,628 | 0 | 0 | 0 |

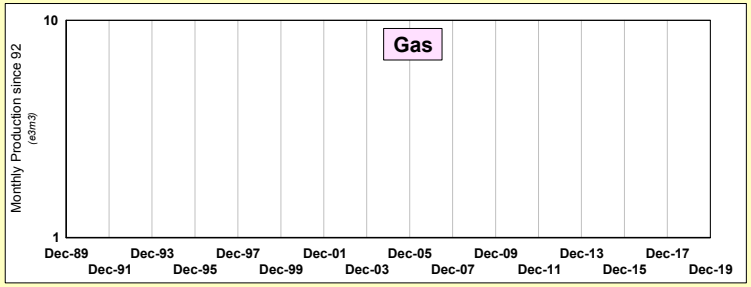
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

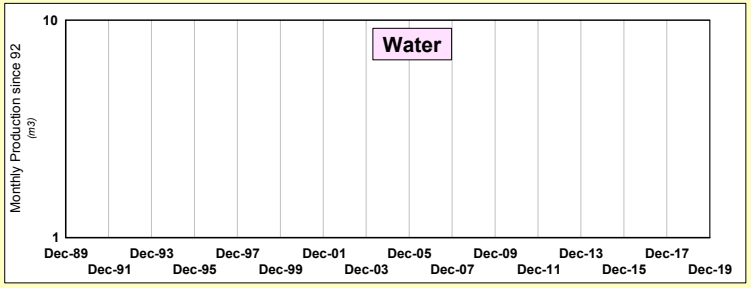
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 80 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T008061**

Well Name: **Telesis et al 34165, Romney 2 - 9 - I**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 181 | m3 per m3 | 247 | last year |
| 2002 Water/Oil ratio: | 14.2041 | m3 per m3 | 7.0639 | last 10 years |
| 2002 Water/ Gas Ratio: | 57.4214 | m3 per e3m3 | 38.9496 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **797** | m3/yr | **197** | e3m3/yr | **11,324** | m3/yr |
| Cumm to Date: | **10,790** | m3 | **1,957** | e3m3 | **76,220** | m3 |
| Remaining Recoverable: | **4,685** | m3 | **937** | e3m3 | **66,550** | m3 |
| Total Recovery: | **15,475** | m3 | **2,894** | e3m3 | **142,770** | m3 |
| Peak Rate: | 6.2 | m3/d | 1.1 | e3m3/d | based on annual | |
| Peak Rate: | 8.9 | m3/d | 1.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 6.2 | m3/d | 1.1 | e3m3/d | per day based on annual | |
| Current Rate: | 2.2 | m3/d | 0.5 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

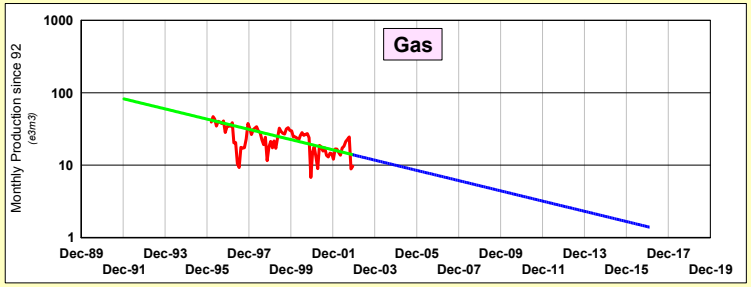
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 14 | 0 | 0 | 14 | 0 | 0 | 0 |
| 1 | 1994 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1995 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 2 | 1996 | 2,265 | 385 | 10,496 | 2,279 | 385 | 10,496 | 170 |
| 3 | 1997 | 1,590 | 282 | 9,977 | 3,869 | 667 | 20,473 | 177 |
| 4 | 1998 | 1,813 | 310 | 11,420 | 5,682 | 977 | 31,892 | 171 |
| 5 | 1999 | 1,589 | 313 | 9,920 | 7,271 | 1,290 | 41,813 | 197 |
| 6 | 2000 | 1,529 | 289 | 10,868 | 8,801 | 1,579 | 52,681 | 189 |
| 7 | 2001 | 1,192 | 181 | 12,216 | 9,993 | 1,760 | 64,897 | 152 |
| 8 | 2002 | 797 | 197 | 11,324 | 10,790 | 1,957 | 76,220 | 247 |
| 9 | 2003 | 770 | 154 | 10,938 | 11,560 | 2,111 | 87,158 | 200 |
| 10 | 2004 | 655 | 131 | 9,297 | 12,215 | 2,242 | 96,456 | 200 |
| 11 | 2005 | 556 | 111 | 7,903 | 12,771 | 2,353 | 104,358 | 200 |
| 12 | 2006 | 473 | 95 | 6,717 | 13,244 | 2,448 | 111,076 | 200 |
| 13 | 2007 | 402 | 80 | 5,710 | 13,646 | 2,528 | 116,785 | 200 |
| 14 | 2008 | 342 | 68 | 4,853 | 13,988 | 2,596 | 121,638 | 200 |
| 15 | 2009 | 290 | 58 | 4,125 | 14,278 | 2,654 | 125,764 | 200 |
| 16 | 2010 | 247 | 49 | 3,506 | 14,525 | 2,704 | 129,270 | 200 |
| 17 | 2011 | 210 | 42 | 2,980 | 14,735 | 2,746 | 132,251 | 200 |
| 18 | 2012 | 178 | 36 | 2,533 | 14,913 | 2,782 | 134,784 | 200 |
| 19 | 2013 | 152 | 30 | 2,153 | 15,065 | 2,812 | 136,937 | 200 |
| 20 | 2014 | 129 | 26 | 1,830 | 15,194 | 2,838 | 138,768 | 200 |
| 21 | 2015 | 110 | 22 | 1,556 | 15,303 | 2,860 | 140,324 | 200 |
| 22 | 2016 | 93 | 19 | 1,322 | 15,396 | 2,878 | 141,646 | 200 |
| 23 | 2017 | 79 | 16 | 1,124 | 15,475 | 2,894 | 142,770 | 200 |

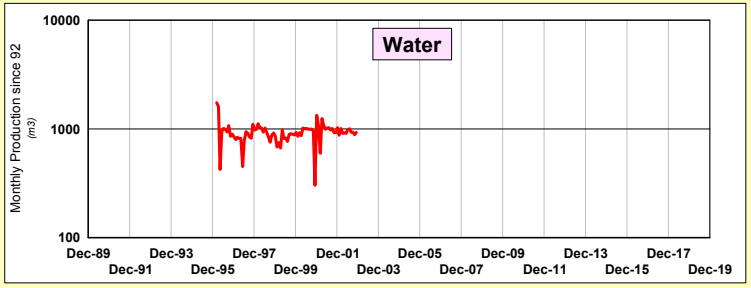
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 200 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 70 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T008022**

Well Name: **Telesis et al 34164, Romney 6 - 8 - II**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 337 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0124 | m3 per m3 | 0.0678 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 0.2012 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **137** | m3/yr | **0** | e3m3/yr | **2** | m3/yr |
| Cumm to Date: | **5,166** | m3 | **1,741** | e3m3 | **350** | m3 |
| Remaining Recoverable: | **1,002** | m3 | **0** | e3m3 | **12** | m3 |
| Total Recovery: | **6,168** | m3 | **1,741** | e3m3 | **363** | m3 |
| Peak Rate: | 3.4 | m3/d | 0.9 | e3m3/d | based on annual | |
| Peak Rate: | 9.9 | m3/d | 2.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.4 | m3/d | 0.8 | e3m3/d | per day based on annual | |
| Current Rate: | 0.4 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 5% | | annually | | | |

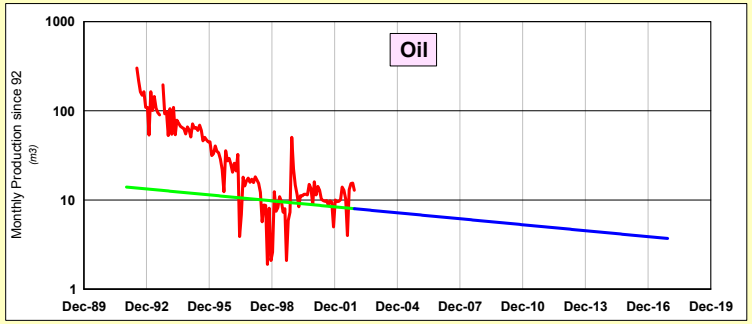
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1992 | 1,106 | 322 | 45 | 1,106 | 322 | 45 | 291 |
| 2 | 1993 | 1,252 | 297 | 100 | 2,358 | 618 | 145 | 237 |
| 3 | 1994 | 844 | 330 | 71 | 3,202 | 948 | 216 | 391 |
| 4 | 1995 | 691 | 332 | 18 | 3,893 | 1,280 | 234 | 481 |
| 5 | 1996 | 375 | 163 | 15 | 4,268 | 1,443 | 249 | 434 |
| 6 | 1997 | 219 | 112 | 43 | 4,487 | 1,555 | 292 | 514 |
| 7 | 1998 | 131 | 108 | 14 | 4,617 | 1,663 | 306 | 825 |
| 8 | 1999 | 133 | 78 | 22 | 4,750 | 1,741 | 328 | 590 |
| 9 | 2000 | 151 | 0 | 13 | 4,901 | 1,741 | 341 | 0 |
| 10 | 2001 | 127 | 0 | 8 | 5,028 | 1,741 | 349 | 0 |
| 11 | 2002 | 137 | 0 | 2 | 5,166 | 1,741 | 350 | 0 |
| 12 | 2003 | 93 | 0 | 1 | 5,259 | 1,741 | 351 | 0 |
| 13 | 2004 | 89 | 0 | 1 | 5,348 | 1,741 | 353 | 0 |
| 14 | 2005 | 84 | 0 | 1 | 5,432 | 1,741 | 354 | 0 |
| 15 | 2006 | 80 | 0 | 1 | 5,512 | 1,741 | 355 | 0 |
| 16 | 2007 | 76 | 0 | 1 | 5,588 | 1,741 | 356 | 0 |
| 17 | 2008 | 72 | 0 | 1 | 5,661 | 1,741 | 356 | 0 |
| 18 | 2009 | 69 | 0 | 1 | 5,729 | 1,741 | 357 | 0 |
| 19 | 2010 | 65 | 0 | 1 | 5,794 | 1,741 | 358 | 0 |
| 20 | 2011 | 62 | 0 | 1 | 5,856 | 1,741 | 359 | 0 |
| 21 | 2012 | 59 | 0 | 1 | 5,915 | 1,741 | 360 | 0 |
| 22 | 2013 | 56 | 0 | 1 | 5,971 | 1,741 | 360 | 0 |
| 23 | 2014 | 53 | 0 | 1 | 6,024 | 1,741 | 361 | 0 |
| 24 | 2015 | 50 | 0 | 1 | 6,075 | 1,741 | 362 | 0 |
| 25 | 2016 | 48 | 0 | 1 | 6,123 | 1,741 | 362 | 0 |
| 26 | 2017 | 46 | 0 | 1 | 6,168 | 1,741 | 363 | 0 |

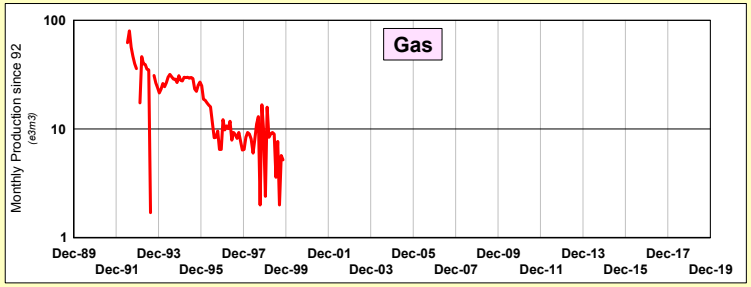
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

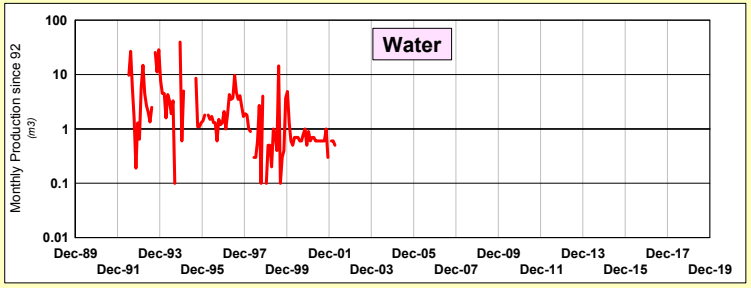
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 8 | m3/mo. |
| Decline Rate: | 5% | per year | Decline Rate: | 5% | per year |
| Decline Factor: | **0.0043** | per month | Decline Factor: | **0.0043** | per month |



Well No.: **T007945**

Well Name: **Judo #10, Romney 2 - 215 - II**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 9 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 1.4598 | m3 per m3 | 0.4703 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 50.3794 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,363** | m3/yr | **0** | e3m3/yr | **1,990** | m3/yr |
| Cumm to Date: | **26,275** | m3 | **245** | e3m3 | **12,358** | m3 |
| Remaining Recoverable: | **3,732** | m3 | **0** | e3m3 | **5,448** | m3 |
| Total Recovery: | **30,007** | m3 | **245** | e3m3 | **17,805** | m3 |
| Peak Rate: | 15.9 | m3/d | 0.3 | e3m3/d | based on annual | |
| Peak Rate: | 25.0 | m3/d | 0.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 6.2 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 3.7 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 22% | | annually | | | |

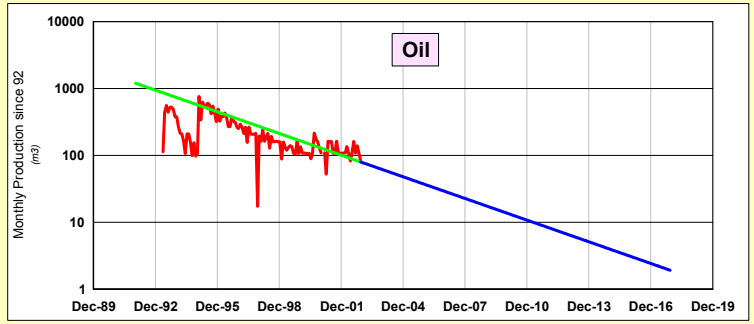
## Monthly Production vs Month + Forecast
*(since 1992)*

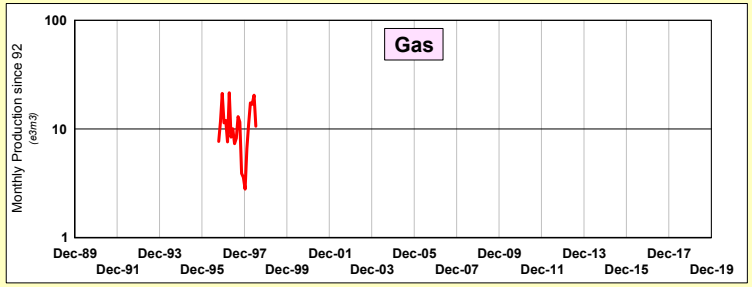
Basis---> **Oil**

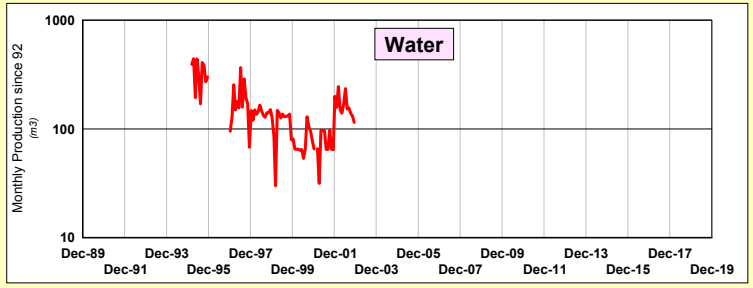
| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 80 | m3/mo. |
| Decline Rate: | 22% | per year | Decline Rate: | 22% | per year |
| Decline Factor: | **0.0205** | per month | Decline Factor: | **0.0205** | per month |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 3,478 | 0 | 0 | 3,478 | 0 | 0 | 0 |
| 2 | 1994 | 2,264 | 0 | 0 | 5,742 | 0 | 0 | 0 |
| 3 | 1995 | 5,823 | 0 | 3,313 | 11,565 | 0 | 3,313 | 0 |
| 4 | 1996 | 4,202 | 41 | 0 | 15,766 | 41 | 3,313 | 10 |
| 5 | 1997 | 2,564 | 119 | 2,207 | 18,330 | 159 | 5,520 | 46 |
| 6 | 1998 | 2,128 | 86 | 1,703 | 20,458 | 245 | 7,223 | 40 |
| 7 | 1999 | 1,551 | 0 | 1,402 | 22,008 | 245 | 8,625 | 0 |
| 8 | 2000 | 1,553 | 0 | 932 | 23,561 | 245 | 9,557 | 0 |
| 9 | 2001 | 1,351 | 0 | 810 | 24,912 | 245 | 10,367 | 0 |
| 10 | 2002 | 1,363 | 0 | 1,990 | 26,275 | 245 | 12,358 | 0 |
| 11 | 2003 | 841 | 0 | 1,228 | 27,116 | 245 | 13,586 | 0 |
| 12 | 2004 | 656 | 0 | 958 | 27,773 | 245 | 14,544 | 0 |
| 13 | 2005 | 512 | 0 | 747 | 28,284 | 245 | 15,291 | 0 |
| 14 | 2006 | 399 | 0 | 583 | 28,684 | 245 | 15,873 | 0 |
| 15 | 2007 | 311 | 0 | 455 | 28,995 | 245 | 16,328 | 0 |
| 16 | 2008 | 243 | 0 | 355 | 29,238 | 245 | 16,683 | 0 |
| 17 | 2009 | 189 | 0 | 277 | 29,427 | 245 | 16,959 | 0 |
| 18 | 2010 | 148 | 0 | 216 | 29,575 | 245 | 17,175 | 0 |
| 19 | 2011 | 115 | 0 | 168 | 29,690 | 245 | 17,343 | 0 |
| 20 | 2012 | 90 | 0 | 131 | 29,780 | 245 | 17,474 | 0 |
| 21 | 2013 | 70 | 0 | 102 | 29,850 | 245 | 17,577 | 0 |
| 22 | 2014 | 55 | 0 | 80 | 29,905 | 245 | 17,657 | 0 |
| 23 | 2015 | 43 | 0 | 62 | 29,948 | 245 | 17,719 | 0 |
| 24 | 2016 | 33 | 0 | 49 | 29,981 | 245 | 17,768 | 0 |
| 25 | 2017 | 26 | 0 | 38 | 30,007 | 245 | 17,805 | 0 |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*



Well No.: **T007791**

Well Name: **Telesis et al 34162, Romney 8 - 8 - II**

Status: **Active Well**

MNR Pool: **Romney 3-8-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

Well:

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 145 | m3 per m3 | 205 | last year |
| 2002 Water/Oil ratio: | 2.7154 | m3 per m3 | 1.6635 | last 10 years |
| 2002 Water/ Gas Ratio: | 13.2352 | m3 per e3m3 | 11.4640 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **775** | m3/yr | **159** | e3m3/yr | **2,104** | m3/yr |
| Cumm to Date: | **23,394** | m3 | **3,209** | e3m3 | **36,789** | m3 |
| Remaining Recoverable: | **4,016** | m3 | **803** | e3m3 | **10,905** | m3 |
| Total Recovery: | **27,410** | m3 | **4,012** | e3m3 | **47,694** | m3 |
| Peak Rate: | 9.6 | m3/d | 1.2 | e3m3/d | based on annual | |
| Peak Rate: | 12.3 | m3/d | 2.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 9.6 | m3/d | 1.1 | e3m3/d | per day based on annual | |
| Current Rate: | 2.1 | m3/d | 0.4 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1991 | 1,279 | 0 | 0 | 1,279 | 0 | 0 | 0 |
| 2 | 1992 | 3,497 | 403 | 3,488 | 4,776 | 403 | 3,488 | 115 |
| 3 | 1993 | 3,237 | 251 | 3,791 | 8,013 | 654 | 7,279 | 78 |
| 4 | 1994 | 3,359 | 446 | 5,141 | 11,372 | 1,100 | 12,421 | 133 |
| 5 | 1995 | 2,907 | 362 | 4,957 | 14,278 | 1,462 | 17,377 | 125 |
| 6 | 1996 | 2,310 | 377 | 4,301 | 16,588 | 1,839 | 21,679 | 163 |
| 7 | 1997 | 1,718 | 348 | 3,472 | 18,306 | 2,187 | 25,150 | 203 |
| 8 | 1998 | 1,262 | 279 | 2,722 | 19,568 | 2,466 | 27,872 | 221 |
| 9 | 1999 | 1,111 | 251 | 2,274 | 20,679 | 2,717 | 30,146 | 226 |
| 10 | 2000 | 979 | 156 | 2,239 | 21,658 | 2,873 | 32,386 | 160 |
| 11 | 2001 | 961 | 177 | 2,299 | 22,619 | 3,050 | 34,685 | 184 |
| 12 | 2002 | 775 | 159 | 2,104 | 23,394 | 3,209 | 36,789 | 205 |
| 13 | 2003 | 660 | 132 | 1,792 | 24,054 | 3,341 | 38,581 | 200 |
| 14 | 2004 | 561 | 112 | 1,523 | 24,615 | 3,453 | 40,105 | 200 |
| 15 | 2005 | 477 | 95 | 1,295 | 25,092 | 3,549 | 41,400 | 200 |
| 16 | 2006 | 405 | 81 | 1,101 | 25,498 | 3,630 | 42,500 | 200 |
| 17 | 2007 | 345 | 69 | 936 | 25,842 | 3,699 | 43,436 | 200 |
| 18 | 2008 | 293 | 59 | 795 | 26,135 | 3,757 | 44,231 | 200 |
| 19 | 2009 | 249 | 50 | 676 | 26,384 | 3,807 | 44,907 | 200 |
| 20 | 2010 | 212 | 42 | 575 | 26,596 | 3,849 | 45,482 | 200 |
| 21 | 2011 | 180 | 36 | 488 | 26,775 | 3,885 | 45,970 | 200 |
| 22 | 2012 | 153 | 31 | 415 | 26,928 | 3,916 | 46,385 | 200 |
| 23 | 2013 | 130 | 26 | 353 | 27,058 | 3,942 | 46,738 | 200 |
| 24 | 2014 | 110 | 22 | 300 | 27,169 | 3,964 | 47,038 | 200 |
| 25 | 2015 | 94 | 19 | 255 | 27,263 | 3,983 | 47,293 | 200 |
| 26 | 2016 | 80 | 16 | 217 | 27,342 | 3,999 | 47,510 | 200 |
| 27 | 2017 | 68 | 14 | 184 | 27,410 | 4,012 | 47,694 | 200 |

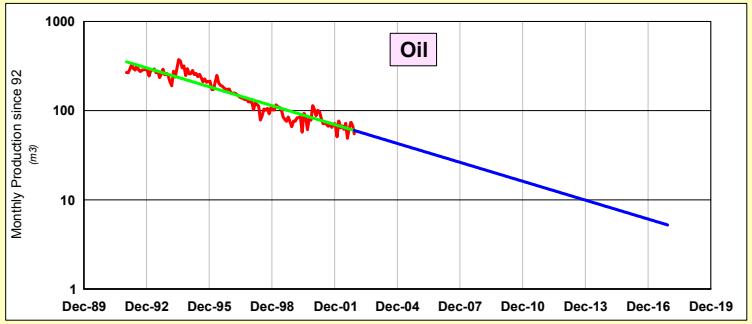
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

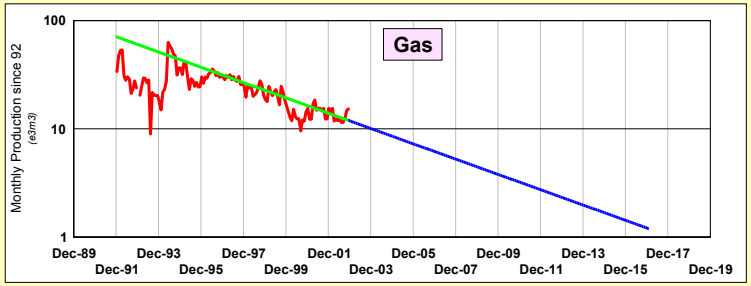
Revised May 27th 2004

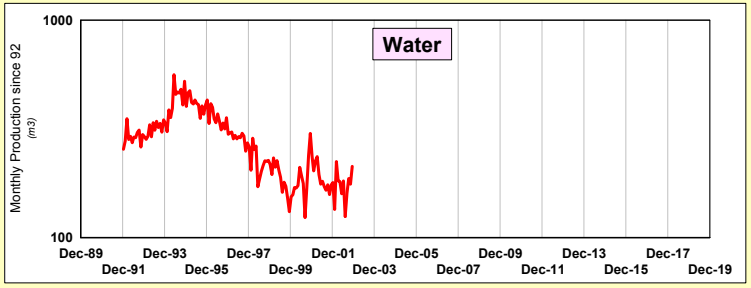
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 200 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 60 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



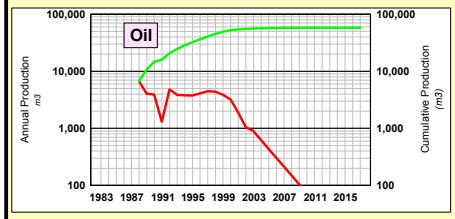



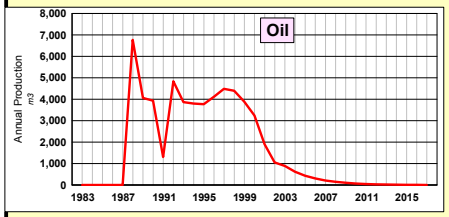



## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Romney 7-10-II**
TGI Pool: **Goldsmith-Lakeshore Pool**
TGI Field: **Goldsmith-Lakeshore Field**
No of Wells: **1**

## Monthly Production vs Month
*(1992 to 2002)*



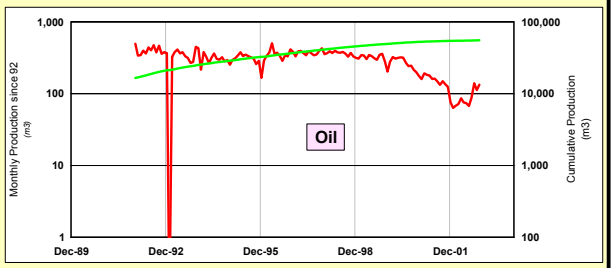

**30%** Pool Decline

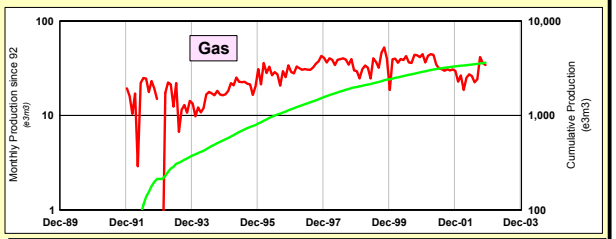
| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

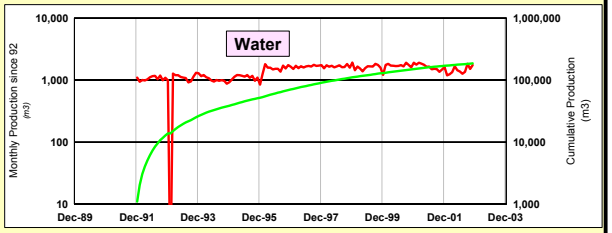
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 1,058 | m3/yr | 335 | e3m3/yr | 17,638 | m3/yr |
| Cumm to Date: | 55,477 | m3 | 3,627 | e3m3 | 186,528 | m3 |
| Remaining Recoverable: | 2,969 | m3 | 935 | e3m3 | 49,479 | m3 |
| Total recovery: | 58,446 | m3 | 4,563 | e3m3 | 236,007 | m3 |

Current Rate: 3 m3/d 1 e3m3/d
Current decline rate: 30% annually

| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1988 | 6,770 | 0 | 0 | 6,770 | 0 | 0 | |
| 1 | 2 | 1989 | 4,065 | 0 | 0 | 10,835 | 0 | 0 | |
| 1 | 3 | 1990 | 3,937 | 0 | 0 | 14,772 | 0 | 0 | |
| 1 | 4 | 1991 | 1,307 | 0 | 0 | 16,078 | 0 | 0 | |
| 1 | 5 | 1992 | 4,842 | 213 | 12,802 | 20,920 | 213 | 12,802 | |
| 1 | 6 | 1993 | 3,873 | 152 | 12,287 | 24,793 | 365 | 25,089 | 39 |
| 1 | 7 | 1994 | 3,805 | 178 | 12,612 | 28,597 | 542 | 37,701 | 47 |
| 1 | 8 | 1995 | 3,775 | 251 | 13,346 | 32,372 | 794 | 51,046 | 67 |
| 1 | 9 | 1996 | 4,118 | 342 | 18,002 | 36,490 | 1,136 | 69,049 | 83 |
| 1 | 10 | 1997 | 4,486 | 392 | 19,897 | 40,976 | 1,528 | 88,945 | 87 |
| 1 | 11 | 1998 | 4,398 | 453 | 20,067 | 45,373 | 1,981 | 109,012 | 103 |
| 1 | 12 | 1999 | 3,895 | 424 | 19,694 | 49,268 | 2,404 | 128,706 | 109 |
| 1 | 13 | 2000 | 3,244 | 457 | 20,292 | 52,512 | 2,861 | 148,998 | 141 |
| 1 | 14 | 2001 | 1,907 | 431 | 19,893 | 54,419 | 3,292 | 168,890 | 226 |
| 1 | 15 | 2002 | 1,058 | 335 | 17,638 | 55,477 | 3,627 | 186,528 | 316 |
| | 16 | 2003 | 895 | 282 | 14,914 | 56,372 | 3,909 | 201,443 | 315 |
| | 17 | 2004 | 626 | 197 | 10,440 | 56,999 | 4,107 | 211,883 | 315 |
| | 18 | 2005 | 439 | 138 | 7,308 | 57,437 | 4,245 | 219,191 | 315 |
| | 19 | 2006 | 307 | 97 | 5,116 | 57,744 | 4,341 | 224,306 | 315 |
| | 20 | 2007 | 215 | 68 | 3,581 | 57,959 | 4,409 | 227,887 | 315 |
| | 21 | 2008 | 150 | 47 | 2,507 | 58,109 | 4,457 | 230,394 | 315 |
| | 22 | 2009 | 105 | 33 | 1,755 | 58,215 | 4,490 | 232,149 | 315 |
| | 23 | 2010 | 74 | 23 | 1,228 | 58,288 | 4,513 | 233,377 | 315 |
| | 24 | 2011 | 52 | 16 | 860 | 58,340 | 4,529 | 234,237 | 315 |
| | 25 | 2012 | 36 | 11 | 602 | 58,376 | 4,541 | 234,839 | 315 |
| | 26 | 2013 | 25 | 8 | 421 | 58,401 | 4,548 | 235,260 | 315 |
| | 27 | 2014 | 18 | 6 | 295 | 58,419 | 4,554 | 235,555 | 315 |
| | 28 | 2015 | 12 | 4 | 206 | 58,432 | 4,558 | 235,761 | 315 |
| | 29 | 2016 | 9 | 3 | 145 | 58,440 | 4,561 | 235,906 | 315 |
| | 30 | 2017 | 6 | 2 | 101 | 58,446 | 4,563 | 236,007 | 315 |
| | To date: | | 55,477 | 3,627 | 186,528 | | | | 0.0921 |



Well No.: **T007203**

Well Name: **Cons et al 34340, Romney 7 - 10 - II**

Status: **Active Well**

MNR Pool: **Romney 7-10-II**

TGI Pool: **Goldsmith-Lakeshore Pool**

TGI Field: **Goldsmith-Lakeshore Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 92 | m3 per m3 | 316 | last year | |
| 2002 Water/Oil ratio: | 16.6650 | m3 per m3 | 4.7344 | last 10 years | |
| 2002 Water/ Gas Ratio: | 52.6671 | m3 per e3m3 | 51.4224 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,058** | m3/yr | **335** | e3m3/yr | **17,638** | m3/yr |
| Cumm to Date: | **55,477** | m3 | **3,627** | e3m3 | **186,528** | m3 |
| Remaining Recoverable: | **2,969** | m3 | **935** | e3m3 | **49,479** | m3 |
| Total Recovery: | **58,446** | m3 | **4,563** | e3m3 | **236,007** | m3 |
| Peak Rate: | 18.5 | m3/d | 1.3 | e3m3/d | based on annual | |
| Peak Rate: | 16.6 | m3/d | 1.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 11.1 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 2.9 | m3/d | 0.9 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

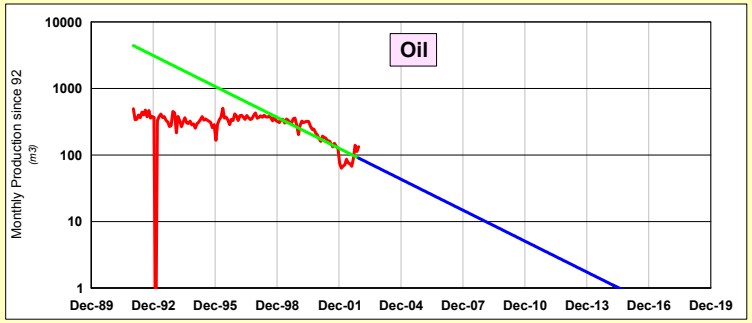
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 6,770 | 0 | 0 | 6,770 | 0 | 0 | 0 |
| 2 | 1989 | 4,065 | 0 | 0 | 10,835 | 0 | 0 | 0 |
| 3 | 1990 | 3,937 | 0 | 0 | 14,772 | 0 | 0 | 0 |
| 4 | 1991 | 1,307 | 0 | 0 | 16,078 | 0 | 0 | 0 |
| 5 | 1992 | 4,842 | 213 | 12,802 | 20,920 | 213 | 12,802 | 44 |
| 6 | 1993 | 3,873 | 152 | 12,287 | 24,793 | 365 | 25,089 | 39 |
| 7 | 1994 | 3,805 | 178 | 12,612 | 28,597 | 542 | 37,701 | 47 |
| 8 | 1995 | 3,775 | 251 | 13,346 | 32,372 | 794 | 51,046 | 67 |
| 9 | 1996 | 4,118 | 342 | 18,002 | 36,490 | 1,136 | 69,049 | 83 |
| 10 | 1997 | 4,486 | 392 | 19,897 | 40,976 | 1,528 | 88,945 | 87 |
| 11 | 1998 | 4,398 | 453 | 20,067 | 45,373 | 1,981 | 109,012 | 103 |
| 12 | 1999 | 3,895 | 424 | 19,694 | 49,268 | 2,404 | 128,706 | 109 |
| 13 | 2000 | 3,244 | 457 | 20,292 | 52,512 | 2,861 | 148,998 | 141 |
| 14 | 2001 | 1,907 | 431 | 19,893 | 54,419 | 3,292 | 168,890 | 226 |
| 15 | 2002 | 1,058 | 335 | 17,638 | 55,477 | 3,627 | 186,528 | 316 |
| 16 | 2003 | 895 | 282 | 14,914 | 56,372 | 3,909 | 201,443 | 315 |
| 17 | 2004 | 626 | 197 | 10,440 | 56,999 | 4,107 | 211,883 | 315 |
| 18 | 2005 | 439 | 138 | 7,308 | 57,437 | 4,245 | 219,191 | 315 |
| 19 | 2006 | 307 | 97 | 5,116 | 57,744 | 4,341 | 224,306 | 315 |
| 20 | 2007 | 215 | 68 | 3,581 | 57,959 | 4,409 | 227,887 | 315 |
| 21 | 2008 | 150 | 47 | 2,507 | 58,109 | 4,457 | 230,394 | 315 |
| 22 | 2009 | 105 | 33 | 1,755 | 58,215 | 4,490 | 232,149 | 315 |
| 23 | 2010 | 74 | 23 | 1,228 | 58,288 | 4,513 | 233,377 | 315 |
| 24 | 2011 | 52 | 16 | 860 | 58,340 | 4,529 | 234,237 | 315 |
| 25 | 2012 | 36 | 11 | 602 | 58,376 | 4,541 | 234,839 | 315 |
| 26 | 2013 | 25 | 8 | 421 | 58,401 | 4,548 | 235,260 | 315 |
| 27 | 2014 | 18 | 6 | 295 | 58,419 | 4,554 | 235,555 | 315 |
| 28 | 2015 | 12 | 4 | 206 | 58,432 | 4,558 | 235,761 | 315 |
| 29 | 2016 | 9 | 3 | 145 | 58,440 | 4,561 | 235,906 | 315 |
| 30 | 2017 | 6 | 2 | 101 | 58,446 | 4,563 | 236,007 | 315 |

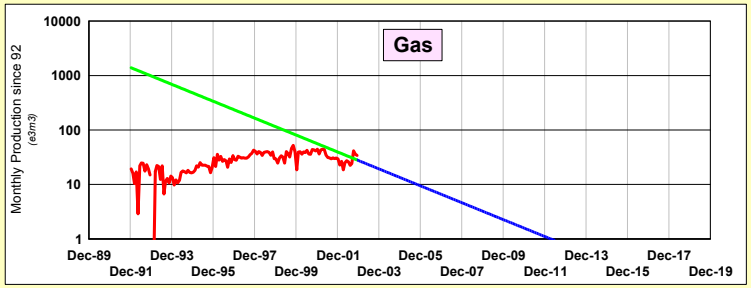
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

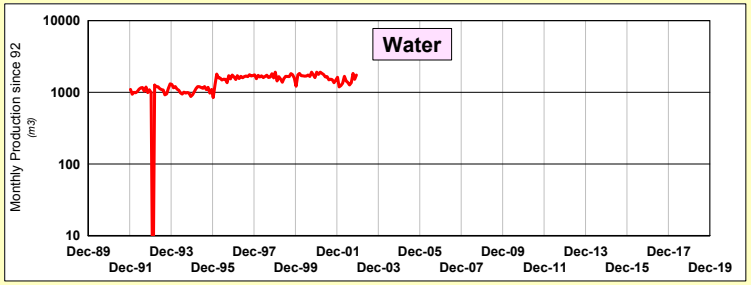
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 315 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 90 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | **0.0293** | per month | Decline Factor: | **0.0293** | per month |



Well No.: **T007792**
Well Name: **Ram BP Telesis #19 (Dev #1)**
Status: **Active**
MNR Pool: **Gosfield South 1-4-258-STR**

Well: **T007792**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 1.9891 | m3 per m3 | 1.4718 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **165** | m3/yr | **0** | e3m3/yr | **329** | m3/yr |
| Cumm to Date: | **3,578** | m3 | **0** | e3m3 | **5,266** | m3 |
| Remaining Recoverable: | **1,036** | m3 | **0** | e3m3 | **2,060** | m3 |
| Total Recovery: | **4,614** | m3 | **0** | e3m3 | **7,326** | m3 |
| Peak Rate: | 2.3 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 3.1 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.6 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.5 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

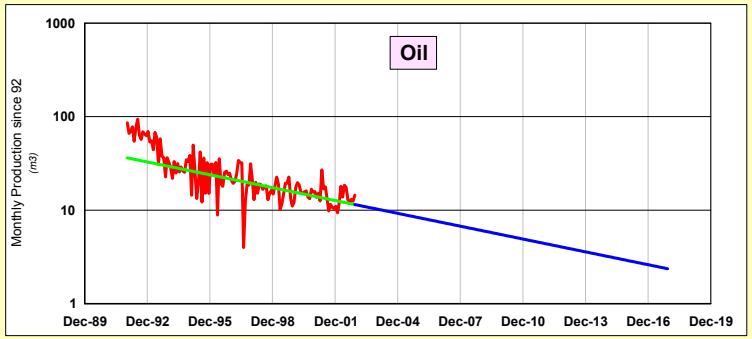
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1992 | 843 | 0 | 916 | 843 | 0 | 916 | 0 |
| 2 | 1993 | 573 | 0 | 689 | 1,417 | 0 | 1,605 | 0 |
| 3 | 1994 | 347 | 0 | 531 | 1,763 | 0 | 2,136 | 0 |
| 4 | 1995 | 315 | 0 | 555 | 2,078 | 0 | 2,691 | 0 |
| 5 | 1996 | 300 | 0 | 525 | 2,378 | 0 | 3,215 | 0 |
| 6 | 1997 | 269 | 0 | 335 | 2,647 | 0 | 3,550 | 0 |
| 7 | 1998 | 204 | 0 | 371 | 2,851 | 0 | 3,921 | 0 |
| 8 | 1999 | 197 | 0 | 345 | 3,049 | 0 | 4,266 | 0 |
| 9 | 2000 | 189 | 0 | 341 | 3,238 | 0 | 4,606 | 0 |
| 10 | 2001 | 175 | 0 | 331 | 3,413 | 0 | 4,938 | 0 |
| 11 | 2002 | 165 | 0 | 329 | 3,578 | 0 | 5,266 | 0 |
| 12 | 2003 | 130 | 0 | 259 | 3,709 | 0 | 5,526 | 0 |
| 13 | 2004 | 117 | 0 | 233 | 3,826 | 0 | 5,759 | 0 |
| 14 | 2005 | 106 | 0 | 210 | 3,932 | 0 | 5,969 | 0 |
| 15 | 2006 | 95 | 0 | 189 | 4,027 | 0 | 6,158 | 0 |
| 16 | 2007 | 86 | 0 | 170 | 4,112 | 0 | 6,329 | 0 |
| 17 | 2008 | 77 | 0 | 153 | 4,189 | 0 | 6,482 | 0 |
| 18 | 2009 | 69 | 0 | 138 | 4,258 | 0 | 6,620 | 0 |
| 19 | 2010 | 62 | 0 | 124 | 4,321 | 0 | 6,744 | 0 |
| 20 | 2011 | 56 | 0 | 112 | 4,377 | 0 | 6,855 | 0 |
| 21 | 2012 | 51 | 0 | 100 | 4,428 | 0 | 6,956 | 0 |
| 22 | 2013 | 45 | 0 | 90 | 4,473 | 0 | 7,046 | 0 |
| 23 | 2014 | 41 | 0 | 81 | 4,514 | 0 | 7,128 | 0 |
| 24 | 2015 | 37 | 0 | 73 | 4,551 | 0 | 7,201 | 0 |
| 25 | 2016 | 33 | 0 | 66 | 4,584 | 0 | 7,267 | 0 |
| 26 | 2017 | 30 | 0 | 59 | 4,614 | 0 | 7,326 | 0 |

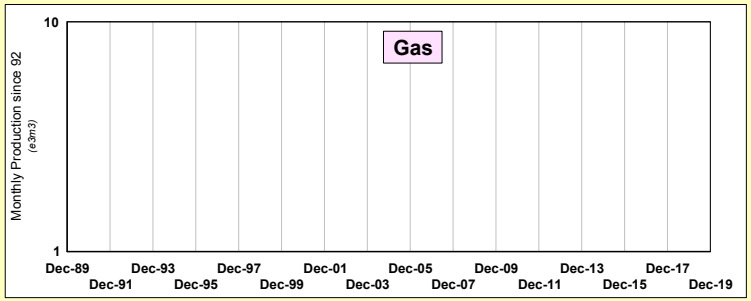
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

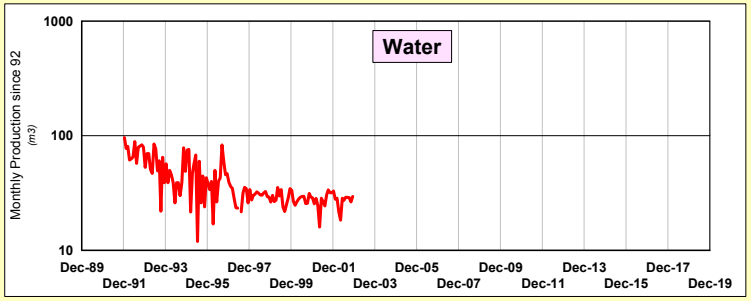
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 50 | e3m3 per month | Start: | 11.5 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T008455**

Well Name: **Clearwood, Gosfield South 3-K-III**

Status: **Active**

MNR Pool: **Gosfield South 3-K-III**

Well: **T008455**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | 0 | last year |
| 2002 Water/Oil ratio: | 0.4619 | m3 per m3 | 0.4240 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **297** | m3/yr | **0** | e3m3/yr | **137** | m3/yr |
| Cumm to Date: | **2,690** | m3 | **0** | e3m3 | **1,141** | m3 |
| Remaining Recoverable: | **1,028** | m3 | **0** | e3m3 | **475** | m3 |
| Total Recovery: | **3,718** | m3 | **0** | e3m3 | **1,616** | m3 |
| Peak Rate: | 1.8 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 3.9 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.7 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.8 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

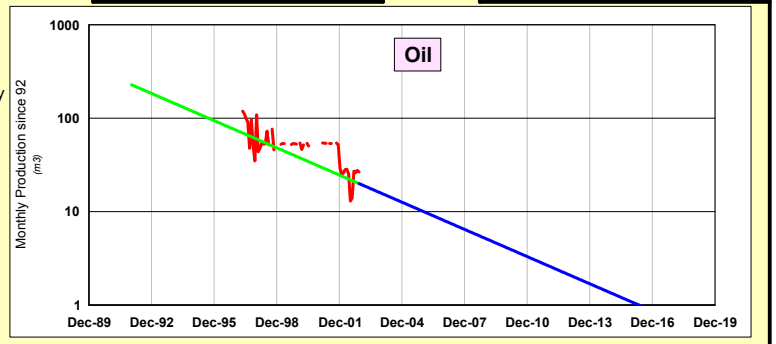
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1997 | 650 | 0 | 642 | 650 | 0 | 642 | 0 |
| 2 | 1998 | 608 | 0 | 161 | 1,258 | 0 | 803 | 0 |
| 3 | 1999 | 447 | 0 | 22 | 1,706 | 0 | 825 | 0 |
| 4 | 2000 | 311 | 0 | 81 | 2,017 | 0 | 906 | 0 |
| 5 | 2001 | 376 | 0 | 98 | 2,393 | 0 | 1,003 | 0 |
| 6 | 2002 | 297 | 0 | 137 | 2,690 | 0 | 1,141 | 0 |
| 7 | 2003 | 213 | 0 | 98 | 2,903 | 0 | 1,239 | 0 |
| 8 | 2004 | 170 | 0 | 79 | 3,074 | 0 | 1,318 | 0 |
| 9 | 2005 | 136 | 0 | 63 | 3,210 | 0 | 1,381 | 0 |
| 10 | 2006 | 109 | 0 | 50 | 3,319 | 0 | 1,431 | 0 |
| 11 | 2007 | 87 | 0 | 40 | 3,407 | 0 | 1,472 | 0 |
| 12 | 2008 | 70 | 0 | 32 | 3,476 | 0 | 1,504 | 0 |
| 13 | 2009 | 56 | 0 | 26 | 3,532 | 0 | 1,530 | 0 |
| 14 | 2010 | 45 | 0 | 21 | 3,577 | 0 | 1,550 | 0 |
| 15 | 2011 | 36 | 0 | 17 | 3,613 | 0 | 1,567 | 0 |
| 16 | 2012 | 29 | 0 | 13 | 3,641 | 0 | 1,580 | 0 |
| 17 | 2013 | 23 | 0 | 11 | 3,664 | 0 | 1,591 | 0 |
| 18 | 2014 | 18 | 0 | 8 | 3,682 | 0 | 1,599 | 0 |
| 19 | 2015 | 15 | 0 | 7 | 3,697 | 0 | 1,606 | 0 |
| 20 | 2016 | 12 | 0 | 5 | 3,709 | 0 | 1,611 | 0 |
| 21 | 2017 | 9 | 0 | 4 | 3,718 | 0 | 1,616 | 0 |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

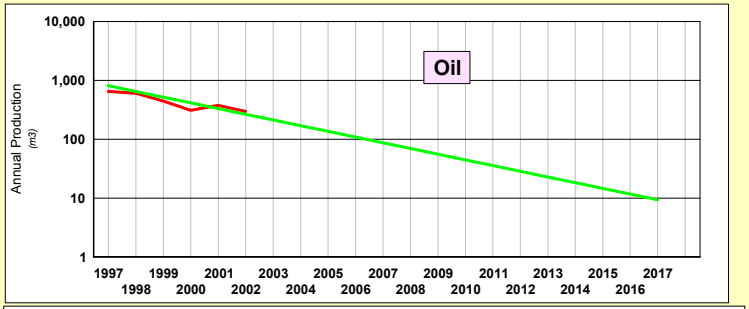
## Monthly Production vs Month + Forecast
*(since 1992)*

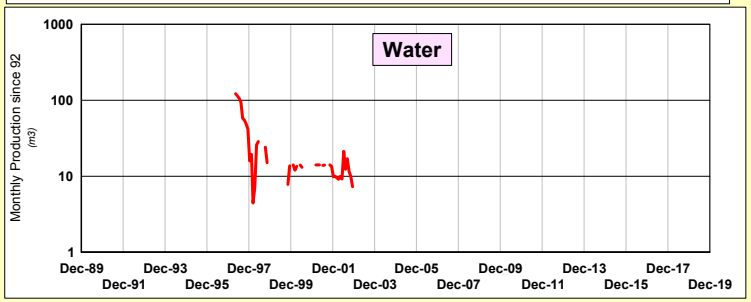
**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 0 | e3m3 per month | Start: | 20 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |




Production reported on alternate months. Every second month is zero.
Shipping every 2 months.



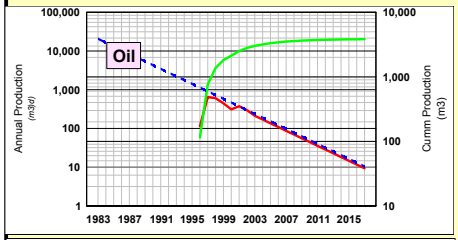



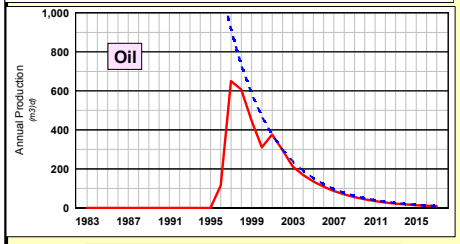
## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Gosfield South 3-K-III**
TGI Pool: **Gosfield South 3-K-III**
TGI Field:
No of Wells: **2**

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 297 | m3/yr | 0 | e3m3/yr | 137 | m3/yr |
| Cumm to Date: | 2,805 | m3 | 0 | e3m3 | 1,141 | m3 |
| Remaining Recoverable: | 1,028 | m3 | 0 | e3m3 | 475 | m3 |
| Total Recovery: | 3,833 | m3 | 0 | e3m3 | 1,616 | m3 |

Current Rate: 1 m3/d 0 e3m3/d
Current decline rate: 20% annually



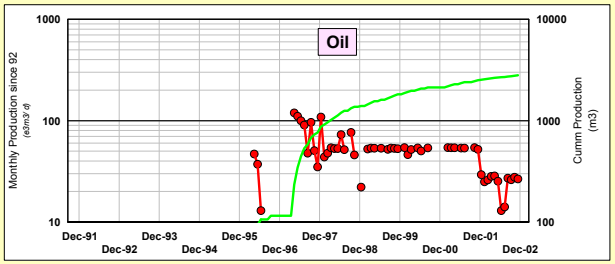



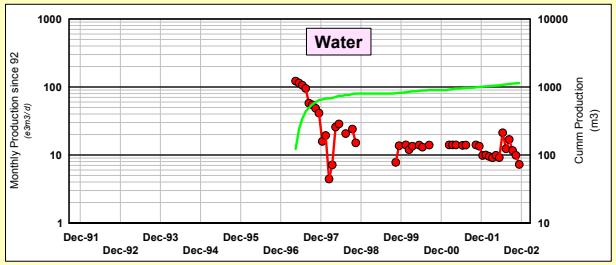

**20%** Pool Decline

| Wells on Production | Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1 | 1996 | 115 | 0 | 0 | 115 | 0 | 0 | 0 |
| 1 | 2 | 1997 | 650 | 0 | 642 | 766 | 0 | 642 | 0 |
| 1 | 3 | 1998 | 608 | 0 | 161 | 1,374 | 0 | 803 | 0 |
| 1 | 4 | 1999 | 447 | 0 | 22 | 1,821 | 0 | 825 | 0 |
| 1 | 5 | 2000 | 311 | 0 | 81 | 2,132 | 0 | 906 | 0 |
| 1 | 6 | 2001 | 376 | 0 | 98 | 2,508 | 0 | 1,003 | 0 |
| 1 | 7 | 2002 | 297 | 0 | 137 | 2,805 | 0 | 1,141 | 0 |
| | 8 | 2003 | 213 | 0 | 98 | 3,018 | 0 | 1,239 | 0 |
| | 9 | 2004 | 170 | 0 | 79 | 3,189 | 0 | 1,318 | 0 |
| | 10 | 2005 | 136 | 0 | 63 | 3,325 | 0 | 1,381 | 0 |
| | 11 | 2006 | 109 | 0 | 50 | 3,434 | 0 | 1,431 | 0 |
| | 12 | 2007 | 87 | 0 | 40 | 3,522 | 0 | 1,472 | 0 |
| | 13 | 2008 | 70 | 0 | 32 | 3,592 | 0 | 1,504 | 0 |
| | 14 | 2009 | 56 | 0 | 26 | 3,647 | 0 | 1,530 | 0 |
| | 15 | 2010 | 45 | 0 | 21 | 3,692 | 0 | 1,550 | 0 |
| | 16 | 2011 | 36 | 0 | 17 | 3,728 | 0 | 1,567 | 0 |
| | 17 | 2012 | 29 | 0 | 13 | 3,757 | 0 | 1,580 | 0 |
| | 18 | 2013 | 23 | 0 | 11 | 3,779 | 0 | 1,591 | 0 |
| | 19 | 2014 | 18 | 0 | 8 | 3,798 | 0 | 1,599 | 0 |
| | 20 | 2015 | 15 | 0 | 7 | 3,812 | 0 | 1,606 | 0 |
| | 21 | 2016 | 12 | 0 | 5 | 3,824 | 0 | 1,611 | 0 |
| | 22 | 2017 | 9 | 0 | 4 | 3,833 | 0 | 1,616 | 0 |
| | | To date: | 2,805 | 0 | 1,141 | | | | 0.0000 |

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

## Monthly Production vs Month
*(1992 to 2002)*



Well No.: **T008536**

Well Name: **Cons/Paladin 34312, Gosfield South 1-I-III**

Status:

MNR Pool: **Gosfield South 1-1-III**

Well: **T008536**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0000 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **115** | m3 | **0** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **115** | m3 | **0** | e3m3 | **0** | m3 |
| Peak Rate: | 0.3 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 1.5 | m3/d | ERR | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1996 | 115 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 1997 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 1998 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 1999 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2000 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2001 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2002 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2003 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2004 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2005 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2006 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2007 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2008 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2009 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2010 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2011 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2012 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2013 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2014 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2015 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2016 | 0 | 0 | 0 | 115 | 0 | 0 | |
| 1 | 2017 | 0 | 0 | 0 | 115 | 0 | 0 | |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
***(since 1992)***

**Basis--->** **Oil**

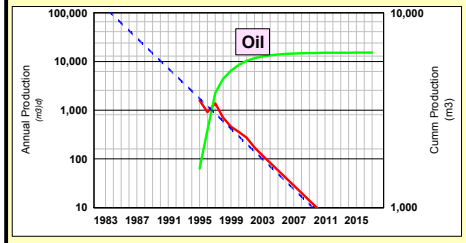
| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | **0.0000** | per month | Decline Factor: | **0.0000** | per month |

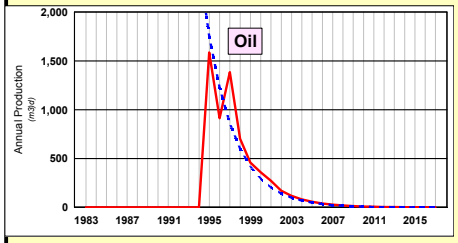
## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Gosfield S. 4-4-III**
TGI Pool: **Gosfield S. 4-4-III**
TGI Field:
No of Wells: **2**

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 172 | m3/yr | 0 | e3m3/yr | 1,238 | m3/yr |
| Cumm to Date: | 5,853 | m3 | 437 | e3m3 | 12,986 | m3 |
| Remaining Recoverable: | 396 | m3 | 0 | e3m3 | 2,851 | m3 |
| Total Recovery: | 6,248 | m3 | 437 | e3m3 | 15,571 | m3 |

Current Rate: 0 m3/d 0 e3m3/d
Current decline rate: 30% annually



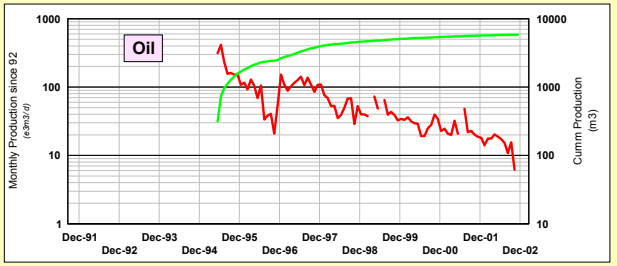



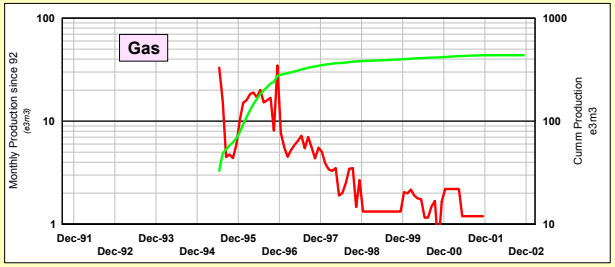

**30%** Pool Decline

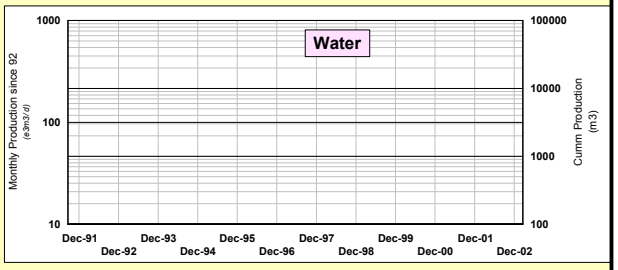
| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1 | 1995 | 1,587 | 68 | 778 | 1,587 | 68 | 778 | 43 |
| 1 | 2 | 1996 | 914 | 207 | 2,000 | 2,501 | 275 | 2,778 | 226 |
| 2 | 3 | 1997 | 1,384 | 71 | 2,892 | 3,885 | 346 | 5,670 | 51 |
| 2 | 4 | 1998 | 704 | 37 | 2,086 | 4,589 | 382 | 7,756 | 52 |
| 2 | 5 | 1999 | 459 | 16 | 1,084 | 5,048 | 398 | 8,841 | 35 |
| 2 | 6 | 2000 | 360 | 19 | 1,548 | 5,407 | 418 | 10,389 | 54 |
| 2 | 7 | 2001 | 273 | 19 | 1,360 | 5,681 | 437 | 11,748 | 71 |
| 1 | 8 | 2002 | 172 | 0 | 1,238 | 5,853 | 437 | 12,986 | 0 |
| | 9 | 2003 | 119 | 0 | 859 | 5,972 | 437 | 13,846 | 0 |
| | 10 | 2004 | 84 | 0 | 602 | 6,055 | 437 | 14,447 | 0 |
| | 11 | 2005 | 58 | 0 | 421 | 6,114 | 437 | 14,868 | 0 |
| | 12 | 2006 | 41 | 0 | 295 | 6,155 | 437 | 15,163 | 0 |
| | 13 | 2007 | 29 | 0 | 206 | 6,184 | 437 | 15,370 | 0 |
| | 14 | 2008 | 20 | 0 | 144 | 6,204 | 437 | 15,514 | 0 |
| | 15 | 2009 | 14 | 0 | 101 | 6,218 | 437 | 15,615 | 0 |
| | 16 | 2010 | 10 | 0 | 71 | 6,227 | 437 | 15,686 | 0 |
| | 17 | 2011 | 7 | 0 | 50 | 6,234 | 437 | 15,735 | 0 |
| | 18 | 2012 | 5 | 0 | 35 | 6,239 | 437 | 15,770 | 0 |
| | 19 | 2013 | 3 | 0 | 24 | 6,243 | 437 | 15,794 | 0 |
| | 20 | 2014 | 2 | 0 | 17 | 6,245 | 437 | 15,811 | 0 |
| | 21 | 2015 | 2 | 0 | 12 | 6,247 | 437 | 15,823 | 0 |
| | 22 | 2016 | 1 | 0 | 8 | 6,248 | 437 | 15,832 | 0 |
| | 23 | 2017 | 1 | 0 | 6 | 6,248 | 437 | 15,837 | 0 |
| To date: | | | 5,853 | 437 | 12,986 | | | | |

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

## Monthly Production vs Month
*(1992 to 2002)*



Well No.: **T008484**

Well Name: **REC #5, Gosfield South 6-5-III**

Status: **Suspended ? Abandoned ?**

MNR Pool: **Gosfield S. 4-4-III**

Well: **T008484**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 50 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 1.2997 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 26.0254 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **205** | m3 | **10** | e3m3 | **267** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **205** | m3 | **10** | e3m3 | **0** | m3 |
| Peak Rate: | 0.2 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 1.1 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.2 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

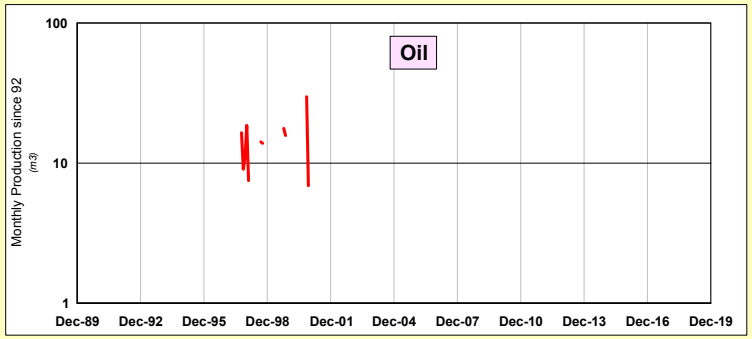
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1997 | 37 | 2 | 155 | 37 | 2 | 155 | 51 |
| 2 | 1998 | 66 | 3 | 47 | 103 | 5 | 202 | 51 |
| 3 | 1999 | 33 | 0 | 0 | 136 | 5 | 202 | 0 |
| 4 | 2000 | 37 | 0 | 65 | 173 | 5 | 267 | 0 |
| 5 | 2001 | 32 | 5 | 0 | 205 | 10 | 267 | 155 |
| 5 | 2002 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2003 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2004 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2005 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2006 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2007 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2008 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2009 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2010 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2011 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2012 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2013 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2014 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2015 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2016 | 0 | 0 | 0 | 205 | 10 | 267 | |
| 5 | 2017 | 0 | 0 | 0 | 205 | 10 | 267 | |

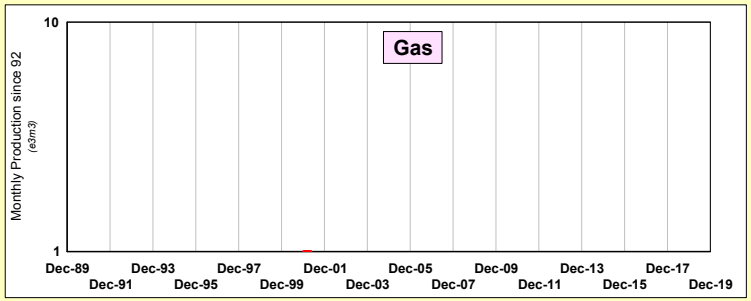
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

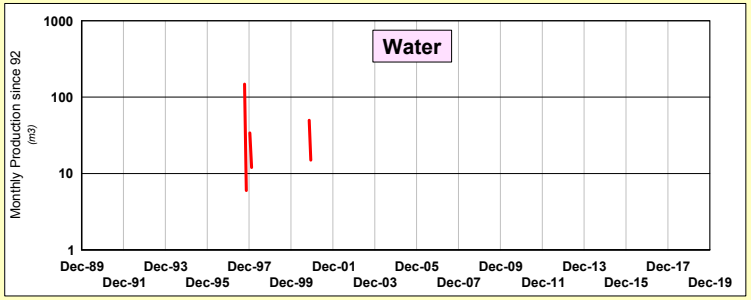
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 0 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | 0.0293 | per month | Decline Factor: | 0.0293 | per month |



Well No.: **T008252**

Well Name: **REC #3 Gosfield South 4-4-III**

Status: **Active**

MNR Pool: **Gosfield S. 4-4-III**

Well: **T008252**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 76 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 7.2025 | m3 per m3 | 2.2523 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 29.7942 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **172** | m3/yr | **0** | e3m3/yr | **1,238** | m3/yr |
| Cumm to Date: | **5,648** | m3 | **427** | e3m3 | **12,720** | m3 |
| Remaining Recoverable: | **396** | m3 | **0** | e3m3 | **2,851** | m3 |
| Total Recovery: | **6,043** | m3 | **427** | e3m3 | **15,571** | m3 |
| Peak Rate: | 4.3 | m3/d | 0.6 | e3m3/d | based on annual | |
| Peak Rate: | 13.7 | m3/d | 1.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.5 | m3/d | 0.6 | e3m3/d | per day based on annual | |
| Current Rate: | 0.5 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

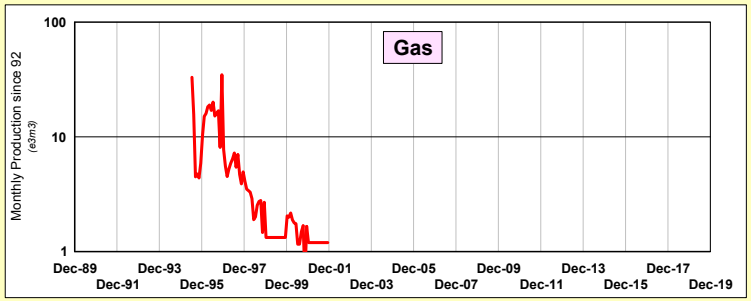
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1995 | 1,587 | 68 | 778 | 1,587 | 68 | 778 | 43 |
| 2 | 1996 | 914 | 207 | 2,000 | 2,501 | 275 | 2,778 | 226 |
| 3 | 1997 | 1,348 | 69 | 2,737 | 3,848 | 344 | 5,516 | 51 |
| 4 | 1998 | 638 | 33 | 2,039 | 4,486 | 377 | 7,555 | 52 |
| 5 | 1999 | 425 | 16 | 1,084 | 4,912 | 393 | 8,639 | 38 |
| 6 | 2000 | 323 | 19 | 1,483 | 5,235 | 413 | 10,122 | 60 |
| 7 | 2001 | 241 | 14 | 1,360 | 5,476 | 427 | 11,482 | 60 |
| 8 | 2002 | 172 | 0 | 1,238 | 5,648 | 427 | 12,720 | 0 |
| 9 | 2003 | 119 | 0 | 859 | 5,767 | 427 | 13,579 | 0 |
| 10 | 2004 | 84 | 0 | 602 | 5,850 | 427 | 14,181 | 0 |
| 11 | 2005 | 58 | 0 | 421 | 5,909 | 427 | 14,602 | 0 |
| 12 | 2006 | 41 | 0 | 295 | 5,950 | 427 | 14,897 | 0 |
| 13 | 2007 | 29 | 0 | 206 | 5,978 | 427 | 15,103 | 0 |
| 14 | 2008 | 20 | 0 | 144 | 5,999 | 427 | 15,248 | 0 |
| 15 | 2009 | 14 | 0 | 101 | 6,013 | 427 | 15,349 | 0 |
| 16 | 2010 | 10 | 0 | 71 | 6,022 | 427 | 15,419 | 0 |
| 17 | 2011 | 7 | 0 | 50 | 6,029 | 427 | 15,469 | 0 |
| 18 | 2012 | 5 | 0 | 35 | 6,034 | 427 | 15,504 | 0 |
| 19 | 2013 | 3 | 0 | 24 | 6,037 | 427 | 15,528 | 0 |
| 20 | 2014 | 2 | 0 | 17 | 6,040 | 427 | 15,545 | 0 |
| 21 | 2015 | 2 | 0 | 12 | 6,041 | 427 | 15,557 | 0 |
| 22 | 2016 | 1 | 0 | 8 | 6,043 | 427 | 15,565 | 0 |
| 23 | 2017 | 1 | 0 | 6 | 6,043 | 427 | 15,571 | 0 |

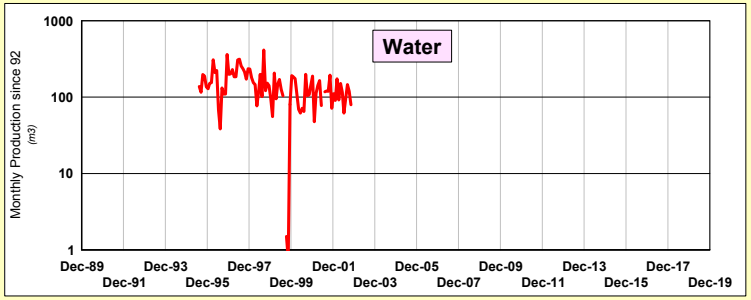
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 0 | e3m3 per month | Start: | 12 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | **0.0293** | per month | Decline Factor: | **0.0293** | per month |



Well No.: **T006669**

Well Name: **Cons et al 33821, Mersea 3 - 12 - I**

Status: **Active Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006669**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 137 | m3 per m3 | 126 | last year |
| 2002 Water/Oil ratio: | 1.4998 | m3 per m3 | 0.8184 | last 10 years |
| 2002 Water/ Gas Ratio: | 11.8707 | m3 per e3m3 | 5.9923 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **575** | m3/yr | **73** | e3m3/yr | **863** | m3/yr |
| Cumm to Date: | **42,084** | m3 | **2,286** | e3m3 | **13,701** | m3 |
| Remaining Recoverable: | **4,322** | m3 | **545** | e3m3 | **6,483** | m3 |
| Total Recoverable : | **46,407** | m3 | **2,831** | e3m3 | **20,184** | m3 |
| Peak Rate: | 14.8 | m3/d | 1.6 | e3m3/d | based on annual | |
| Peak Rate: | 9.6 | m3/d | 2.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 4.8 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 1.6 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

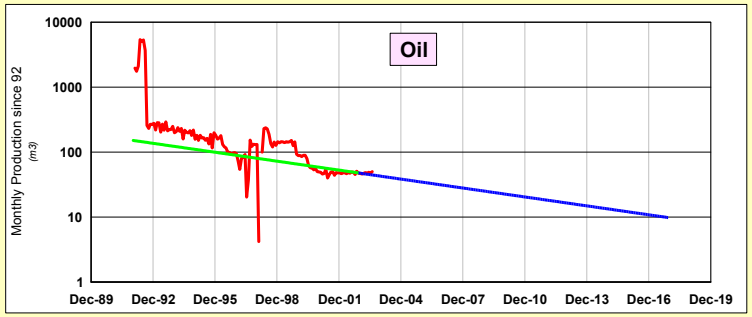
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1985 | 1,972 | 0 | 0 | 1,972 | 0 | 0 | 0 |
| 2 | 1986 | 1,757 | 0 | 0 | 3,729 | 0 | 0 | 0 |
| 3 | 1987 | 2,115 | 0 | 0 | 5,844 | 0 | 0 | 0 |
| 4 | 1988 | 5,401 | 0 | 0 | 11,245 | 0 | 0 | 0 |
| 5 | 1989 | 5,044 | 0 | 0 | 16,288 | 0 | 0 | 0 |
| 6 | 1990 | 5,352 | 0 | 0 | 21,640 | 0 | 0 | 0 |
| 7 | 1991 | 3,704 | 0 | 0 | 25,344 | 0 | 0 | 0 |
| 8 | 1992 | 3,077 | 567 | 2,375 | 28,421 | 567 | 2,375 | 184 |
| 9 | 1993 | 2,577 | 311 | 1,748 | 30,997 | 878 | 4,123 | 121 |
| 10 | 1994 | 2,133 | 0 | 1,442 | 33,130 | 878 | 5,565 | 0 |
| 11 | 1995 | 1,791 | 396 | 1,192 | 34,921 | 1,274 | 6,757 | 221 |
| 12 | 1996 | 926 | 286 | 1,049 | 35,847 | 1,560 | 7,806 | 309 |
| 13 | 1997 | 1,661 | 124 | 982 | 37,508 | 1,684 | 8,788 | 75 |
| 14 | 1998 | 1,673 | 190 | 1,083 | 39,181 | 1,874 | 9,871 | 114 |
| 15 | 1999 | 1,156 | 170 | 1,218 | 40,337 | 2,044 | 11,089 | 147 |
| 16 | 2000 | 598 | 95 | 903 | 40,935 | 2,139 | 11,992 | 159 |
| 17 | 2001 | 574 | 74 | 846 | 41,509 | 2,214 | 12,838 | 129 |
| 18 | 2002 | 575 | 73 | 863 | 42,084 | 2,286 | 13,701 | 126 |
| 19 | 2003 | 544 | 69 | 816 | 42,629 | 2,355 | 14,517 | 126 |
| 20 | 2004 | 490 | 62 | 735 | 43,119 | 2,417 | 15,252 | 126 |
| 21 | 2005 | 441 | 56 | 661 | 43,560 | 2,472 | 15,913 | 126 |
| 22 | 2006 | 397 | 50 | 595 | 43,956 | 2,522 | 16,508 | 126 |
| 23 | 2007 | 357 | 45 | 536 | 44,313 | 2,567 | 17,044 | 126 |
| 24 | 2008 | 321 | 40 | 482 | 44,635 | 2,608 | 17,526 | 126 |
| 25 | 2009 | 289 | 36 | 434 | 44,924 | 2,644 | 17,960 | 126 |
| 26 | 2010 | 260 | 33 | 390 | 45,184 | 2,677 | 18,350 | 126 |
| 27 | 2011 | 234 | 30 | 351 | 45,419 | 2,707 | 18,702 | 126 |
| 28 | 2012 | 211 | 27 | 316 | 45,630 | 2,733 | 19,018 | 126 |
| 29 | 2013 | 190 | 24 | 285 | 45,819 | 2,757 | 19,303 | 126 |
| 30 | 2014 | 171 | 22 | 256 | 45,990 | 2,779 | 19,559 | 126 |
| 31 | 2015 | 154 | 19 | 231 | 46,144 | 2,798 | 19,790 | 126 |
| 32 | 2016 | 138 | 17 | 208 | 46,282 | 2,815 | 19,997 | 126 |
| 33 | 2017 | 125 | 16 | 187 | 46,407 | 2,831 | 20,184 | 126 |

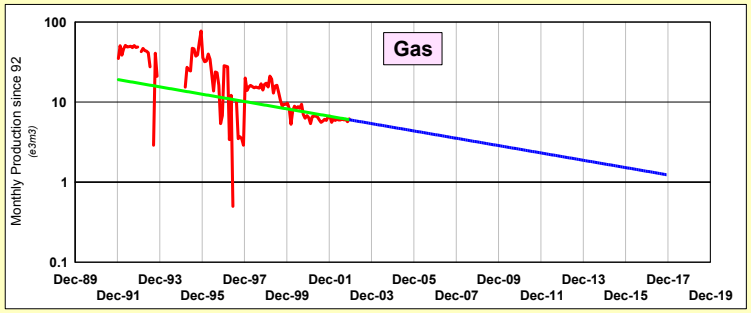
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

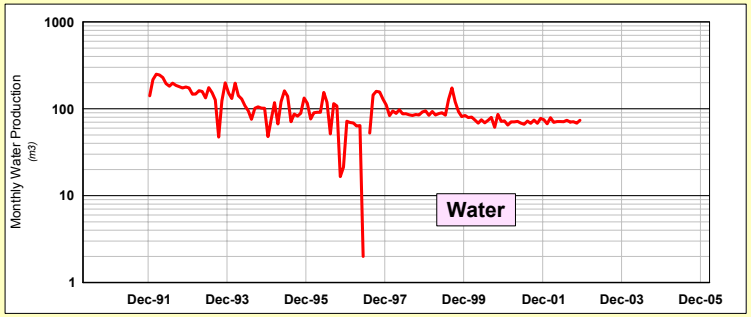
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 126 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 48 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T006540**

Well Name: **Cons et al 33818, Mersea 5 - 12 - I**

Status: **Active Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006540**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 84 | m3 per m3 | 123 | last year | |
| 2002 Water/Oil ratio: | 21.6064 | m3 per m3 | 3.0953 | last 10 years | |
| 2002 Water/ Gas Ratio: | 175.3766 | m3 per e3m3 | 36.7984 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **62** | m3/yr | **8** | e3m3/yr | **1,350** | m3/yr |
| Cumm to Date: | **31,867** | m3 | **297** | e3m3 | **10,929** | m3 |
| Remaining Recoverable: | **450** | m3 | **38** | e3m3 | **9,728** | m3 |
| Total Recoverable : | **32,318** | m3 | **335** | e3m3 | **20,657** | m3 |
| Peak Rate: | 21.8 | m3/d | 0.3 | e3m3/d | based on annual | |
| Peak Rate: | 3.5 | m3/d | 0.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 18.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.2 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

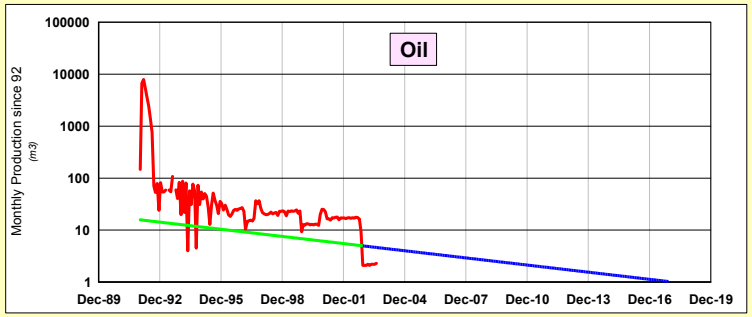
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1984 | 148 | 0 | 0 | 148 | 0 | 0 | 0 |
| 2 | 1985 | 6,713 | 0 | 0 | 6,861 | 0 | 0 | 0 |
| 3 | 1986 | 7,954 | 0 | 0 | 14,814 | 0 | 0 | 0 |
| 4 | 1987 | 5,336 | 0 | 0 | 20,151 | 0 | 0 | 0 |
| 5 | 1988 | 3,638 | 0 | 0 | 23,789 | 0 | 0 | 0 |
| 6 | 1989 | 2,434 | 0 | 0 | 26,223 | 0 | 0 | 0 |
| 7 | 1990 | 1,356 | 0 | 0 | 27,579 | 0 | 0 | 0 |
| 8 | 1991 | 758 | 0 | 0 | 28,337 | 0 | 0 | 0 |
| 9 | 1992 | 699 | 0 | 936 | 29,036 | 0 | 936 | 0 |
| 10 | 1993 | 562 | 0 | 878 | 29,598 | 0 | 1,814 | 0 |
| 11 | 1994 | 477 | 0 | 745 | 30,075 | 0 | 2,559 | 0 |
| 12 | 1995 | 319 | 72 | 765 | 30,394 | 72 | 3,324 | 227 |
| 13 | 1996 | 238 | 102 | 530 | 30,632 | 174 | 3,854 | 426 |
| 14 | 1997 | 299 | 52 | 753 | 30,931 | 226 | 4,607 | 172 |
| 15 | 1998 | 268 | 6 | 662 | 31,200 | 232 | 5,269 | 23 |
| 16 | 1999 | 181 | 0 | 1,204 | 31,381 | 232 | 6,472 | 0 |
| 17 | 2000 | 219 | 20 | 1,755 | 31,600 | 252 | 8,228 | 92 |
| 18 | 2001 | 205 | 37 | 1,351 | 31,805 | 289 | 9,579 | 182 |
| 19 | 2002 | 62 | 8 | 1,350 | 31,867 | 297 | 10,929 | 123 |
| 20 | 2003 | 57 | 5 | 1,225 | 31,924 | 302 | 12,154 | 85 |
| 21 | 2004 | 51 | 4 | 1,103 | 31,975 | 306 | 13,257 | 85 |
| 22 | 2005 | 46 | 4 | 992 | 32,021 | 310 | 14,249 | 85 |
| 23 | 2006 | 41 | 4 | 893 | 32,062 | 314 | 15,142 | 85 |
| 24 | 2007 | 37 | 3 | 804 | 32,100 | 317 | 15,946 | 85 |
| 25 | 2008 | 33 | 3 | 723 | 32,133 | 320 | 16,669 | 85 |
| 26 | 2009 | 30 | 3 | 651 | 32,163 | 322 | 17,320 | 85 |
| 27 | 2010 | 27 | 2 | 586 | 32,190 | 324 | 17,906 | 85 |
| 28 | 2011 | 24 | 2 | 527 | 32,215 | 327 | 18,433 | 85 |
| 29 | 2012 | 22 | 2 | 475 | 32,237 | 328 | 18,908 | 85 |
| 30 | 2013 | 20 | 2 | 427 | 32,256 | 330 | 19,335 | 85 |
| 31 | 2014 | 18 | 2 | 384 | 32,274 | 332 | 19,720 | 85 |
| 32 | 2015 | 16 | 1 | 346 | 32,290 | 333 | 20,066 | 85 |
| 33 | 2016 | 14 | 1 | 311 | 32,305 | 334 | 20,377 | 85 |
| 34 | 2017 | 13 | 1 | 280 | 32,318 | 335 | 20,657 | 85 |

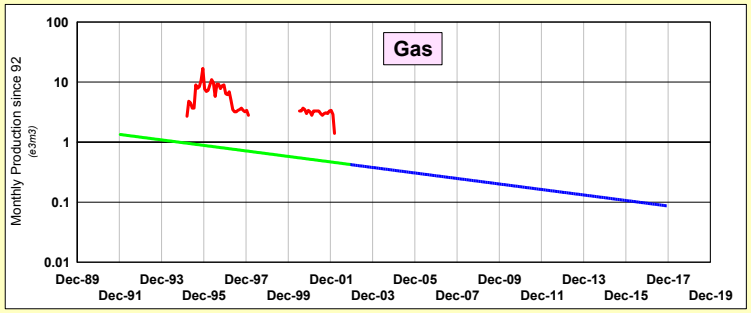
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

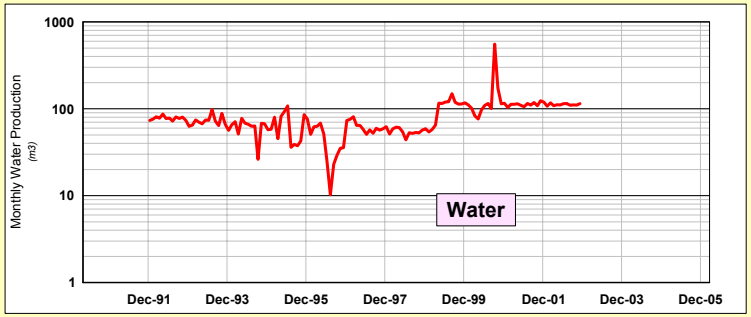
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 85 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 5 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T006539**

Well Name: **Consumers et al 33817, Mersea 3 - 13 - A**

Status: **Active Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006539**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 1.9599 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 16.5730 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **46,147** | m3 | **292** | e3m3 | **4,833** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recoverable : | **46,147** | m3 | **292** | e3m3 | **4,833** | m3 |
| Peak Rate: | 27.5 | m3/d | 0.7 | e3m3/d | based on annual | |
| Peak Rate: | 7.8 | m3/d | 0.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 27.5 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

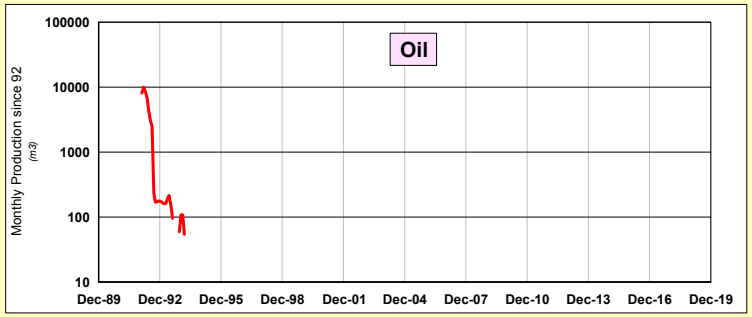
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1985 | 8,145 | 0 | 0 | 8,145 | 0 | 0 | 0 |
| 2 | 1986 | 10,052 | 0 | 0 | 18,197 | 0 | 0 | 0 |
| 3 | 1987 | 8,536 | 0 | 0 | 26,733 | 0 | 0 | 0 |
| 4 | 1988 | 7,022 | 0 | 0 | 33,755 | 0 | 0 | 0 |
| 5 | 1989 | 4,386 | 0 | 0 | 38,141 | 0 | 0 | 0 |
| 6 | 1990 | 3,032 | 0 | 0 | 41,172 | 0 | 0 | 0 |
| 7 | 1991 | 2,509 | 0 | 0 | 43,681 | 0 | 0 | 0 |
| 8 | 1992 | 2,081 | 239 | 1,794 | 45,763 | 239 | 1,794 | 115 |
| 9 | 1993 | 384 | 52 | 3,038 | 46,147 | 292 | 4,833 | 136 |
| 9 | 1994 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 1995 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 1996 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 1997 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 1998 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 1999 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2000 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2001 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2002 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2003 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2004 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2005 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2006 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2007 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2008 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2009 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2010 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2011 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2012 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2013 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2014 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2015 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2016 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |
| 9 | 2017 | 0 | 0 | 0 | 46,147 | 292 | 4,833 | ERR |

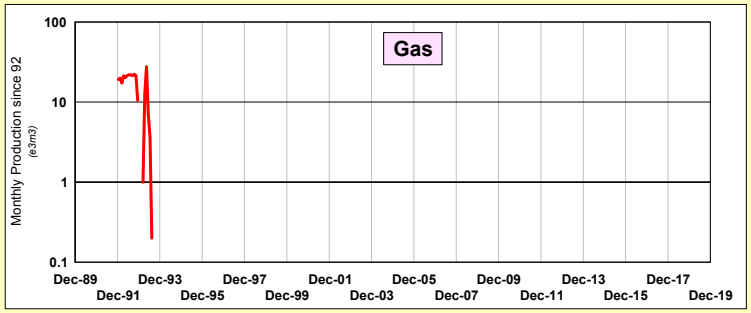
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

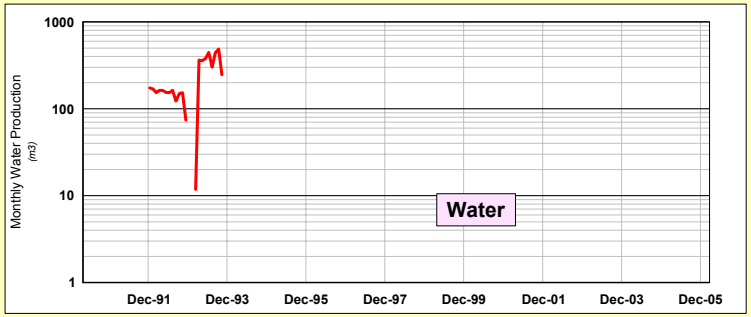
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 700 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T006538**

Well Name: **Consumers et al 33775, Mersea 7 - 12 - I**

Status: **Active Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006538**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 40 | m3 per m3 | 423 | last year | |
| 2002 Water/Oil ratio: | 3.0069 | m3 per m3 | 1.0806 | last 10 years | |
| 2002 Water/ Gas Ratio: | 7.1005 | m3 per e3m3 | 26.7289 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **87** | m3/yr | **37** | e3m3/yr | **261** | m3/yr |
| Cumm to Date: | **20,261** | m3 | **157** | e3m3 | **4,199** | m3 |
| Remaining Recoverable: | **411** | m3 | **175** | e3m3 | **1,237** | m3 |
| Total Recoverable : | **20,672** | m3 | **332** | e3m3 | **5,436** | m3 |
| Peak Rate: | 11.5 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 6.0 | m3/d | 0.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 11.5 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.2 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

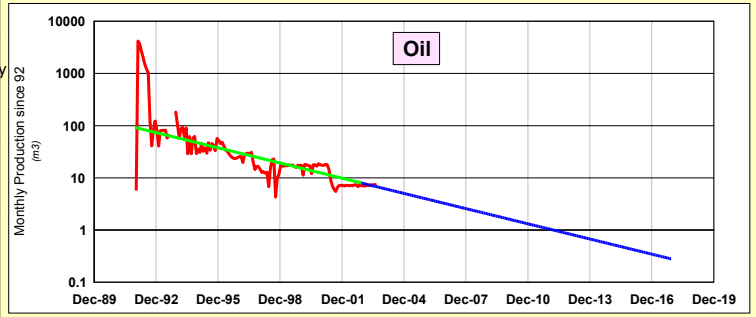
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1984 | 6 | 0 | 0 | 6 | 0 | 0 | 0 |
| 2 | 1985 | 4,191 | 0 | 0 | 4,197 | 0 | 0 | 0 |
| 3 | 1986 | 3,721 | 0 | 0 | 7,918 | 0 | 0 | 0 |
| 4 | 1987 | 2,692 | 0 | 0 | 10,611 | 0 | 0 | 0 |
| 5 | 1988 | 2,032 | 0 | 0 | 12,643 | 0 | 0 | 0 |
| 6 | 1989 | 1,481 | 0 | 0 | 14,123 | 0 | 0 | 0 |
| 7 | 1990 | 1,226 | 0 | 0 | 15,349 | 0 | 0 | 0 |
| 8 | 1991 | 1,026 | 0 | 0 | 16,375 | 0 | 0 | 0 |
| 9 | 1992 | 938 | 0 | 123 | 17,314 | 0 | 123 | 0 |
| 10 | 1993 | 768 | 0 | 236 | 18,081 | 0 | 359 | 0 |
| 11 | 1994 | 472 | 0 | 299 | 18,553 | 0 | 658 | 0 |
| 12 | 1995 | 484 | 55 | 471 | 19,037 | 55 | 1,129 | 113 |
| 13 | 1996 | 314 | 45 | 419 | 19,351 | 99 | 1,548 | 142 |
| 14 | 1997 | 177 | 18 | 418 | 19,528 | 117 | 1,966 | 101 |
| 15 | 1998 | 188 | 3 | 574 | 19,715 | 120 | 2,541 | 18 |
| 16 | 1999 | 196 | 0 | 598 | 19,911 | 120 | 3,138 | 0 |
| 17 | 2000 | 179 | 0 | 550 | 20,090 | 120 | 3,688 | 0 |
| 18 | 2001 | 84 | 0 | 250 | 20,174 | 120 | 3,938 | 0 |
| 19 | 2002 | 87 | 37 | 261 | 20,261 | 157 | 4,199 | 423 |
| 20 | 2003 | 85 | 36 | 256 | 20,346 | 193 | 4,455 | 425 |
| 21 | 2004 | 68 | 29 | 205 | 20,414 | 222 | 4,660 | 425 |
| 22 | 2005 | 55 | 23 | 164 | 20,469 | 245 | 4,825 | 425 |
| 23 | 2006 | 44 | 19 | 131 | 20,513 | 264 | 4,956 | 425 |
| 24 | 2007 | 35 | 15 | 105 | 20,548 | 279 | 5,061 | 425 |
| 25 | 2008 | 28 | 12 | 84 | 20,575 | 291 | 5,145 | 425 |
| 26 | 2009 | 22 | 9 | 67 | 20,598 | 300 | 5,212 | 425 |
| 27 | 2010 | 18 | 8 | 54 | 20,616 | 308 | 5,266 | 425 |
| 28 | 2011 | 14 | 6 | 43 | 20,630 | 314 | 5,309 | 425 |
| 29 | 2012 | 11 | 5 | 34 | 20,641 | 319 | 5,343 | 425 |
| 30 | 2013 | 9 | 4 | 28 | 20,651 | 323 | 5,371 | 425 |
| 31 | 2014 | 7 | 3 | 22 | 20,658 | 326 | 5,393 | 425 |
| 32 | 2015 | 6 | 2 | 18 | 20,664 | 328 | 5,410 | 425 |
| 33 | 2016 | 5 | 2 | 14 | 20,668 | 330 | 5,424 | 425 |
| 34 | 2017 | 4 | 2 | 11 | 20,672 | 332 | 5,436 | 425 |

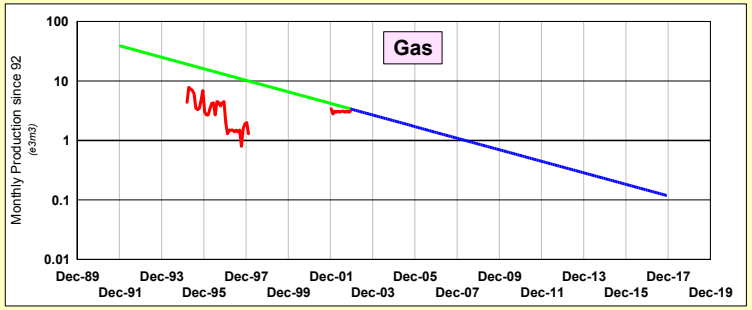
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

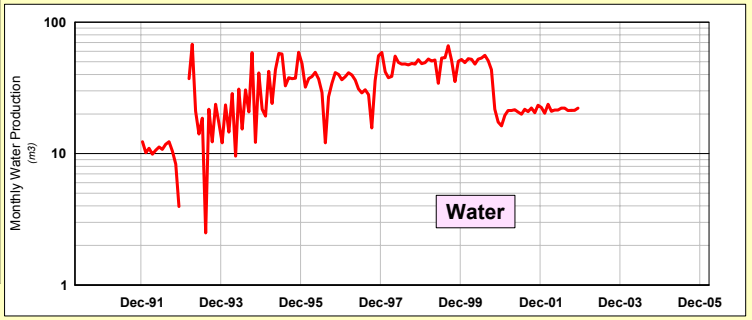
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 425 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 8 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T006389**

Well Name: **Consumers et al 33684, Mersea 8 - 14 - A**

Status: **Abandoned Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006389**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 26 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 1.7855 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 67.9574 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **6,889** | m3 | **169** | e3m3 | **11,492** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recoverable : | **6,889** | m3 | **169** | e3m3 | **11,492** | m3 |
| Peak Rate: | 12.2 | m3/d | 0.3 | e3m3/d | based on annual | |
| Peak Rate: | 14.5 | m3/d | 0.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

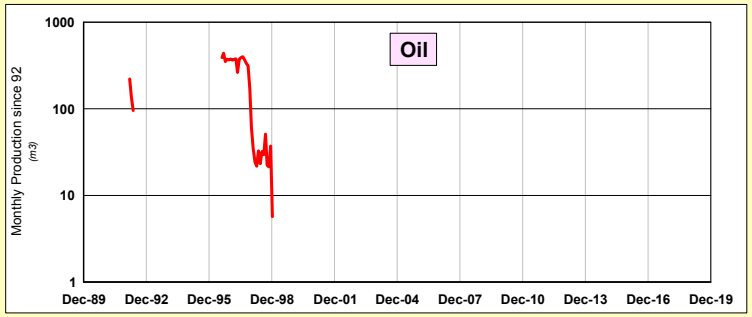
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1986 | 221 | 0 | 0 | 221 | 0 | 0 | 0 |
| 2 | 1987 | 135 | 0 | 0 | 357 | 0 | 0 | 0 |
| 3 | 1988 | 96 | 0 | 0 | 452 | 0 | 0 | 0 |
| 3 | 1989 | 0 | 0 | 0 | 452 | 0 | 0 | ERR |
| 3 | 1990 | 0 | 0 | 0 | 452 | 0 | 0 | ERR |
| 3 | 1991 | 0 | 0 | 0 | 452 | 0 | 0 | ERR |
| 3 | 1992 | 0 | 0 | 0 | 452 | 0 | 0 | ERR |
| 3 | 1993 | 0 | 0 | 0 | 452 | 0 | 0 | ERR |
| 3 | 1994 | 0 | 0 | 0 | 452 | 0 | 0 | ERR |
| 4 | 1995 | 392 | 6 | 240 | 844 | 6 | 240 | 16 |
| 5 | 1996 | 4,458 | 114 | 3,375 | 5,302 | 120 | 3,615 | 25 |
| 6 | 1997 | 1,449 | 40 | 6,011 | 6,751 | 160 | 9,626 | 27 |
| 7 | 1998 | 138 | 10 | 1,866 | 6,889 | 169 | 11,492 | 70 |
| 7 | 1999 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2000 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2001 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2002 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2003 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2004 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2005 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2006 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2007 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2008 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2009 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2010 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2011 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2012 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2013 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2014 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2015 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2016 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |
| 7 | 2017 | 0 | 0 | 0 | 6,889 | 169 | 11,492 | ERR |

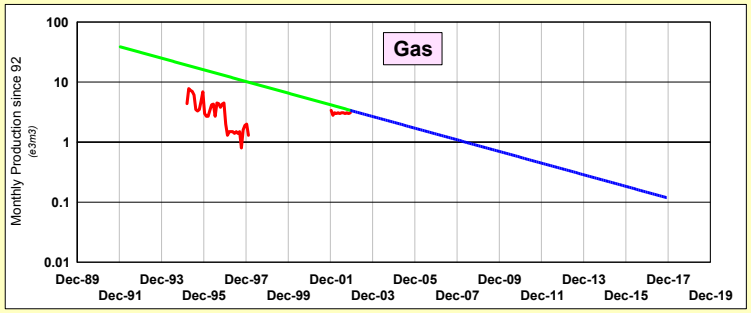
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

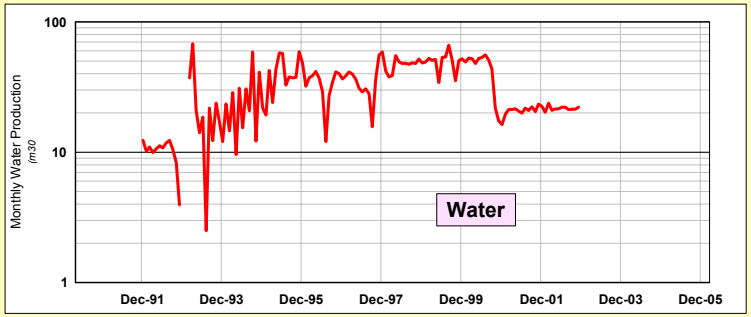
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T009859**

Well Name: **Talisman (Horiz.#1), Mersea 2 - 12 - I**

Status: **Active Well**

MNR Pool: **Hillman**

TGI Pool: **Mersea 2-12-I Pool**

TGI Field: **Hillman Field**

Well: **T009859**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 14 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.5397 | m3 per m3 | 0.5796 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 40.3077 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **50** | m3/yr | **0** | e3m3/yr | **27** | m3/yr |
| Cumm to Date: | **181** | m3 | **3** | e3m3 | **105** | m3 |
| Remaining Recoverable: | **360** | m3 | **4** | e3m3 | **194** | m3 |
| Total Recoverable : | **541** | m3 | **6** | e3m3 | **299** | m3 |
| Peak Rate: | 0.4 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 1.0 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.1 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.1 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

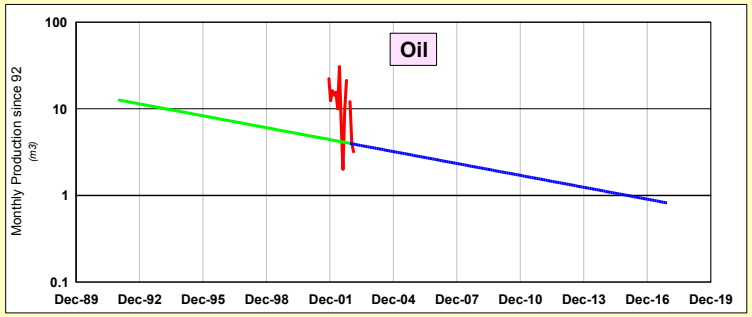
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2001 | 130 | 3 | 78 | 130 | 3 | 78 | 20 |
| 2 | 2002 | 50 | 0 | 27 | 181 | 3 | 105 | 0 |
| 3 | 2003 | 45 | 0 | 24 | 226 | 3 | 129 | 10 |
| 4 | 2004 | 41 | 0 | 22 | 267 | 3 | 151 | 10 |
| 5 | 2005 | 37 | 0 | 20 | 304 | 4 | 171 | 10 |
| 6 | 2006 | 33 | 0 | 18 | 337 | 4 | 189 | 10 |
| 7 | 2007 | 30 | 0 | 16 | 367 | 4 | 205 | 10 |
| 8 | 2008 | 27 | 0 | 14 | 393 | 5 | 219 | 10 |
| 9 | 2009 | 24 | 0 | 13 | 417 | 5 | 233 | 10 |
| 10 | 2010 | 22 | 0 | 12 | 439 | 5 | 244 | 10 |
| 11 | 2011 | 20 | 0 | 11 | 459 | 5 | 255 | 10 |
| 12 | 2012 | 18 | 0 | 9 | 476 | 6 | 264 | 10 |
| 13 | 2013 | 16 | 0 | 9 | 492 | 6 | 273 | 10 |
| 14 | 2014 | 14 | 0 | 8 | 506 | 6 | 280 | 10 |
| 15 | 2015 | 13 | 0 | 7 | 519 | 6 | 287 | 10 |
| 16 | 2016 | 12 | 0 | 6 | 531 | 6 | 294 | 10 |
| 17 | 2017 | 10 | 0 | 6 | 541 | 6 | 299 | 10 |

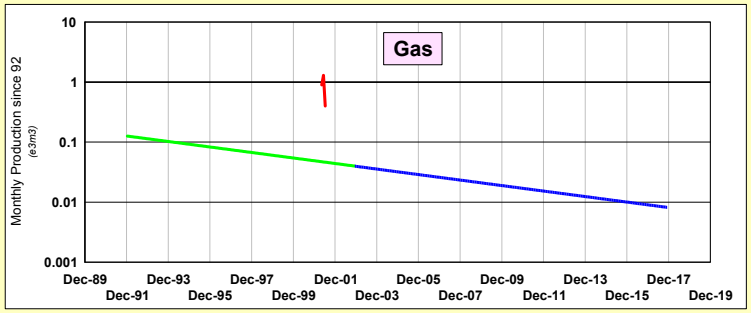
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

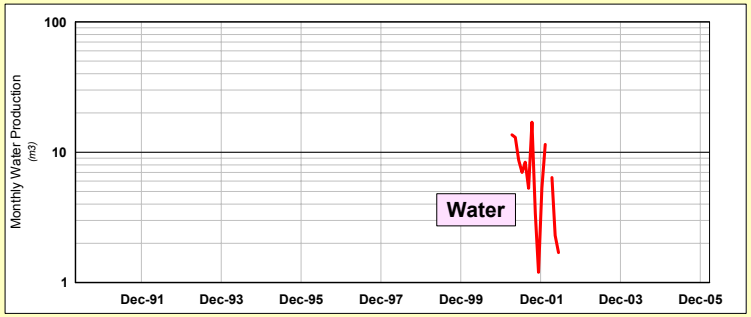
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 10 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 4 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T008701**

Well Name: **Talisman (Horiz.#1), Mersea 7 - 14 - A**

Status: **Active Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T008701**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 37 | m3 per m3 | 0 | last year |
| 2002 Water/Oil ratio: | 1.5002 | m3 per m3 | 1.6127 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 43.6892 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **450** | m3/yr | **0** | e3m3/yr | **675** | m3/yr |
| Cumm to Date: | **2,885** | m3 | **107** | e3m3 | **4,653** | m3 |
| Remaining Recoverable: | **3,012** | m3 | **60** | e3m3 | **4,519** | m3 |
| Total Recoverable : | **5,897** | m3 | **167** | e3m3 | **9,171** | m3 |
| Peak Rate: | 2.3 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 6.8 | m3/d | 0.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.3 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 1.2 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

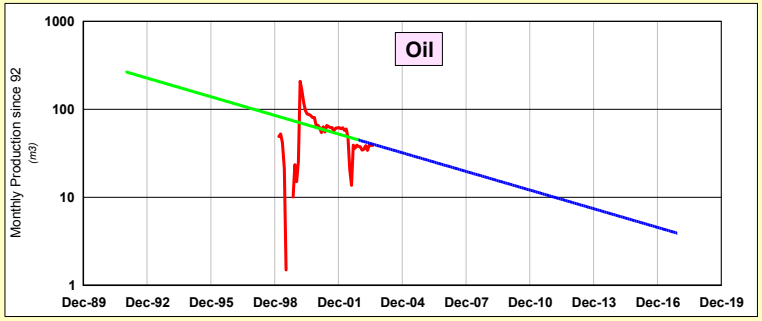
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1998 | 167 | 25 | 200 | 167 | 25 | 200 | 148 |
| 2 | 1999 | 838 | 28 | 1,657 | 1,005 | 53 | 1,857 | 34 |
| 3 | 2000 | 805 | 24 | 1,199 | 1,809 | 77 | 3,056 | 30 |
| 4 | 2001 | 626 | 29 | 922 | 2,435 | 107 | 3,978 | 47 |
| 5 | 2002 | 450 | 0 | 675 | 2,885 | 107 | 4,653 | 0 |
| 6 | 2003 | 495 | 10 | 743 | 3,380 | 116 | 5,396 | 20 |
| 7 | 2004 | 421 | 8 | 631 | 3,801 | 125 | 6,027 | 20 |
| 8 | 2005 | 358 | 7 | 537 | 4,159 | 132 | 6,563 | 20 |
| 9 | 2006 | 304 | 6 | 456 | 4,463 | 138 | 7,019 | 20 |
| 10 | 2007 | 258 | 5 | 388 | 4,721 | 143 | 7,407 | 20 |
| 11 | 2008 | 220 | 4 | 330 | 4,941 | 148 | 7,737 | 20 |
| 12 | 2009 | 187 | 4 | 280 | 5,127 | 151 | 8,017 | 20 |
| 13 | 2010 | 159 | 3 | 238 | 5,286 | 155 | 8,255 | 20 |
| 14 | 2011 | 135 | 3 | 202 | 5,421 | 157 | 8,457 | 20 |
| 15 | 2012 | 115 | 2 | 172 | 5,536 | 160 | 8,629 | 20 |
| 16 | 2013 | 97 | 2 | 146 | 5,633 | 161 | 8,775 | 20 |
| 17 | 2014 | 83 | 2 | 124 | 5,716 | 163 | 8,900 | 20 |
| 18 | 2015 | 70 | 1 | 106 | 5,786 | 165 | 9,005 | 20 |
| 19 | 2016 | 60 | 1 | 90 | 5,846 | 166 | 9,095 | 20 |
| 20 | 2017 | 51 | 1 | 76 | 5,897 | 167 | 9,171 | 20 |

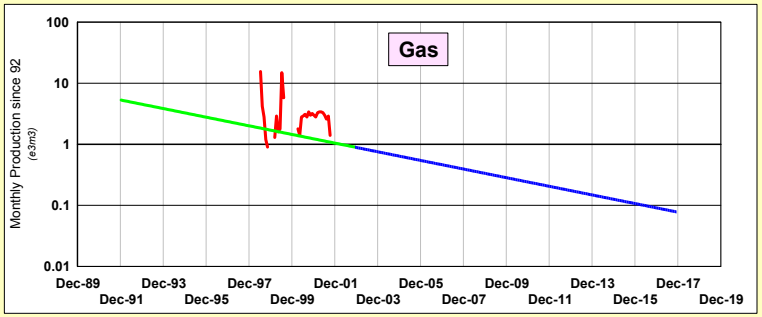
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

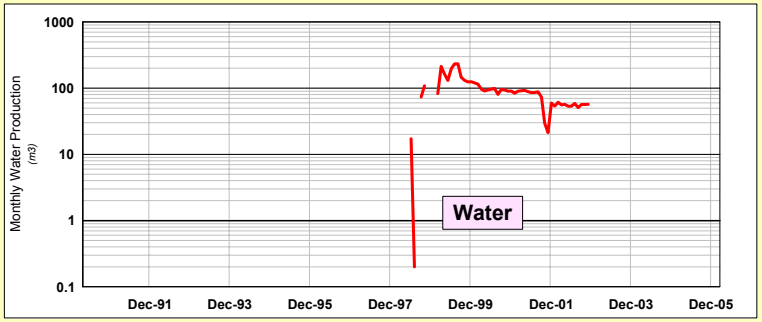
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 20 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 45 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T008700**

Well Name: **Talisman (Horiz.#1), Mersea 7 - 237 - STR**

Status: **Active Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T008700**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 330 | m3 per m3 | 682 | last year | |
| 2002 Water/Oil ratio: | 1.8749 | m3 per m3 | 1.5059 | last 10 years | |
| 2002 Water/ Gas Ratio: | 2.7475 | m3 per e3m3 | 4.5605 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **832** | m3/yr | **568** | e3m3/yr | **1,559** | m3/yr |
| Cumm to Date: | **12,857** | m3 | **4,245** | e3m3 | **19,361** | m3 |
| Remaining Recoverable: | **2,846** | m3 | **1,993** | e3m3 | **5,337** | m3 |
| Total Recoverable : | **15,703** | m3 | **6,238** | e3m3 | **24,698** | m3 |
| Peak Rate: | 13.1 | m3/d | 3.6 | e3m3/d | based on annual | |
| Peak Rate: | 98.7 | m3/d | 5.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 9.9 | m3/d | 3.6 | e3m3/d | per day based on annual | |
| Current Rate: | 2.3 | m3/d | 1.6 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

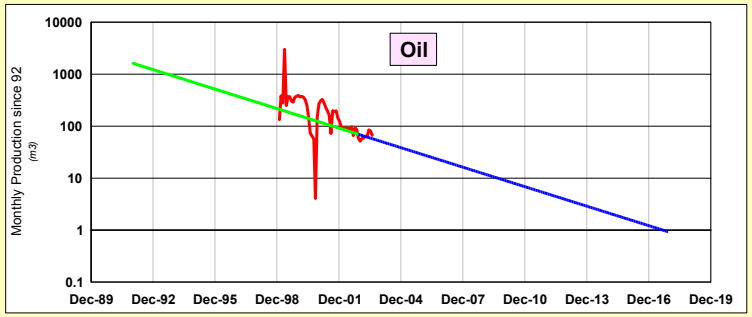
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1998 | 4,786 | 175 | 3,920 | 4,786 | 175 | 3,920 | 37 |
| 2 | 1999 | 3,630 | 1,332 | 6,914 | 8,416 | 1,507 | 10,834 | 367 |
| 3 | 2000 | 2,117 | 1,088 | 4,212 | 10,533 | 2,595 | 15,046 | 514 |
| 4 | 2001 | 1,492 | 1,083 | 2,755 | 12,025 | 3,678 | 17,802 | 726 |
| 5 | 2002 | 832 | 568 | 1,559 | 12,857 | 4,245 | 19,361 | 682 |
| 6 | 2003 | 721 | 505 | 1,352 | 13,578 | 4,750 | 20,713 | 700 |
| 7 | 2004 | 541 | 379 | 1,014 | 14,119 | 5,129 | 21,727 | 700 |
| 8 | 2005 | 406 | 284 | 761 | 14,525 | 5,413 | 22,488 | 700 |
| 9 | 2006 | 304 | 213 | 571 | 14,829 | 5,626 | 23,059 | 700 |
| 10 | 2007 | 228 | 160 | 428 | 15,057 | 5,786 | 23,487 | 700 |
| 11 | 2008 | 171 | 120 | 321 | 15,228 | 5,905 | 23,807 | 700 |
| 12 | 2009 | 128 | 90 | 241 | 15,357 | 5,995 | 24,048 | 700 |
| 13 | 2010 | 96 | 67 | 181 | 15,453 | 6,063 | 24,229 | 700 |
| 14 | 2011 | 72 | 51 | 135 | 15,525 | 6,113 | 24,364 | 700 |
| 15 | 2012 | 54 | 38 | 102 | 15,579 | 6,151 | 24,466 | 700 |
| 16 | 2013 | 41 | 28 | 76 | 15,620 | 6,180 | 24,542 | 700 |
| 17 | 2014 | 30 | 21 | 57 | 15,650 | 6,201 | 24,599 | 700 |
| 18 | 2015 | 23 | 16 | 43 | 15,673 | 6,217 | 24,642 | 700 |
| 19 | 2016 | 17 | 12 | 32 | 15,690 | 6,229 | 24,674 | 700 |
| 20 | 2017 | 13 | 9 | 24 | 15,703 | 6,238 | 24,698 | 700 |

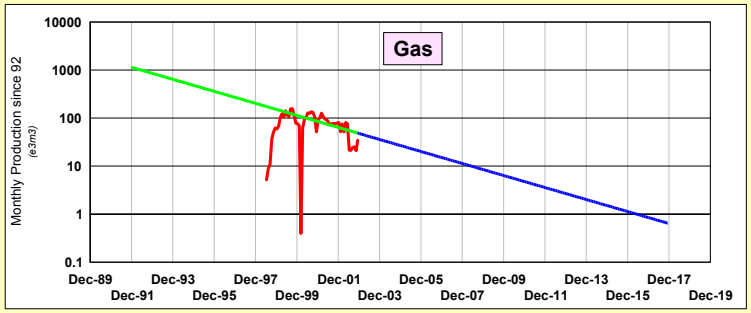
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

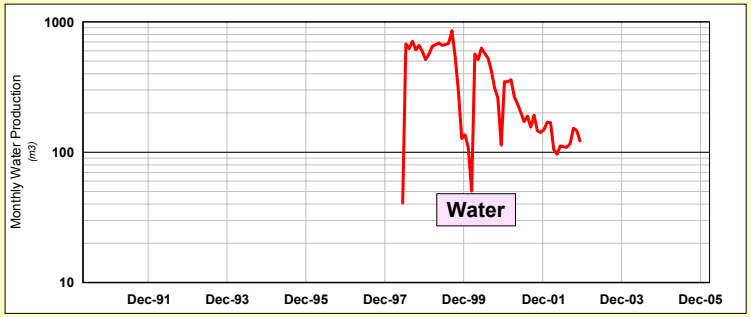
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 700 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 70 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | 0.0237 | per month | Decline Factor: | 0.0237 | per month |



Well No.: **T008355**

Well Name: **Pembina et al (Horiz. #1), Mersea 6 - 239 - STR**

Status: **Active Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T008355**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 288 | m3 per m3 | 385 | last year | |
| 2002 Water/Oil ratio: | 0.8879 | m3 per m3 | 0.7864 | last 10 years | |
| 2002 Water/ Gas Ratio: | 2.3046 | m3 per e3m3 | 2.7300 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **190** | m3/yr | **73** | e3m3/yr | **169** | m3/yr |
| Cumm to Date: | **6,952** | m3 | **2,003** | e3m3 | **5,467** | m3 |
| Remaining Recoverable: | **771** | m3 | **231** | e3m3 | **685** | m3 |
| Total Recoverable : | **7,723** | m3 | **2,234** | e3m3 | **6,152** | m3 |
| Peak Rate: | 5.1 | m3/d | 1.5 | e3m3/d | based on annual | |
| Peak Rate: | 10.6 | m3/d | 2.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 5.1 | m3/d | 1.5 | e3m3/d | per day based on annual | |
| Current Rate: | 0.5 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

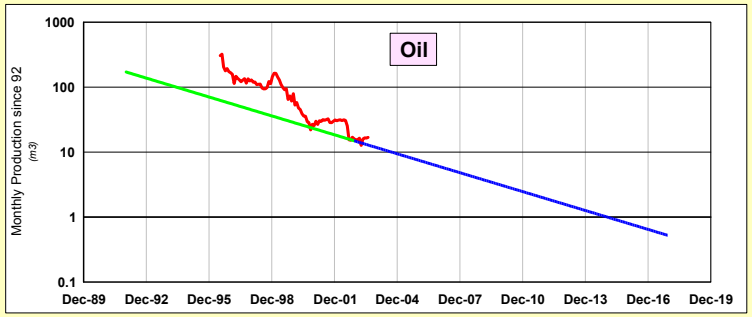
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1995 | 629 | 0 | 366 | 629 | 0 | 366 | 0 |
| 2 | 1996 | 1,856 | 542 | 1,470 | 2,485 | 542 | 1,836 | 292 |
| 3 | 1997 | 1,405 | 316 | 997 | 3,890 | 858 | 2,833 | 225 |
| 4 | 1998 | 1,476 | 380 | 1,163 | 5,366 | 1,238 | 3,996 | 257 |
| 5 | 1999 | 689 | 356 | 649 | 6,055 | 1,593 | 4,645 | 516 |
| 6 | 2000 | 344 | 152 | 333 | 6,399 | 1,745 | 4,978 | 442 |
| 7 | 2001 | 363 | 184 | 320 | 6,762 | 1,929 | 5,298 | 507 |
| 8 | 2002 | 190 | 73 | 169 | 6,952 | 2,003 | 5,467 | 385 |
| 9 | 2003 | 160 | 48 | 142 | 7,112 | 2,050 | 5,609 | 300 |
| 10 | 2004 | 128 | 38 | 114 | 7,240 | 2,089 | 5,722 | 300 |
| 11 | 2005 | 102 | 31 | 91 | 7,342 | 2,119 | 5,813 | 300 |
| 12 | 2006 | 82 | 25 | 73 | 7,424 | 2,144 | 5,886 | 300 |
| 13 | 2007 | 65 | 20 | 58 | 7,489 | 2,164 | 5,944 | 300 |
| 14 | 2008 | 52 | 16 | 47 | 7,541 | 2,179 | 5,990 | 300 |
| 15 | 2009 | 42 | 13 | 37 | 7,583 | 2,192 | 6,028 | 300 |
| 16 | 2010 | 34 | 10 | 30 | 7,617 | 2,202 | 6,057 | 300 |
| 17 | 2011 | 27 | 8 | 24 | 7,644 | 2,210 | 6,081 | 300 |
| 18 | 2012 | 21 | 6 | 19 | 7,665 | 2,217 | 6,100 | 300 |
| 19 | 2013 | 17 | 5 | 15 | 7,682 | 2,222 | 6,116 | 300 |
| 20 | 2014 | 14 | 4 | 12 | 7,696 | 2,226 | 6,128 | 300 |
| 21 | 2015 | 11 | 3 | 10 | 7,707 | 2,229 | 6,137 | 300 |
| 22 | 2016 | 9 | 3 | 8 | 7,716 | 2,232 | 6,145 | 300 |
| 23 | 2017 | 7 | 2 | 6 | 7,723 | 2,234 | 6,152 | 300 |

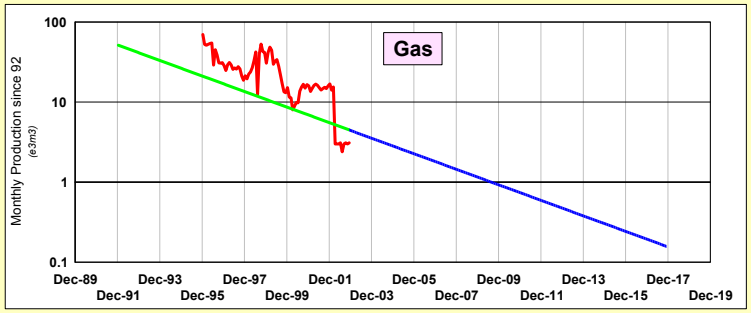
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

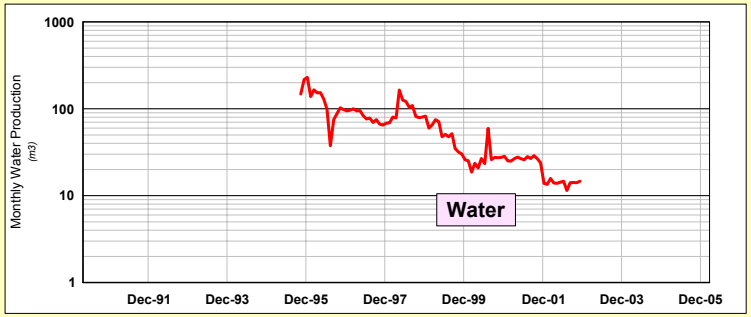
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 300 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 15 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007175**

Well Name: **Cons et al 34105, Mersea 3 - 11 - I**

Status: **Active Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T007175**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 100 | m3 per m3 | 115 | last year | |
| 2002 Water/Oil ratio: | 0.5119 | m3 per m3 | 0.0196 | last 10 years | |
| 2002 Water/ Gas Ratio: | 4.4444 | m3 per e3m3 | 0.1955 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **55** | m3/yr | **6** | e3m3/yr | **28** | m3/yr |
| Cumm to Date: | **10,451** | m3 | **578** | e3m3 | **113** | m3 |
| Remaining Recoverable: | **360** | m3 | **54** | e3m3 | **184** | m3 |
| Total Recoverable : | **10,811** | m3 | **632** | e3m3 | **297** | m3 |
| Peak Rate: | 3.7 | m3/d | 0.5 | e3m3/d | based on annual | |
| Peak Rate: | 4.3 | m3/d | 1.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.7 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.1 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

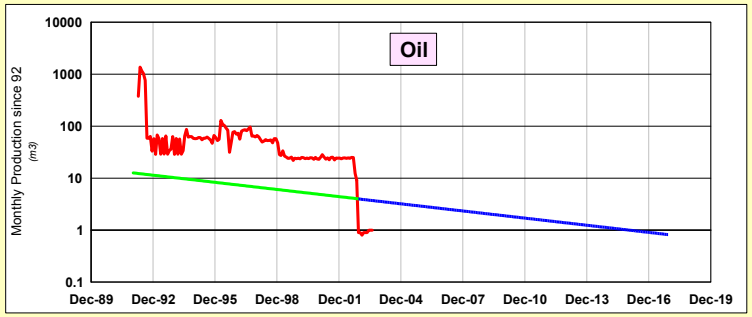
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1987 | 378 | 0 | 0 | 378 | 0 | 0 | 0 |
| 2 | 1988 | 1,367 | 0 | 0 | 1,745 | 0 | 0 | 0 |
| 3 | 1989 | 1,154 | 0 | 0 | 2,898 | 0 | 0 | 0 |
| 4 | 1990 | 1,030 | 0 | 0 | 3,928 | 0 | 0 | 0 |
| 5 | 1991 | 763 | 0 | 0 | 4,691 | 0 | 0 | 0 |
| 6 | 1992 | 606 | 0 | 5 | 5,297 | 0 | 5 | 0 |
| 7 | 1993 | 549 | 0 | 18 | 5,847 | 0 | 22 | 0 |
| 8 | 1994 | 717 | 0 | 10 | 6,563 | 0 | 32 | 0 |
| 9 | 1995 | 912 | 174 | 5 | 7,475 | 174 | 37 | 191 |
| 10 | 1996 | 856 | 160 | 0 | 8,332 | 334 | 37 | 187 |
| 11 | 1997 | 735 | 103 | 0 | 9,066 | 437 | 37 | 140 |
| 12 | 1998 | 455 | 30 | 0 | 9,521 | 467 | 37 | 65 |
| 13 | 1999 | 290 | 41 | 0 | 9,811 | 508 | 37 | 142 |
| 14 | 2000 | 294 | 27 | 9 | 10,105 | 535 | 46 | 91 |
| 15 | 2001 | 291 | 37 | 39 | 10,396 | 572 | 85 | 129 |
| 16 | 2002 | 55 | 6 | 28 | 10,451 | 578 | 113 | 115 |
| 17 | 2003 | 45 | 7 | 23 | 10,496 | 585 | 136 | 150 |
| 18 | 2004 | 41 | 6 | 21 | 10,537 | 591 | 157 | 150 |
| 19 | 2005 | 37 | 6 | 19 | 10,574 | 597 | 176 | 150 |
| 20 | 2006 | 33 | 5 | 17 | 10,607 | 602 | 193 | 150 |
| 21 | 2007 | 30 | 4 | 15 | 10,636 | 606 | 208 | 150 |
| 22 | 2008 | 27 | 4 | 14 | 10,663 | 610 | 222 | 150 |
| 23 | 2009 | 24 | 4 | 12 | 10,687 | 614 | 234 | 150 |
| 24 | 2010 | 22 | 3 | 11 | 10,709 | 617 | 245 | 150 |
| 25 | 2011 | 20 | 3 | 10 | 10,728 | 620 | 255 | 150 |
| 26 | 2012 | 18 | 3 | 9 | 10,746 | 623 | 264 | 150 |
| 27 | 2013 | 16 | 2 | 8 | 10,762 | 625 | 272 | 150 |
| 28 | 2014 | 14 | 2 | 7 | 10,776 | 627 | 280 | 150 |
| 29 | 2015 | 13 | 2 | 7 | 10,789 | 629 | 286 | 150 |
| 30 | 2016 | 12 | 2 | 6 | 10,800 | 631 | 292 | 150 |
| 31 | 2017 | 10 | 2 | 5 | 10,811 | 632 | 297 | 150 |

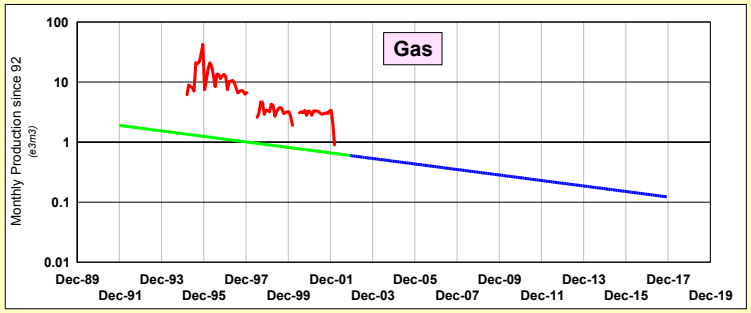
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

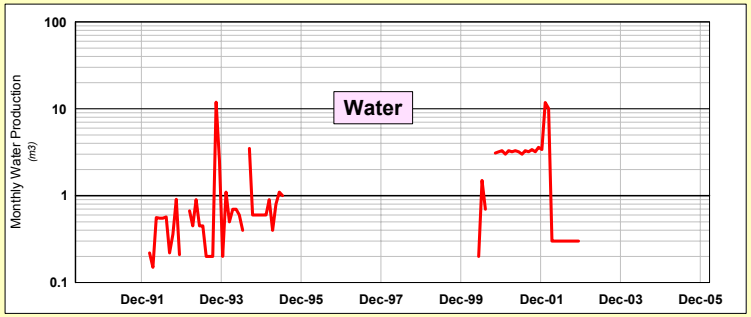
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 150 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 4 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | 0.0087 | per month | Decline Factor: | 0.0087 | per month |



Well No.: **T006895**

Well Name: **Cons et al 34100, Mersea 1 - 10 - I**

Status: **Abandoned Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006895**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 147 | m3 per m3 | ERR | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.2155 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 1.4614 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 0 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 5,690 | m3 | 535 | e3m3 | 782 | m3 |
| Remaining Recoverable: | 0 | m3 | 0 | e3m3 | 0 | m3 |
| Total Recoverable : | 5,690 | m3 | 535 | e3m3 | 782 | m3 |
| Peak Rate: | 1.9 | m3/d | 0.4 | e3m3/d | based on annual | |
| Peak Rate: | 3.5 | m3/d | 0.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.1 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

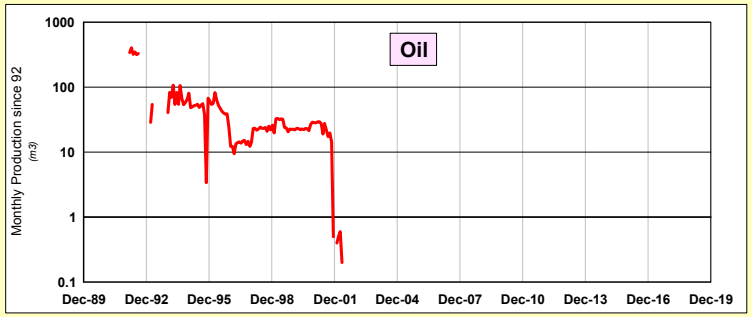
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1986 | 342 | 0 | 0 | 342 | 0 | 0 | 0 |
| 2 | 1987 | 404 | 0 | 0 | 745 | 0 | 0 | 0 |
| 3 | 1988 | 321 | 0 | 0 | 1,066 | 0 | 0 | 0 |
| 4 | 1989 | 349 | 0 | 0 | 1,415 | 0 | 0 | 0 |
| 5 | 1990 | 317 | 0 | 0 | 1,732 | 0 | 0 | 0 |
| 6 | 1991 | 330 | 0 | 0 | 2,062 | 0 | 0 | 0 |
| 7 | 1992 | 226 | 0 | 17 | 2,289 | 0 | 17 | 0 |
| 8 | 1993 | 652 | 16 | 123 | 2,941 | 16 | 140 | 24 |
| 9 | 1994 | 685 | 89 | 118 | 3,625 | 105 | 258 | 130 |
| 10 | 1995 | 626 | 123 | 118 | 4,251 | 227 | 376 | 196 |
| 11 | 1996 | 246 | 136 | 125 | 4,497 | 363 | 501 | 551 |
| 12 | 1997 | 231 | 89 | 58 | 4,729 | 452 | 558 | 385 |
| 13 | 1998 | 324 | 46 | 89 | 5,053 | 498 | 647 | 141 |
| 14 | 1999 | 271 | 0 | 60 | 5,324 | 498 | 707 | 0 |
| 15 | 2000 | 312 | 23 | 67 | 5,636 | 521 | 774 | 74 |
| 16 | 2001 | 54 | 14 | 8 | 5,690 | 535 | 782 | 257 |
| 16 | 2002 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2003 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2004 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2005 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2006 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2007 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2008 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2009 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2010 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2011 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2012 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2013 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2014 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2015 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2016 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |
| 16 | 2017 | 0 | 0 | 0 | 5,690 | 535 | 782 | ERR |

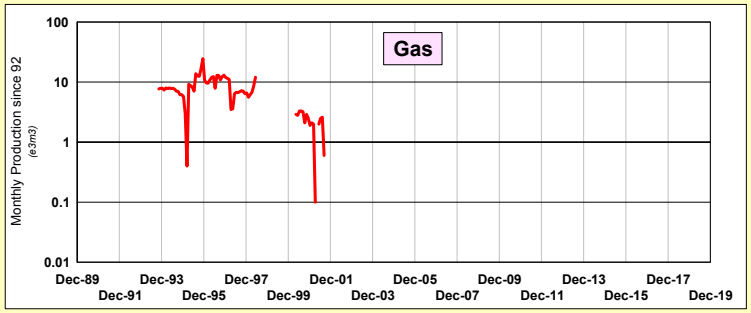
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

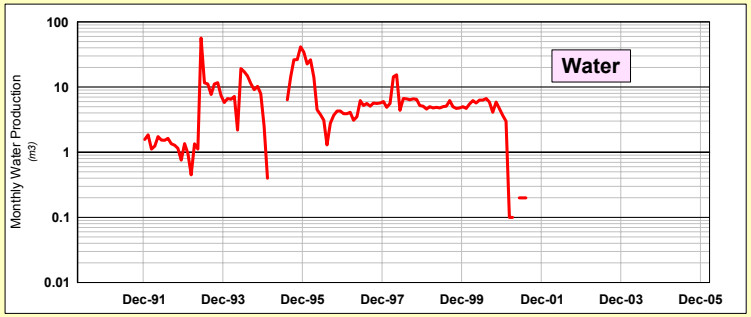
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | 0.0087 | per month | Decline Factor: | 0.0087 | per month |



Well No.: **T006897**

Well Name: **Cons et al 34102, Mersea 1 - 11 - I**

Status: **Active Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006897**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 95 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.4375 | m3 per m3 | 0.3464 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 3.6633 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **58** | m3/yr | **0** | e3m3/yr | **25** | m3/yr |
| Cumm to Date: | **74,654** | m3 | **2,068** | e3m3 | **7,575** | m3 |
| Remaining Recoverable: | **132** | m3 | **0** | e3m3 | **58** | m3 |
| Total Recoverable : | **74,786** | m3 | **2,068** | e3m3 | **7,632** | m3 |
| Peak Rate: | 31.1 | m3/d | 1.0 | e3m3/d | based on annual | |
| Peak Rate: | 14.9 | m3/d | 1.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 31.1 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.2 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

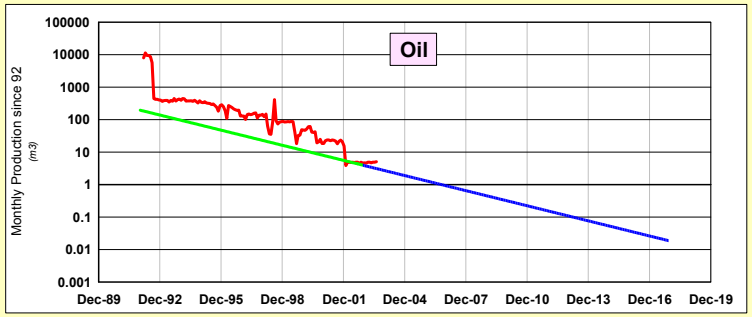
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1986 | 8,008 | 0 | 0 | 8,008 | 0 | 0 | 0 |
| 2 | 1987 | 11,374 | 0 | 0 | 19,382 | 0 | 0 | 0 |
| 3 | 1988 | 9,505 | 0 | 0 | 28,887 | 0 | 0 | 0 |
| 4 | 1989 | 9,471 | 0 | 0 | 38,358 | 0 | 0 | 0 |
| 5 | 1990 | 8,723 | 0 | 0 | 47,081 | 0 | 0 | 0 |
| 6 | 1991 | 5,709 | 0 | 0 | 52,790 | 0 | 0 | 0 |
| 7 | 1992 | 4,759 | 272 | 1,409 | 57,549 | 272 | 1,409 | 57 |
| 8 | 1993 | 4,847 | 295 | 1,557 | 62,396 | 567 | 2,966 | 61 |
| 9 | 1994 | 4,060 | 292 | 1,187 | 66,456 | 859 | 4,153 | 72 |
| 10 | 1995 | 2,790 | 357 | 1,160 | 69,247 | 1,216 | 5,312 | 128 |
| 11 | 1996 | 1,830 | 212 | 563 | 71,076 | 1,428 | 5,875 | 116 |
| 12 | 1997 | 1,608 | 172 | 480 | 72,684 | 1,599 | 6,355 | 107 |
| 13 | 1998 | 988 | 156 | 486 | 73,672 | 1,755 | 6,841 | 158 |
| 14 | 1999 | 528 | 228 | 539 | 74,200 | 1,983 | 7,380 | 432 |
| 15 | 2000 | 264 | 57 | 113 | 74,464 | 2,040 | 7,492 | 214 |
| 16 | 2001 | 133 | 28 | 57 | 74,597 | 2,068 | 7,549 | 209 |
| 17 | 2002 | 58 | 0 | 25 | 74,654 | 2,068 | 7,575 | 0 |
| 18 | 2003 | 40 | 0 | 17 | 74,694 | 2,068 | 7,592 | 0 |
| 19 | 2004 | 28 | 0 | 12 | 74,722 | 2,068 | 7,604 | 0 |
| 20 | 2005 | 19 | 0 | 9 | 74,741 | 2,068 | 7,613 | 0 |
| 21 | 2006 | 14 | 0 | 6 | 74,755 | 2,068 | 7,619 | 0 |
| 22 | 2007 | 10 | 0 | 4 | 74,765 | 2,068 | 7,623 | 0 |
| 23 | 2008 | 7 | 0 | 3 | 74,771 | 2,068 | 7,626 | 0 |
| 24 | 2009 | 5 | 0 | 2 | 74,776 | 2,068 | 7,628 | 0 |
| 25 | 2010 | 3 | 0 | 1 | 74,779 | 2,068 | 7,629 | 0 |
| 26 | 2011 | 2 | 0 | 1 | 74,782 | 2,068 | 7,630 | 0 |
| 27 | 2012 | 2 | 0 | 1 | 74,783 | 2,068 | 7,631 | 0 |
| 28 | 2013 | 1 | 0 | 0 | 74,784 | 2,068 | 7,631 | 0 |
| 29 | 2014 | 1 | 0 | 0 | 74,785 | 2,068 | 7,632 | 0 |
| 30 | 2015 | 1 | 0 | 0 | 74,786 | 2,068 | 7,632 | 0 |
| 31 | 2016 | 0 | 0 | 0 | 74,786 | 2,068 | 7,632 | 0 |
| 32 | 2017 | 0 | 0 | 0 | 74,786 | 2,068 | 7,632 | 0 |

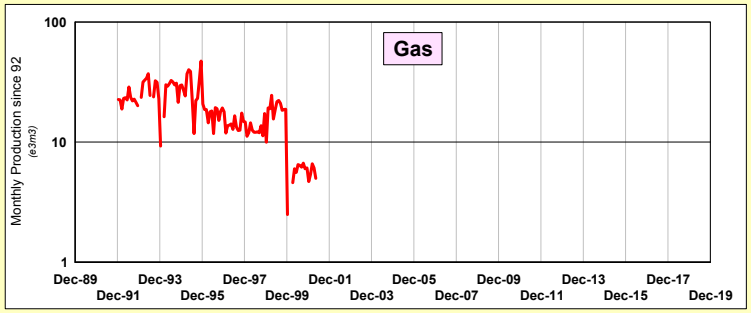
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

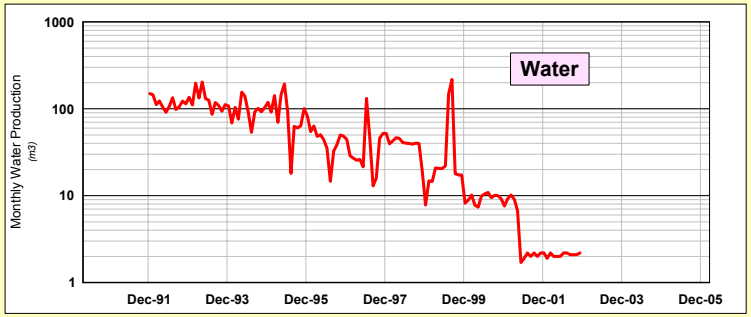
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 4 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | **0.0293** | per month | Decline Factor: | **0.0293** | per month |



Well No.: **T006833**

Well Name: **Cons et al 33826, Mersea 7 - 13 - I**

Status: **Abandoned Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006833**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | ERR | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **14** | m3 | **0** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recoverable : | **14** | m3 | **0** | e3m3 | **0** | m3 |
| Peak Rate: | 0.0 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 0.0 | m3/d | ERR | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1986 | 14 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1987 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1988 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1989 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1990 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1991 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1992 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1993 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1994 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1995 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1996 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1997 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1998 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 1999 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2000 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2001 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2002 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2003 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2004 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2005 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2006 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2007 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2008 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2009 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2010 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2011 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2012 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2013 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2014 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2015 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2016 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |
| 1 | 2017 | 0 | 0 | 0 | 14 | 0 | 0 | ERR |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
***(since 1992)***

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |

Well No.: **T006832**

Well Name: **Cons et al 33825, Mersea 7 - 14 - A**

Status: **Abandoned Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006832**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 150 | m3 per m3 | ERR | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 12.6439 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 84.2014 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **29,264** | m3 | **565** | e3m3 | **47,579** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recoverable : | **29,264** | m3 | **565** | e3m3 | **47,579** | m3 |
| Peak Rate: | 17.4 | m3/d | 0.6 | e3m3/d | based on annual | |
| Peak Rate: | 5.2 | m3/d | 1.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 14.3 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1985 | 509 | 0 | 0 | 509 | 0 | 0 | 0 |
| 2 | 1986 | 5,239 | 0 | 0 | 5,748 | 0 | 0 | 0 |
| 3 | 1987 | 6,349 | 0 | 0 | 12,097 | 0 | 0 | 0 |
| 4 | 1988 | 5,468 | 0 | 0 | 17,565 | 0 | 0 | 0 |
| 5 | 1989 | 3,762 | 0 | 0 | 21,327 | 0 | 0 | 0 |
| 6 | 1990 | 2,368 | 0 | 0 | 23,695 | 0 | 0 | 0 |
| 7 | 1991 | 1,807 | 0 | 0 | 25,501 | 0 | 0 | 0 |
| 8 | 1992 | 1,505 | 204 | 7,649 | 27,006 | 204 | 7,649 | 136 |
| 9 | 1993 | 854 | 204 | 6,184 | 27,860 | 408 | 13,834 | 239 |
| 10 | 1994 | 278 | 0 | 5,647 | 28,139 | 408 | 19,480 | 0 |
| 11 | 1995 | 318 | 39 | 7,412 | 28,456 | 447 | 26,892 | 122 |
| 12 | 1996 | 446 | 74 | 11,364 | 28,902 | 521 | 38,256 | 167 |
| 13 | 1997 | 326 | 40 | 8,291 | 29,228 | 561 | 46,547 | 122 |
| 14 | 1998 | 36 | 5 | 1,032 | 29,264 | 565 | 47,579 | 125 |
| 14 | 1999 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2000 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2001 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2002 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2003 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2004 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2005 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2006 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2007 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2008 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2009 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2010 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2011 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2012 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2013 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2014 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2015 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2016 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |
| 14 | 2017 | 0 | 0 | 0 | 29,264 | 565 | 47,579 | ERR |

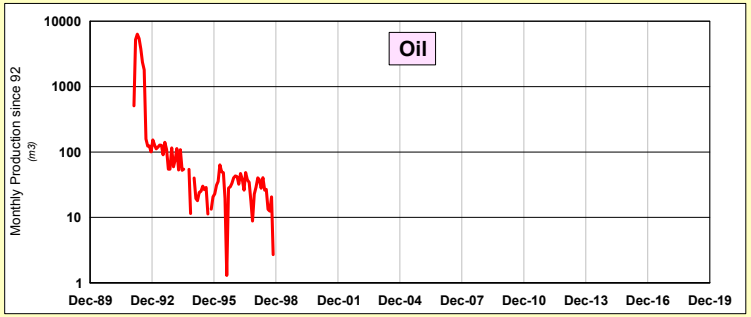
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

Revised May 27th 2004

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 700 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T006831**

Well Name: **Consumers' et al 33824, Mersea 5 - 13 - A**

Status: **Abandoned Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006831**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0000 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **2,264** | m3 | **0** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recoverable : | **2,264** | m3 | **0** | e3m3 | **0** | m3 |
| Peak Rate: | 2.7 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 0.0 | m3/d | ERR | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.7 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

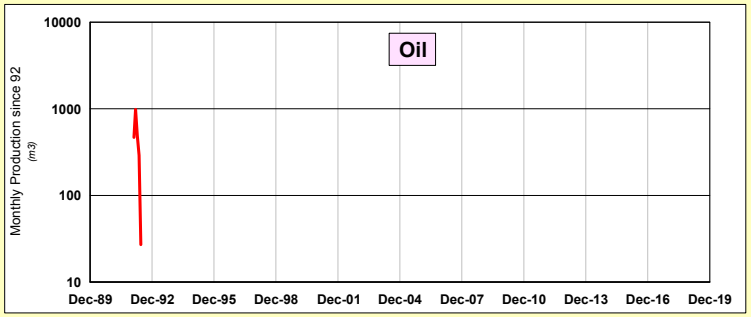
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1985 | 469 | 0 | 0 | 469 | 0 | 0 | 0 |
| 2 | 1986 | 987 | 0 | 0 | 1,456 | 0 | 0 | 0 |
| 3 | 1987 | 490 | 0 | 0 | 1,946 | 0 | 0 | 0 |
| 4 | 1988 | 291 | 0 | 0 | 2,237 | 0 | 0 | 0 |
| 5 | 1989 | 27 | 0 | 0 | 2,264 | 0 | 0 | 0 |
| 5 | 1990 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 1991 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 1992 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 1993 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 1994 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 1995 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 1996 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 1997 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 1998 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 1999 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2000 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2001 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2002 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2003 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2004 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2005 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2006 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2007 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2008 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2009 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2010 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2011 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2012 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2013 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2014 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2015 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2016 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |
| 5 | 2017 | 0 | 0 | 0 | 2,264 | 0 | 0 | ERR |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 700 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T006826**

Well Name: **Cons et al 33823, Mersea 1 - 12 - A**

Status: **Active Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006826**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.2370 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **2,032** | m3 | **0** | e3m3 | **21** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recoverable : | **2,032** | m3 | **0** | e3m3 | **21** | m3 |
| Peak Rate: | 1.8 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 1.1 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.8 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

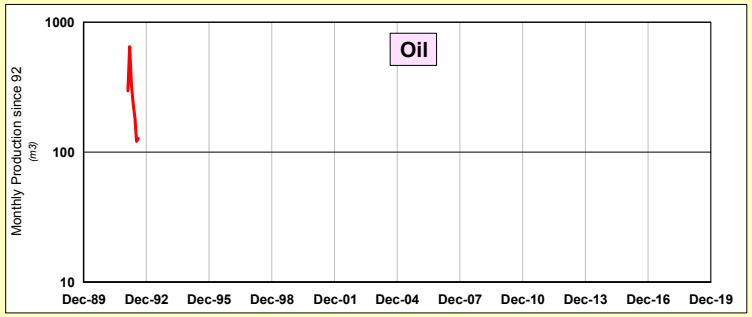
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1985 | 297 | 0 | 0 | 297 | 0 | 0 | 0 |
| 2 | 1986 | 649 | 0 | 0 | 946 | 0 | 0 | 0 |
| 3 | 1987 | 330 | 0 | 0 | 1,276 | 0 | 0 | 0 |
| 4 | 1988 | 236 | 0 | 0 | 1,512 | 0 | 0 | 0 |
| 5 | 1989 | 183 | 0 | 0 | 1,695 | 0 | 0 | 0 |
| 6 | 1990 | 121 | 0 | 0 | 1,816 | 0 | 0 | 0 |
| 7 | 1991 | 127 | 0 | 0 | 1,943 | 0 | 0 | 0 |
| 8 | 1992 | 89 | 0 | 21 | 2,032 | 0 | 21 | 0 |
| 8 | 1993 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 1994 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 1995 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 1996 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 1997 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 1998 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 1999 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2000 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2001 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2002 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2003 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2004 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2005 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2006 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2007 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2008 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2009 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2010 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2011 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2012 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2013 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2014 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2015 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2016 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |
| 8 | 2017 | 0 | 0 | 0 | 2,032 | 0 | 21 | ERR |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
***(since 1992)***

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T006825**

Well Name: **Cons et al 33822, Mersea 5 - 11 - I**

Status: **Active Well**

MNR Pool: **Hillman**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006825**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 24 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 1.5105 | m3 per m3 | 1.0727 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 44.9638 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **420** | m3/yr | **0** | e3m3/yr | **634** | m3/yr |
| Cumm to Date: | **24,800** | m3 | **199** | e3m3 | **8,948** | m3 |
| Remaining Recoverable: | **3,685** | m3 | **0** | e3m3 | **5,566** | m3 |
| Total Recoverable : | **28,485** | m3 | **199** | e3m3 | **14,514** | m3 |
| Peak Rate: | 13.3 | m3/d | 0.2 | e3m3/d | based on annual | |
| Peak Rate: | 4.8 | m3/d | 0.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 13.3 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 1.1 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 8% | | annually | | | |

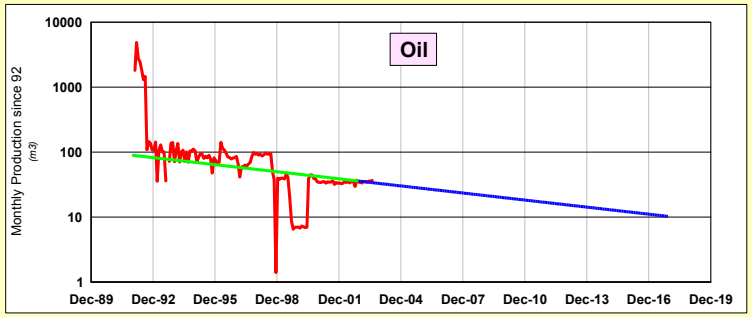
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1985 | 1,814 | 0 | 0 | 1,814 | 0 | 0 | 0 |
| 2 | 1986 | 4,869 | 0 | 0 | 6,684 | 0 | 0 | 0 |
| 3 | 1987 | 2,759 | 0 | 0 | 9,442 | 0 | 0 | 0 |
| 4 | 1988 | 2,447 | 0 | 0 | 11,889 | 0 | 0 | 0 |
| 5 | 1989 | 1,792 | 0 | 0 | 13,681 | 0 | 0 | 0 |
| 6 | 1990 | 1,308 | 0 | 0 | 14,990 | 0 | 0 | 0 |
| 7 | 1991 | 1,469 | 0 | 0 | 16,459 | 0 | 0 | 0 |
| 8 | 1992 | 1,262 | 0 | 798 | 17,721 | 0 | 798 | 0 |
| 9 | 1993 | 1,118 | 2 | 829 | 18,838 | 2 | 1,627 | 2 |
| 10 | 1994 | 1,084 | 0 | 842 | 19,923 | 2 | 2,469 | 0 |
| 11 | 1995 | 1,052 | 82 | 1,233 | 20,975 | 84 | 3,702 | 77 |
| 12 | 1996 | 828 | 43 | 1,118 | 21,803 | 127 | 4,820 | 52 |
| 13 | 1997 | 1,089 | 40 | 1,193 | 22,891 | 166 | 6,013 | 37 |
| 14 | 1998 | 489 | 33 | 825 | 23,380 | 199 | 6,838 | 67 |
| 15 | 1999 | 155 | 0 | 231 | 23,535 | 199 | 7,069 | 0 |
| 16 | 2000 | 435 | 0 | 638 | 23,970 | 199 | 7,707 | 0 |
| 17 | 2001 | 410 | 0 | 607 | 24,380 | 199 | 8,314 | 0 |
| 18 | 2002 | 420 | 0 | 634 | 24,800 | 199 | 8,948 | 0 |
| 19 | 2003 | 413 | 0 | 624 | 25,213 | 199 | 9,572 | 0 |
| 20 | 2004 | 380 | 0 | 574 | 25,593 | 199 | 10,146 | 0 |
| 21 | 2005 | 350 | 0 | 528 | 25,943 | 199 | 10,674 | 0 |
| 22 | 2006 | 322 | 0 | 486 | 26,264 | 199 | 11,160 | 0 |
| 23 | 2007 | 296 | 0 | 447 | 26,560 | 199 | 11,607 | 0 |
| 24 | 2008 | 272 | 0 | 411 | 26,832 | 199 | 12,018 | 0 |
| 25 | 2009 | 250 | 0 | 378 | 27,083 | 199 | 12,396 | 0 |
| 26 | 2010 | 230 | 0 | 348 | 27,313 | 199 | 12,744 | 0 |
| 27 | 2011 | 212 | 0 | 320 | 27,525 | 199 | 13,064 | 0 |
| 28 | 2012 | 195 | 0 | 295 | 27,720 | 199 | 13,359 | 0 |
| 29 | 2013 | 179 | 0 | 271 | 27,900 | 199 | 13,630 | 0 |
| 30 | 2014 | 165 | 0 | 249 | 28,065 | 199 | 13,879 | 0 |
| 31 | 2015 | 152 | 0 | 229 | 28,217 | 199 | 14,109 | 0 |
| 32 | 2016 | 140 | 0 | 211 | 28,356 | 199 | 14,320 | 0 |
| 33 | 2017 | 129 | 0 | 194 | 28,485 | 199 | 14,514 | 0 |

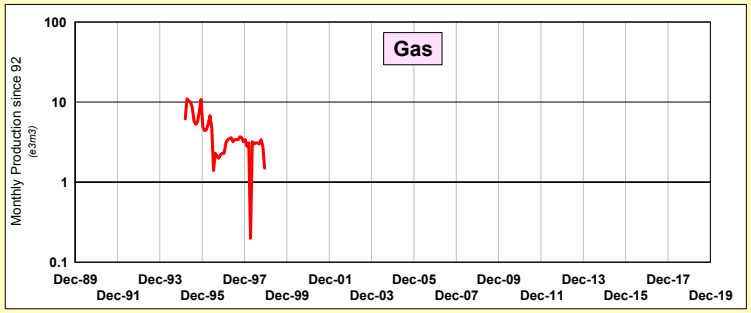
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

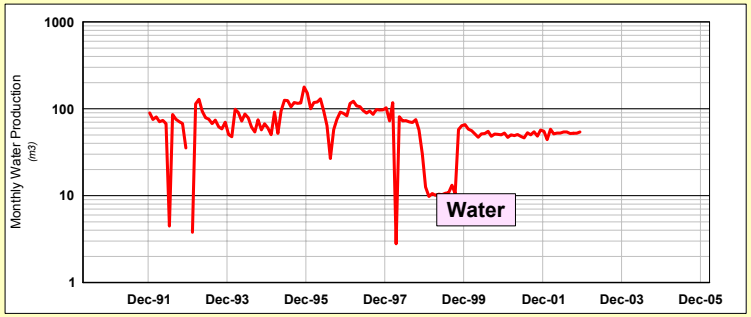
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 36 | m3/mo. |
| Decline Rate: | 8% | per year | Decline Rate: | 8% | per year |
| Decline Factor: | 0.0069 | per month | Decline Factor: | 0.0069 | per month |

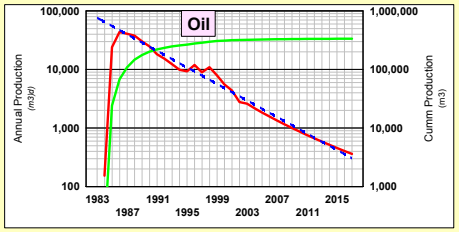


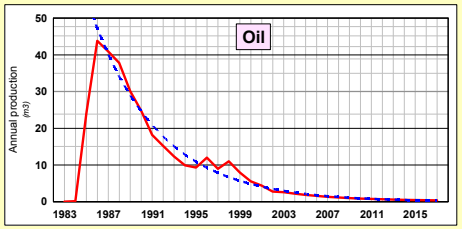



## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Hillman**
TGI Pool: **Hillman Pool**
TGI Field: **Hillman Field**
No of Wells: **17**




**15%** Pool Decline

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

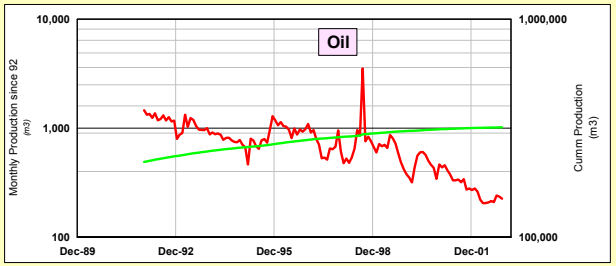
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 2,779 | m3/yr | 764 | e3m3/yr | 5,592 | m3/yr |
| Cumm to Date: | 319,291 | m3 | 13,503 | e3m3 | 139,756 | m3 |
| Remaining Recoverable: | 16,350 | m3 | 3,099 | e3m3 | 33,990 | m3 |
| Total Recoverable | 335,642 | m3 | 16,602 | e3m3 | 173,746 | m3 |
| Peak Rate: | | | | | | |
| Peak Rate: | | | | | | |
| Second Year Production: | | | | | | |
| Current Rate: | 8 | m3/d | 2 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

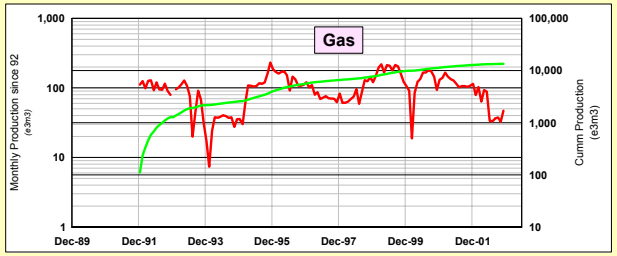
| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2 | 1 | 1984 | 154 | 0 | 0 | 154 | 0 | 0 | |
| 8 | 2 | 1985 | 24,110 | 0 | 0 | 24,264 | 0 | 0 | 0 |
| 12 | 3 | 1986 | 43,814 | 0 | 0 | 68,064 | 0 | 0 | 0 |
| 12 | 4 | 1987 | 40,898 | 0 | 0 | 108,976 | 0 | 0 | 0 |
| 12 | 5 | 1988 | 37,823 | 0 | 0 | 146,799 | 0 | 0 | 0 |
| 11 | 6 | 1989 | 30,081 | 0 | 0 | 176,880 | 0 | 0 | 0 |
| 10 | 7 | 1990 | 24,831 | 0 | 0 | 201,712 | 0 | 0 | 0 |
| 10 | 8 | 1991 | 18,202 | 0 | 0 | 219,913 | 0 | 0 | 0 |
| 10 | 9 | 1992 | 15,243 | 1,282 | 15,128 | 235,156 | 1,282 | 15,128 | 84 |
| 9 | 10 | 1993 | 12,311 | 879 | 14,611 | 247,467 | 2,162 | 29,739 | 71 |
| 8 | 11 | 1994 | 9,906 | 381 | 10,288 | 257,373 | 2,543 | 40,027 | 38 |
| 10 | 12 | 1995 | 9,312 | 1,303 | 12,962 | 266,685 | 3,846 | 52,989 | 140 |
| 10 | 13 | 1996 | 11,998 | 1,713 | 20,013 | 278,683 | 5,558 | 73,002 | 143 |
| 10 | 14 | 1997 | 8,979 | 993 | 19,182 | 287,663 | 6,551 | 92,184 | 111 |
| 12 | 15 | 1998 | 10,987 | 1,057 | 11,899 | 298,649 | 7,608 | 104,083 | 96 |
| 10 | 16 | 1999 | 7,934 | 2,156 | 13,069 | 306,583 | 9,764 | 117,152 | 272 |
| 10 | 17 | 2000 | 5,567 | 1,486 | 9,779 | 312,150 | 11,250 | 126,931 | 267 |
| 11 | 18 | 2001 | 4,362 | 1,489 | 7,233 | 316,512 | 12,739 | 134,164 | 341 |
| 10 | 19 | 2002 | 2,779 | 764 | 5,592 | 319,291 | 13,503 | 139,756 | 275 |
| | 20 | 2003 | 2,606 | 680 | 5,224 | 321,897 | 14,183 | 144,980 | 261 |
| | 21 | 2004 | 2,188 | 527 | 4,430 | 324,085 | 14,710 | 149,410 | 241 |
| | 22 | 2005 | 1,850 | 410 | 3,781 | 325,935 | 15,120 | 153,191 | 222 |
| | 23 | 2006 | 1,573 | 321 | 3,245 | 327,508 | 15,441 | 156,436 | 204 |
| | 24 | 2007 | 1,346 | 252 | 2,800 | 328,854 | 15,693 | 159,237 | 187 |
| | 25 | 2008 | 1,158 | 199 | 2,429 | 330,013 | 15,893 | 161,665 | 172 |
| | 26 | 2009 | 1,002 | 159 | 2,116 | 331,015 | 16,051 | 163,781 | 158 |
| | 27 | 2010 | 871 | 127 | 1,851 | 331,886 | 16,178 | 165,632 | 146 |
| | 28 | 2011 | 760 | 102 | 1,625 | 332,646 | 16,280 | 167,257 | 134 |
| | 29 | 2012 | 666 | 83 | 1,432 | 333,312 | 16,363 | 168,688 | 124 |
| | 30 | 2013 | 586 | 68 | 1,265 | 333,898 | 16,430 | 169,953 | 115 |
| | 31 | 2014 | 517 | 56 | 1,121 | 334,416 | 16,486 | 171,074 | 107 |
| | 32 | 2015 | 458 | 46 | 995 | 334,874 | 16,532 | 172,070 | 100 |
| | 33 | 2016 | 406 | 38 | 886 | 335,280 | 16,570 | 172,956 | 94 |
| | 34 | 2017 | 362 | 32 | 790 | 335,642 | 16,602 | 173,746 | 89 |
| | | To date: | 319,291 | 13,503 | 139,756 | | | | 0.1359 |

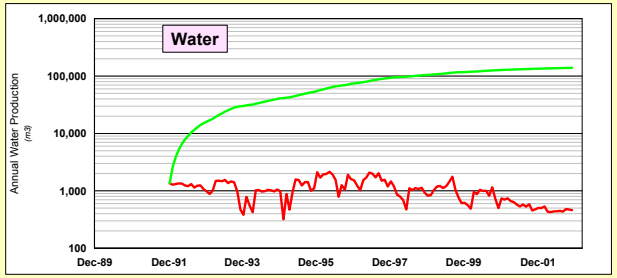
Revised April 27th 2004

## Monthly Production vs Month
*(1992 to 2002)*

42736



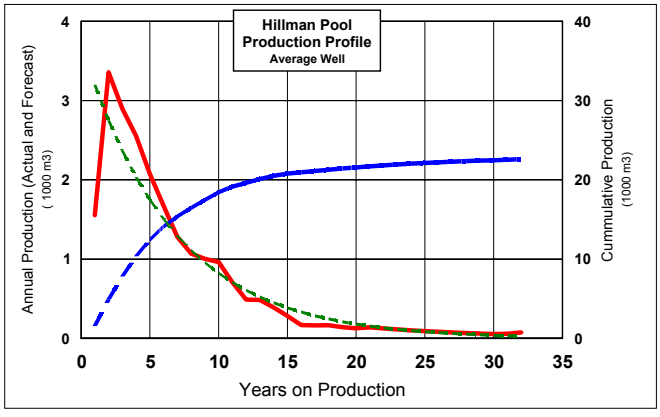
# Hillman

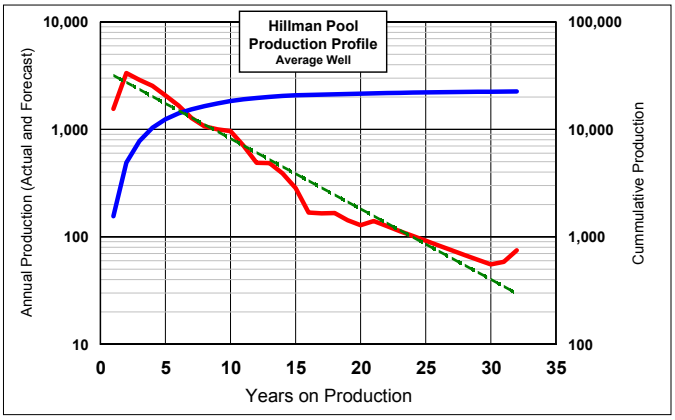
# Average Well

GOR: 0.1356
WOR: 1.3972

| Prod Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|
| 1 | 3,200 | 434 | 4,471 | 3,200 | 434 | 4,471 | 136 |
| 2 | 2,752 | 373 | 3,845 | 5,952 | 807 | 8,316 | 136 |
| 3 | 2,367 | 321 | 3,307 | 8,319 | 1,128 | 11,623 | 136 |
| 4 | 2,035 | 276 | 2,844 | 10,354 | 1,404 | 14,467 | 136 |
| 5 | 1,750 | 237 | 2,446 | 12,105 | 1,641 | 16,913 | 136 |
| 6 | 1,505 | 204 | 2,103 | 13,610 | 1,845 | 19,016 | 136 |
| 7 | 1,295 | 176 | 1,809 | 14,905 | 2,021 | 20,825 | 136 |
| 8 | 1,113 | 151 | 1,556 | 16,018 | 2,172 | 22,381 | 136 |
| 9 | 957 | 130 | 1,338 | 16,975 | 2,302 | 23,719 | 136 |
| 10 | 823 | 112 | 1,151 | 17,799 | 2,413 | 24,869 | 136 |
| 11 | 708 | 96 | 989 | 18,507 | 2,509 | 25,859 | 136 |
| 12 | 609 | 83 | 851 | 19,116 | 2,592 | 26,709 | 136 |
| 13 | 524 | 71 | 732 | 19,640 | 2,663 | 27,441 | 136 |
| 14 | 450 | 61 | 629 | 20,090 | 2,724 | 28,071 | 136 |
| 15 | 387 | 53 | 541 | 20,478 | 2,776 | 28,612 | 136 |
| 16 | 333 | 45 | 465 | 20,811 | 2,822 | 29,077 | 136 |
| 17 | 287 | 39 | 400 | 21,097 | 2,861 | 29,478 | 136 |
| 18 | 246 | 33 | 344 | 21,344 | 2,894 | 29,822 | 136 |
| 19 | 212 | 29 | 296 | 21,555 | 2,923 | 30,118 | 136 |
| 20 | 182 | 25 | 255 | 21,738 | 2,947 | 30,373 | 136 |
| 21 | 157 | 21 | 219 | 21,894 | 2,969 | 30,592 | 136 |
| 22 | 135 | 18 | 188 | 22,029 | 2,987 | 30,780 | 136 |
| 23 | 116 | 16 | 162 | 22,145 | 3,003 | 30,942 | 136 |
| 24 | 100 | 14 | 139 | 22,245 | 3,016 | 31,081 | 136 |
| 25 | 86 | 12 | 120 | 22,331 | 3,028 | 31,201 | 136 |
| 26 | 74 | 10 | 103 | 22,404 | 3,038 | 31,304 | 136 |
| 27 | 63 | 9 | 89 | 22,468 | 3,046 | 31,393 | 136 |
| 28 | 55 | 7 | 76 | 22,522 | 3,054 | 31,469 | 136 |
| 29 | 47 | 6 | 66 | 22,569 | 3,060 | 31,534 | 136 |
| 30 | 40 | 5 | 56 | 22,609 | 3,066 | 31,591 | 136 |
| 31 | 35 | 5 | 48 | 22,644 | 3,070 | 31,639 | 136 |
| 32 | 30 | 4 | 42 | 22,674 | 3,074 | 31,681 | 136 |
| | 22,674 | 3,074 | 31,681 | | | | |

| Average Well Oil | | |
|---|---|---|
| Start: | 3200 | m3 per year |
| Decline Rate | 14.0% | per year |
| Decline Factc | 0.0125 | per month |
| Recovery | 22,674 | m3 |



Well No.: **T006959**

Well Name: **Domego #2, Mersea 6 - 16 - B**

Status: **Suspended Well**

MNR Pool: **Mersea 6-16-B**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | ERR | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **1,510** | m3 | **0** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **1,510** | m3 | **0** | e3m3 | **0** | m3 |
| Peak Rate: | 1.1 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | | m3/d | | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.1 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1986 | 381 | 0 | 0 | 381 | 0 | 0 | 0 |
| 2 | 1987 | 391 | 0 | 0 | 772 | 0 | 0 | 0 |
| 3 | 1988 | 307 | 0 | 0 | 1,080 | 0 | 0 | 0 |
| 4 | 1989 | 215 | 0 | 0 | 1,294 | 0 | 0 | 0 |
| 5 | 1990 | 216 | 0 | 0 | 1,510 | 0 | 0 | 0 |
| 5 | 1991 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 1992 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 1993 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 1994 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 1995 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 1996 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 1997 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 1998 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 1999 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2000 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2001 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2002 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2003 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2004 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2005 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2006 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2007 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2008 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2009 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2010 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2011 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2012 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2013 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2014 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2015 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2016 | 0 | 0 | 0 | 1,510 | 0 | 0 | |
| 5 | 2017 | 0 | 0 | 0 | 1,510 | 0 | 0 | |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

Revised May 24th 2004

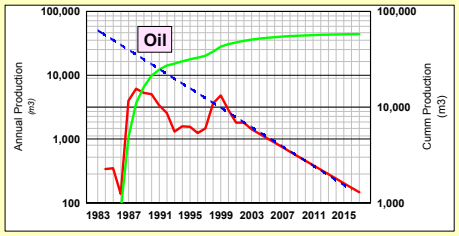
## Monthly Production vs Month + Forecast
*(since 1992)*

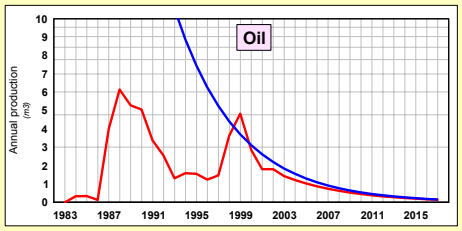
**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | 0.0 | |
| Start: | 0 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | **0.0000** | per month | Decline Factor: | **0.0000** | per month |

## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Mersea 2-15-B**
TGI Pool: **Hillman Pool**
TGI Field: **Hillman Field**
No of Wells: **5**




**16%** Pool Decline

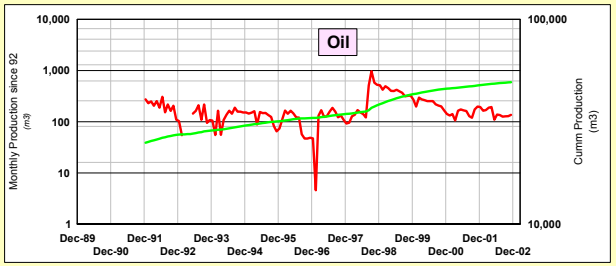
| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

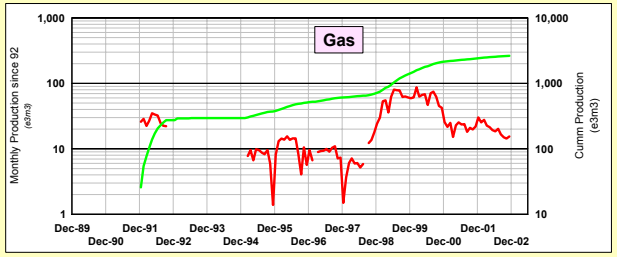
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 1,812 | m3/yr | 248 | e3m3/yr | 13,152 | m3/yr |
| Cumm to Date: | 49,371 | m3 | 2,644 | e3m3 | 124,332 | m3 |
| Remaining Recoverable: | 8,701 | m3 | 1,213 | e3m3 | 61,830 | m3 |
| Total Recovery: | 58,073 | m3 | 3,857 | e3m3 | 186,162 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 5 | m3/d | 1 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

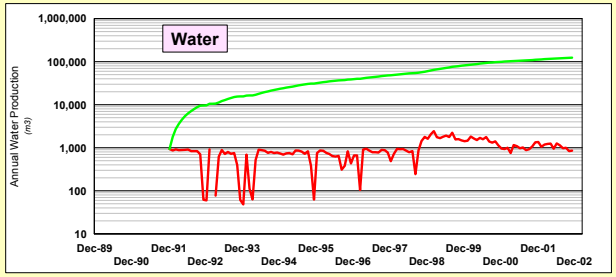
| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1984 | 339 | 0 | 0 | 339 | 0 | 0 | |
| 1 | 2 | 1985 | 349 | 0 | 0 | 687 | 0 | 0 | |
| 1 | 3 | 1986 | 138 | 0 | 0 | 825 | 0 | 0 | |
| 2 | 4 | 1987 | 4,001 | 0 | 0 | 4,826 | 0 | 0 | |
| 3 | 5 | 1988 | 6,150 | 0 | 0 | 10,976 | 0 | 0 | |
| 3 | 6 | 1989 | 5,290 | 0 | 0 | 16,266 | 0 | 0 | |
| 3 | 7 | 1990 | 5,059 | 0 | 0 | 21,325 | 0 | 0 | |
| 3 | 8 | 1991 | 3,381 | 0 | 0 | 24,706 | 0 | 0 | |
| 3 | 9 | 1992 | 2,556 | 275 | 9,604 | 27,262 | 275 | 9,604 | |
| 3 | 10 | 1993 | 1,311 | 21 | 6,041 | 28,573 | 296 | 15,646 | 16 |
| 3 | 11 | 1994 | 1,588 | 0 | 7,194 | 30,161 | 296 | 22,840 | 0 |
| 3 | 12 | 1995 | 1,554 | 78 | 8,199 | 31,715 | 374 | 31,039 | 50 |
| 4 | 13 | 1996 | 1,245 | 137 | 7,832 | 32,960 | 511 | 38,870 | 110 |
| 4 | 14 | 1997 | 1,469 | 99 | 9,078 | 34,429 | 610 | 47,948 | 67 |
| 4 | 15 | 1998 | 3,631 | 86 | 10,848 | 38,061 | 695 | 58,795 | 24 |
| 4 | 16 | 1999 | 4,834 | 687 | 21,992 | 42,894 | 1,382 | 80,787 | 142 |
| 4 | 17 | 2000 | 2,856 | 749 | 18,244 | 45,750 | 2,131 | 99,032 | 262 |
| 4 | 18 | 2001 | 1,809 | 265 | 12,149 | 47,559 | 2,396 | 111,180 | 147 |
| 3 | 19 | 2002 | 1,812 | 248 | 13,152 | 49,371 | 2,644 | 124,332 | 137 |
| | 20 | 2003 | 1,430 | 199 | 10,162 | 50,802 | 2,844 | 134,494 | 139 |
| | 21 | 2004 | 1,216 | 169 | 8,638 | 52,017 | 3,013 | 143,132 | 139 |
| | 22 | 2005 | 1,033 | 144 | 7,342 | 53,050 | 3,157 | 150,474 | 139 |
| | 23 | 2006 | 878 | 122 | 6,241 | 53,929 | 3,280 | 156,715 | 139 |
| | 24 | 2007 | 747 | 104 | 5,305 | 54,675 | 3,384 | 162,020 | 139 |
| | 25 | 2008 | 635 | 88 | 4,509 | 55,310 | 3,472 | 166,529 | 139 |
| | 26 | 2009 | 539 | 75 | 3,833 | 55,849 | 3,547 | 170,362 | 139 |
| | 27 | 2010 | 458 | 64 | 3,258 | 56,308 | 3,611 | 173,620 | 139 |
| | 28 | 2011 | 390 | 54 | 2,769 | 56,697 | 3,666 | 176,389 | 139 |
| | 29 | 2012 | 331 | 46 | 2,354 | 57,029 | 3,712 | 178,742 | 139 |
| | 30 | 2013 | 282 | 39 | 2,001 | 57,310 | 3,751 | 180,743 | 139 |
| | 31 | 2014 | 239 | 33 | 1,701 | 57,549 | 3,784 | 182,444 | 139 |
| | 32 | 2015 | 203 | 28 | 1,445 | 57,753 | 3,813 | 183,889 | 139 |
| | 33 | 2016 | 173 | 24 | 1,229 | 57,926 | 3,837 | 185,118 | 139 |
| | 34 | 2017 | 147 | 20 | 1,044 | 58,073 | 3,857 | 186,162 | 139 |
| | | To date: | 49,371 | 2,644 | 124,332 | | | | 0.1072 |

## Monthly Production vs Month
*(1992 to 2002)*

42736



Well No.: **T008782**

Well Name: **Talisman (Horiz. #1), Mersea 4 - 15 - B**

Status: **Active Well**

MNR Pool: **Mersea 2-15-B**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T008782**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 158 | m3 per m3 | 143 | last year | |
| 2002 Water/Oil ratio: | 7.2979 | m3 per m3 | 5.1226 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 32.5184 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,729** | m3/yr | **248** | e3m3/yr | **12,620** | m3/yr |
| Cumm to Date: | **12,649** | m3 | **1,993** | e3m3 | **64,796** | m3 |
| Remaining Recoverable: | **8,367** | m3 | **1,213** | e3m3 | **61,058** | m3 |
| Total Recovery: | **21,016** | m3 | **3,206** | e3m3 | **125,854** | m3 |
| Peak Rate: | 11.9 | m3/d | 2.1 | e3m3/d | based on annual | |
| Peak Rate: | 29.1 | m3/d | 2.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 11.9 | m3/d | 1.9 | e3m3/d | per day based on annual | |
| Current Rate: | 4.7 | m3/d | 0.7 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

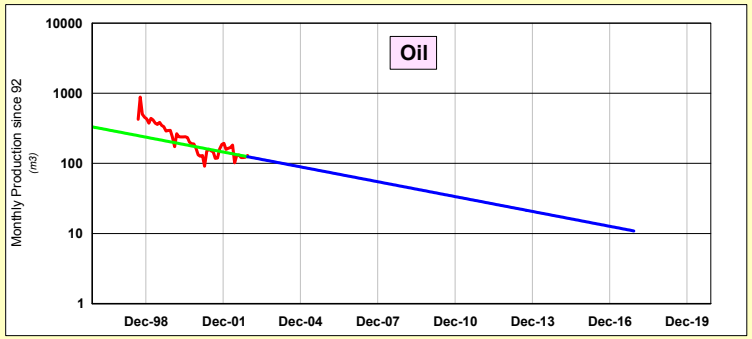
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1998 | 2,272 | 44 | 3,549 | 2,272 | 44 | 3,549 | 19 |
| 2 | 1999 | 4,354 | 687 | 19,588 | 6,626 | 731 | 23,137 | 158 |
| 3 | 2000 | 2,618 | 749 | 17,622 | 9,244 | 1,480 | 40,758 | 286 |
| 4 | 2001 | 1,676 | 265 | 11,418 | 10,920 | 1,745 | 52,176 | 158 |
| 5 | 2002 | 1,729 | 248 | 12,620 | 12,649 | 1,993 | 64,796 | 143 |
| 6 | 2003 | 1,375 | 199 | 10,035 | 14,024 | 2,192 | 74,831 | 145 |
| 7 | 2004 | 1,169 | 169 | 8,530 | 15,193 | 2,361 | 83,361 | 145 |
| 8 | 2005 | 994 | 144 | 7,251 | 16,186 | 2,506 | 90,612 | 145 |
| 9 | 2006 | 844 | 122 | 6,163 | 17,031 | 2,628 | 96,775 | 145 |
| 10 | 2007 | 718 | 104 | 5,238 | 17,749 | 2,732 | 102,013 | 145 |
| 11 | 2008 | 610 | 88 | 4,453 | 18,359 | 2,821 | 106,466 | 145 |
| 12 | 2009 | 519 | 75 | 3,785 | 18,877 | 2,896 | 110,251 | 145 |
| 13 | 2010 | 441 | 64 | 3,217 | 19,318 | 2,960 | 113,468 | 145 |
| 14 | 2011 | 375 | 54 | 2,735 | 19,693 | 3,014 | 116,202 | 145 |
| 15 | 2012 | 318 | 46 | 2,324 | 20,012 | 3,060 | 118,527 | 145 |
| 16 | 2013 | 271 | 39 | 1,976 | 20,282 | 3,099 | 120,502 | 145 |
| 17 | 2014 | 230 | 33 | 1,679 | 20,512 | 3,133 | 122,182 | 145 |
| 18 | 2015 | 196 | 28 | 1,427 | 20,708 | 3,161 | 123,609 | 145 |
| 19 | 2016 | 166 | 24 | 1,213 | 20,874 | 3,185 | 124,823 | 145 |
| 20 | 2017 | 141 | 20 | 1,031 | 21,016 | 3,206 | 125,854 | 145 |

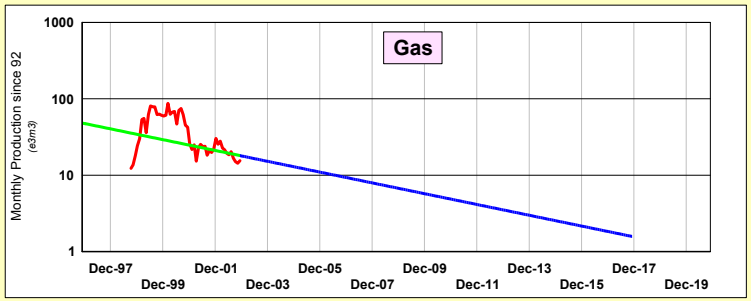
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

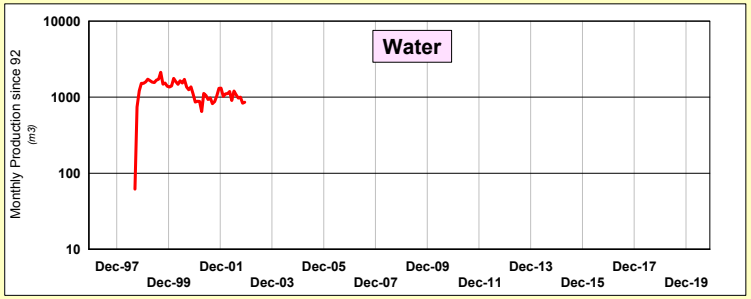
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 145 | m3/m3 | | | |
| Start: | 50 | e3m3 per month | Start: | 125 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T007507**

Well Name: **Telesis et al 34107, Mersea 4 - 16 - B**

Status: **Active Well**

MNR Pool: **Mersea 2-15-B**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T007507**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 17 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 2.3078 | m3 per m3 | 0.4568 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 26.9202 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **65** | m3/yr | **0** | e3m3/yr | **151** | m3/yr |
| Cumm to Date: | **4,507** | m3 | **41** | e3m3 | **1,093** | m3 |
| Remaining Recoverable: | **335** | m3 | **0** | e3m3 | **772** | m3 |
| Total Recovery: | **4,841** | m3 | **41** | e3m3 | **1,865** | m3 |
| Peak Rate: | 3.6 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 3.6 | m3/d | 0.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.6 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.2 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

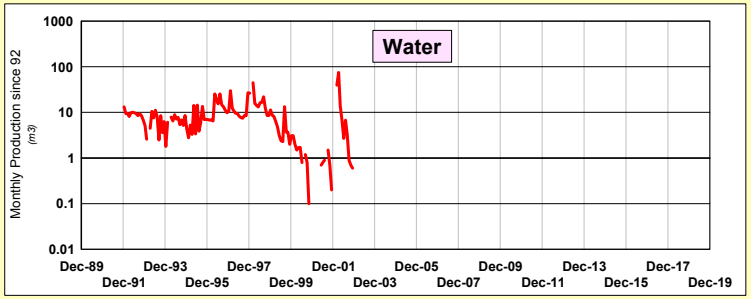
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 134 | 0 | 0 | 134 | 0 | 0 | 0 |
| 2 | 1990 | 1,298 | 0 | 0 | 1,432 | 0 | 0 | 0 |
| 3 | 1991 | 682 | 0 | 0 | 2,114 | 0 | 0 | 0 |
| 4 | 1992 | 534 | 41 | 113 | 2,648 | 41 | 113 | 76 |
| 5 | 1993 | 354 | 0 | 70 | 3,002 | 41 | 183 | 0 |
| 6 | 1994 | 341 | 0 | 72 | 3,343 | 41 | 255 | 0 |
| 7 | 1995 | 264 | 0 | 85 | 3,607 | 41 | 341 | 0 |
| 8 | 1996 | 292 | 0 | 162 | 3,899 | 41 | 502 | 0 |
| 9 | 1997 | 230 | 0 | 150 | 4,129 | 41 | 652 | 0 |
| 10 | 1998 | 211 | 0 | 199 | 4,340 | 41 | 851 | 0 |
| 11 | 1999 | 70 | 0 | 70 | 4,409 | 41 | 921 | 0 |
| 12 | 2000 | 24 | 0 | 16 | 4,433 | 41 | 937 | 0 |
| 13 | 2001 | 8 | 0 | 5 | 4,441 | 41 | 942 | 0 |
| 14 | 2002 | 65 | 0 | 151 | 4,507 | 41 | 1,093 | 0 |
| 15 | 2003 | 55 | 0 | 127 | 4,562 | 41 | 1,220 | 0 |
| 16 | 2004 | 47 | 0 | 108 | 4,608 | 41 | 1,328 | 0 |
| 17 | 2005 | 40 | 0 | 92 | 4,648 | 41 | 1,420 | 0 |
| 18 | 2006 | 34 | 0 | 78 | 4,682 | 41 | 1,497 | 0 |
| 19 | 2007 | 29 | 0 | 66 | 4,711 | 41 | 1,564 | 0 |
| 20 | 2008 | 24 | 0 | 56 | 4,735 | 41 | 1,620 | 0 |
| 21 | 2009 | 21 | 0 | 48 | 4,756 | 41 | 1,668 | 0 |
| 22 | 2010 | 18 | 0 | 41 | 4,774 | 41 | 1,709 | 0 |
| 23 | 2011 | 15 | 0 | 35 | 4,789 | 41 | 1,743 | 0 |
| 24 | 2012 | 13 | 0 | 29 | 4,801 | 41 | 1,773 | 0 |
| 25 | 2013 | 11 | 0 | 25 | 4,812 | 41 | 1,798 | 0 |
| 26 | 2014 | 9 | 0 | 21 | 4,821 | 41 | 1,819 | 0 |
| 27 | 2015 | 8 | 0 | 18 | 4,829 | 41 | 1,837 | 0 |
| 28 | 2016 | 7 | 0 | 15 | 4,836 | 41 | 1,852 | 0 |
| 29 | 2017 | 6 | 0 | 13 | 4,841 | 41 | 1,865 | 0 |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 5 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T007225**

Well Name: **Cons et al 34106, Mersea 1 - 15 - B**

Status: **Abandoned Well**

MNR Pool: **Mersea 2-15-B**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T007225**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 21.6477 | m3 per m3 | 1.5357 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **18** | m3/yr | **0** | e3m3/yr | **381** | m3/yr |
| Cumm to Date: | **12,482** | m3 | **0** | e3m3 | **7,873** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **12,482** | m3 | **0** | e3m3 | **7,873** | m3 |
| Peak Rate: | 7.3 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 4.7 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 5.8 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 50% | | annually | | | |

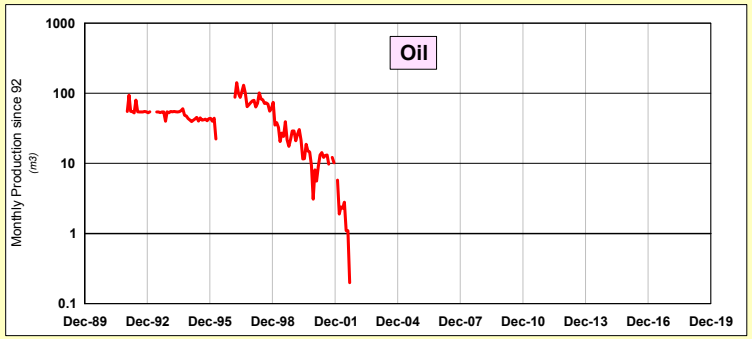
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 2,676 | 0 | 0 | 2,676 | 0 | 0 | 0 |
| 2 | 1989 | 2,118 | 0 | 0 | 4,794 | 0 | 0 | 0 |
| 3 | 1990 | 1,593 | 0 | 0 | 6,387 | 0 | 0 | 0 |
| 4 | 1991 | 968 | 0 | 0 | 7,355 | 0 | 0 | 0 |
| 5 | 1992 | 720 | 0 | 780 | 8,075 | 0 | 780 | 0 |
| 6 | 1993 | 527 | 0 | 582 | 8,601 | 0 | 1,362 | 0 |
| 7 | 1994 | 639 | 0 | 534 | 9,240 | 0 | 1,896 | 0 |
| 8 | 1995 | 507 | 0 | 537 | 9,747 | 0 | 2,433 | 0 |
| 9 | 1996 | 151 | 0 | 146 | 9,898 | 0 | 2,579 | 0 |
| 10 | 1997 | 960 | 0 | 1,449 | 10,858 | 0 | 4,027 | 0 |
| 11 | 1998 | 891 | 0 | 1,501 | 11,749 | 0 | 5,529 | 0 |
| 12 | 1999 | 382 | 0 | 899 | 12,131 | 0 | 6,427 | 0 |
| 13 | 2000 | 213 | 0 | 535 | 12,343 | 0 | 6,963 | 0 |
| 14 | 2001 | 121 | 0 | 530 | 12,464 | 0 | 7,492 | 0 |
| 15 | 2002 | 18 | 0 | 381 | 12,482 | 0 | 7,873 | 0 |
| 15 | 2003 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2004 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2005 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2006 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2007 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2008 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2009 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2010 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2011 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2012 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2013 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2014 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2015 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2016 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |
| 15 | 2017 | 0 | 0 | 0 | 12,482 | 0 | 7,873 | ERR |

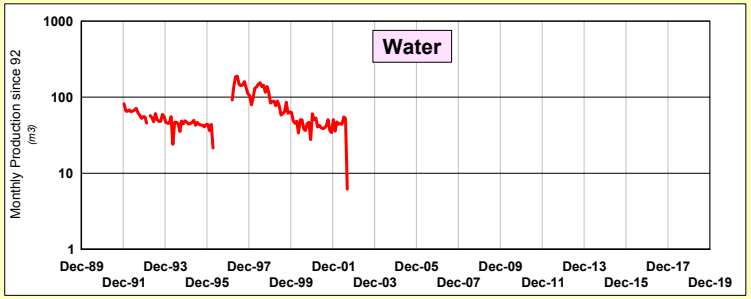
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 50% | per year | Decline Rate: | 50% | per year |
| Decline Factor: | **0.0561** | per month | Decline Factor: | **0.0561** | per month |



Well No.: **T007097**

Well Name: **Cons et al 34103, Mersea 2 - 15 - B**

Status: **Active Well**

MNR Pool: **Mersea 2-15-B**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T007097**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 143 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 11.7888 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 82.5398 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **18,498** | m3 | **611** | e3m3 | **50,433** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **18,498** | m3 | **611** | e3m3 | **50,433** | m3 |
| Peak Rate: | 10.6 | m3/d | 0.6 | e3m3/d | based on annual | |
| Peak Rate: | 5.4 | m3/d | 0.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 9.3 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

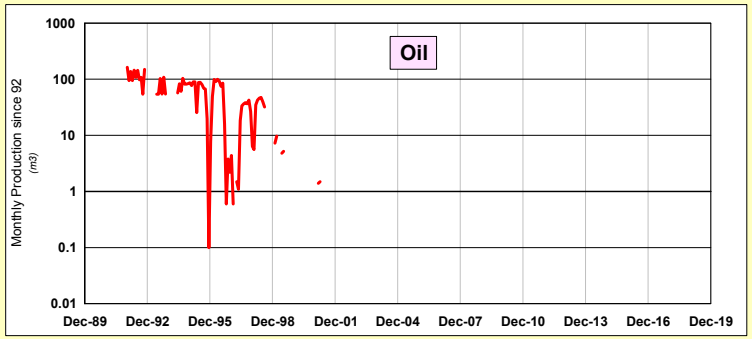
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1987 | 3,878 | 0 | 0 | 3,878 | 0 | 0 | 0 |
| 2 | 1988 | 3,406 | 0 | 0 | 7,283 | 0 | 0 | 0 |
| 3 | 1989 | 3,039 | 0 | 0 | 10,322 | 0 | 0 | 0 |
| 4 | 1990 | 2,167 | 0 | 0 | 12,489 | 0 | 0 | 0 |
| 5 | 1991 | 1,731 | 0 | 0 | 14,220 | 0 | 0 | 0 |
| 6 | 1992 | 1,302 | 235 | 8,712 | 15,523 | 235 | 8,712 | 180 |
| 7 | 1993 | 431 | 21 | 5,389 | 15,953 | 255 | 14,101 | 48 |
| 8 | 1994 | 608 | 0 | 6,588 | 16,561 | 255 | 20,688 | 0 |
| 9 | 1995 | 783 | 78 | 7,577 | 17,344 | 333 | 28,265 | 99 |
| 10 | 1996 | 623 | 137 | 7,420 | 17,967 | 470 | 35,685 | 220 |
| 11 | 1997 | 241 | 99 | 7,447 | 18,208 | 569 | 43,132 | 412 |
| 12 | 1998 | 257 | 42 | 5,599 | 18,464 | 611 | 48,730 | 162 |
| 13 | 1999 | 28 | 0 | 1,435 | 18,493 | 611 | 50,166 | 0 |
| 14 | 2000 | 2 | 0 | 72 | 18,494 | 611 | 50,237 | 187 |
| 15 | 2001 | 4 | 0 | 196 | 18,498 | 611 | 50,433 | 0 |
| 15 | 2002 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2003 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2004 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2005 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2006 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2007 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2008 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2009 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2010 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2011 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2012 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2013 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2014 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2015 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2016 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |
| 15 | 2017 | 0 | 0 | 0 | 18,498 | 611 | 50,433 | ERR |

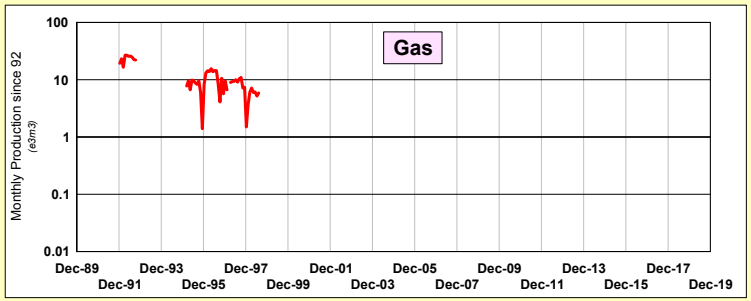
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

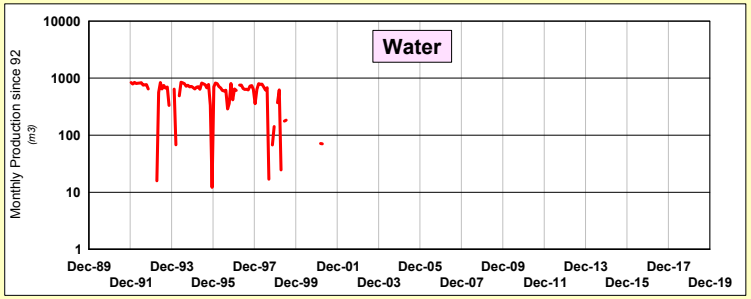
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 150 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | **0.0000** | per month | Decline Factor: | **0.0000** | per month |



Well No.: **T006369**

Well Name: **Consumers et al 33683, Mersea 1 - 15 - B**

Status: **Abandoned Well**

MNR Pool: **Mersea 2-15-B**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006369**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.6231 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **1,236** | m3 | **0** | e3m3 | **136** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **1,236** | m3 | **0** | e3m3 | **136** | m3 |
| Peak Rate: | 1.0 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 1.0 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

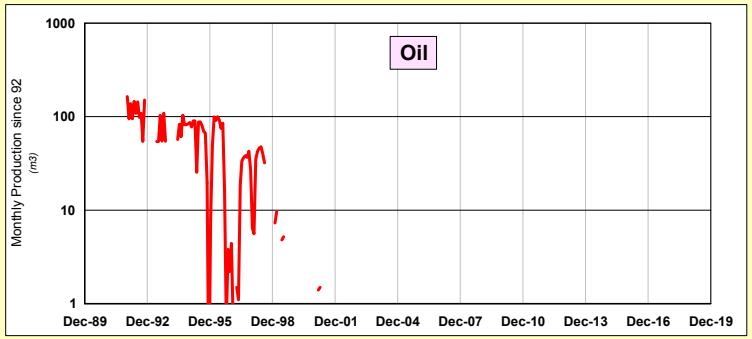
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1984 | 339 | 0 | 0 | 339 | 0 | 0 | 0 |
| 2 | 1985 | 349 | 0 | 0 | 687 | 0 | 0 | 0 |
| 3 | 1986 | 138 | 0 | 0 | 825 | 0 | 0 | 0 |
| 4 | 1987 | 123 | 0 | 0 | 948 | 0 | 0 | 0 |
| 5 | 1988 | 69 | 0 | 0 | 1,017 | 0 | 0 | 0 |
| 5 | 1989 | 0 | 0 | 0 | 1,017 | 0 | 0 | ERR |
| 5 | 1990 | 0 | 0 | 0 | 1,017 | 0 | 0 | ERR |
| 5 | 1991 | 0 | 0 | 0 | 1,017 | 0 | 0 | ERR |
| 5 | 1992 | 0 | 0 | 0 | 1,017 | 0 | 0 | ERR |
| 5 | 1993 | 0 | 0 | 0 | 1,017 | 0 | 0 | ERR |
| 5 | 1994 | 0 | 0 | 0 | 1,017 | 0 | 0 | ERR |
| 5 | 1995 | 0 | 0 | 0 | 1,017 | 0 | 0 | ERR |
| 6 | 1996 | 180 | 0 | 104 | 1,197 | 0 | 104 | 0 |
| 7 | 1997 | 39 | 0 | 32 | 1,236 | 0 | 136 | 0 |
| 7 | 1998 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 1999 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2000 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2001 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2002 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2003 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2004 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2005 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2006 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2007 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2008 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2009 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2010 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2011 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2012 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2013 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2014 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2015 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2016 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |
| 7 | 2017 | 0 | 0 | 0 | 1,236 | 0 | 136 | ERR |

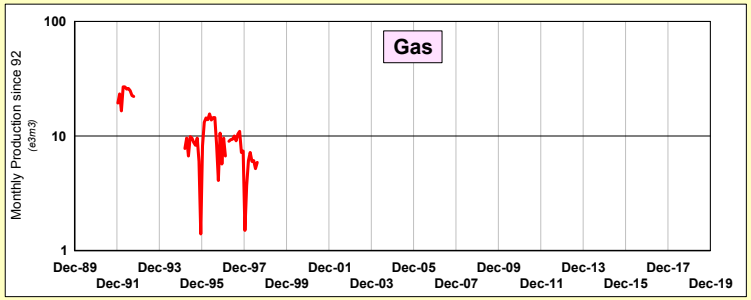
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

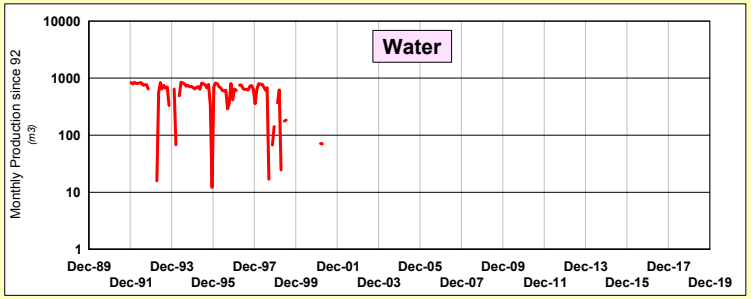
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 150 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | 0.0000 | per month | Decline Factor: | 0.0000 | per month |



Well No.: **T006986**

Well Name: **Domego Tiessen #3, Mersea 7 - 15 - A**

Status: **Suspended Well**

MNR Pool: **Mersea 7-15-A**

TGI Pool: **Hillman Pool**

TGI Field: **Hillman Field**

Well: **T006986** Mersea 7 15 A Pool

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | ERR | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **29** | m3 | **0** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **29** | m3 | **0** | e3m3 | **0** | m3 |
| Peak Rate: | 0.0 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | ERR | m3/d | ERR | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 18 | 0 | 0 | 18 | 0 | 0 | 0 |
| 2 | 1990 | 12 | 0 | 0 | 29 | 0 | 0 | 0 |
| 2 | 1991 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 1992 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 1993 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 1994 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 1995 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 1996 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 1997 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 1998 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 1999 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2000 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2001 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2002 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2003 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2004 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2005 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2006 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2007 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2008 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2009 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2010 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2011 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2012 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2013 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2014 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2015 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2016 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |
| 2 | 2017 | 0 | 0 | 0 | 29 | 0 | 0 | ERR |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

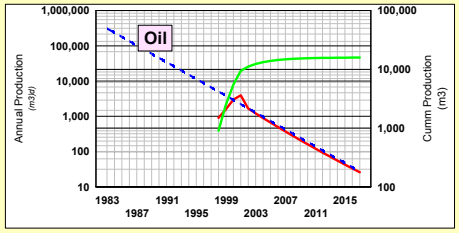
## Monthly Production vs Month + Forecast
*(since 1992)*

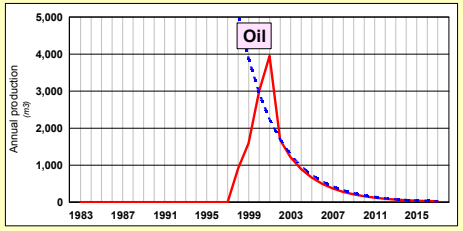
**Basis--->** **Oil** 0.0

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 150 | m3/m3 | | | |
| Start: | 50 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | **0.0000** | per month | Decline Factor: | **0.0000** | per month |

## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Mersea 1-16-I**
TGI Pool: **Mersea 1-16-I Pool**
TGI Field: **Hillman Field**
No of Wells: **4**
Well:



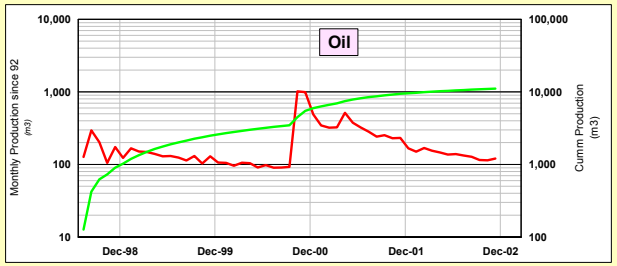

**24%** Pool Decline

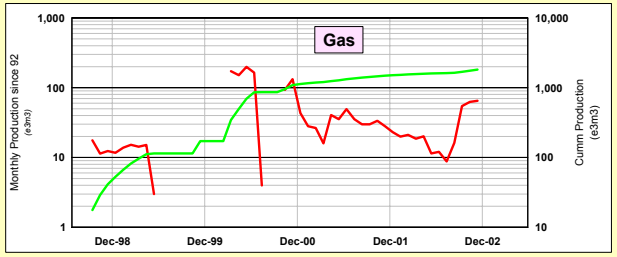
| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

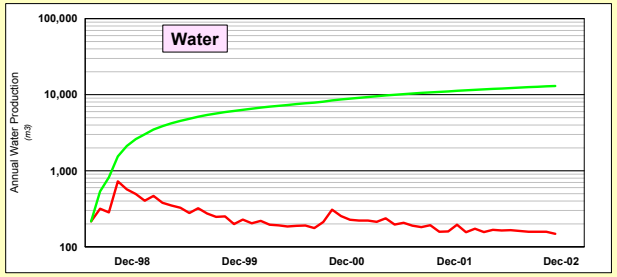
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 1,681 | m3/yr | 335 | e3m3/yr | 1,963 | m3/yr |
| Cumm to Date: | 11,139 | m3 | 1,824 | e3m3 | 13,046 | m3 |
| Remaining Recoverable: | 4,754 | m3 | 1,864 | e3m3 | 5,145 | m3 |
| Total recovery: | 15,893 | m3 | 3,687 | e3m3 | 18,191 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 5 | m3/d | 1 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1 | 1998 | 907 | 42 | 2,116 | 907 | 42 | 2,116 | 46 |
| 2 | 2 | 1999 | 1,598 | 131 | 4,001 | 2,504 | 172 | 6,117 | 82 |
| 3 | 3 | 2000 | 3,000 | 919 | 2,557 | 5,505 | 1,091 | 8,674 | 306 |
| 3 | 4 | 2001 | 3,953 | 397 | 2,409 | 9,457 | 1,489 | 11,083 | 101 |
| 4 | 5 | 2002 | 1,681 | 335 | 1,963 | 11,139 | 1,824 | 13,046 | 199 |
| | 6 | 2003 | 1,215 | 341 | 1,517 | 12,354 | 2,165 | 14,563 | 281 |
| | 7 | 2004 | 899 | 280 | 1,070 | 13,253 | 2,445 | 15,633 | 312 |
| | 8 | 2005 | 667 | 231 | 755 | 13,920 | 2,676 | 16,387 | 346 |
| | 9 | 2006 | 498 | 190 | 533 | 14,418 | 2,866 | 16,920 | 383 |
| | 10 | 2007 | 373 | 158 | 377 | 14,791 | 3,024 | 17,297 | 423 |
| | 11 | 2008 | 281 | 131 | 267 | 15,072 | 3,155 | 17,564 | 467 |
| | 12 | 2009 | 212 | 109 | 189 | 15,284 | 3,264 | 17,753 | 514 |
| | 13 | 2010 | 161 | 91 | 134 | 15,445 | 3,355 | 17,887 | 564 |
| | 14 | 2011 | 123 | 76 | 96 | 15,568 | 3,431 | 17,983 | 618 |
| | 15 | 2012 | 94 | 64 | 68 | 15,662 | 3,494 | 18,051 | 675 |
| | 16 | 2013 | 72 | 53 | 49 | 15,735 | 3,547 | 18,100 | 736 |
| | 17 | 2014 | 56 | 45 | 35 | 15,790 | 3,592 | 18,134 | 800 |
| | 18 | 2015 | 43 | 37 | 25 | 15,833 | 3,630 | 18,160 | 868 |
| | 19 | 2016 | 33 | 31 | 18 | 15,867 | 3,661 | 18,178 | 940 |
| `` | 20 | 2017 | 26 | 26 | 13 | 15,893 | 3,687 | 18,191 | 1,015 |
| | To date: | | 11,139 | 1,824 | 13,046 | | | | 0.1637 |

## Monthly Production vs Month
*(1992 to 2002)*



Well No.: **T009779**

Well Name: **Talisman No.2 (Horiz.#1), Mersea 2 - 17 - I**

Status: **Active Well**

MNR Pool: **Mersea 1-16-I**

TGI Pool: **Mersea 1-16-I Pool**

TGI Field: **Hillman Field**

Well: **T009779**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 121 | m3 per m3 | 97 | last year | |
| 2002 Water/Oil ratio: | 0.1859 | m3 per m3 | 0.3471 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.9182 | m3 per e3m3 | 2.8678 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **618** | m3/yr | **60** | e3m3/yr | **115** | m3/yr |
| Cumm to Date: | **1,669** | m3 | **202** | e3m3 | **579** | m3 |
| Remaining Recoverable: | **1,320** | m3 | **132** | e3m3 | **245** | m3 |
| Total Recovery: | **2,988** | m3 | **334** | e3m3 | **825** | m3 |

| | | | | | |
|---|---|---|---|---|---|
| Peak Rate: | 2.9 | m3/d | 0.4 | e3m3/d | based on annual |
| Peak Rate: | 7.6 | m3/d | 0.9 | e3m3/d | since '93 based on monthly |
| Second Year Production: | 1.7 | m3/d | 0.2 | e3m3/d | per day based on annual |
| Current Rate: | 1.7 | m3/d | 0.2 | e3m3/d | |
| Current decline rate: | 30% | | annually | | |

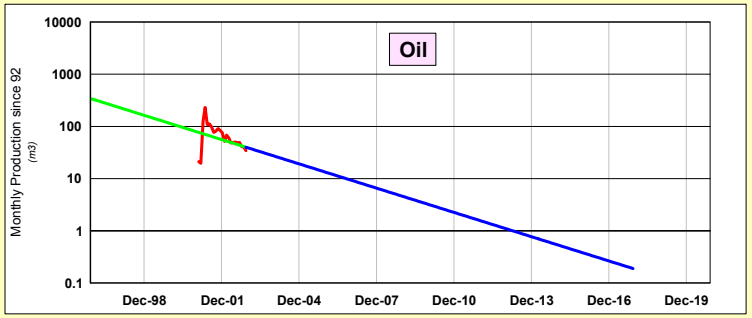
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 2001 | 1,051 | 142 | 464 | 1,051 | 142 | 464 | 135 |
| 2 | 2002 | 618 | 60 | 115 | 1,669 | 202 | 579 | 97 |
| 3 | 2003 | 398 | 40 | 74 | 2,067 | 242 | 653 | 100 |
| 4 | 2004 | 278 | 28 | 52 | 2,345 | 270 | 705 | 100 |
| 5 | 2005 | 195 | 19 | 36 | 2,540 | 289 | 741 | 100 |
| 6 | 2006 | 136 | 14 | 25 | 2,676 | 303 | 767 | 100 |
| 7 | 2007 | 96 | 10 | 18 | 2,772 | 312 | 784 | 100 |
| 8 | 2008 | 67 | 7 | 12 | 2,839 | 319 | 797 | 100 |
| 9 | 2009 | 47 | 5 | 9 | 2,886 | 324 | 806 | 100 |
| 10 | 2010 | 33 | 3 | 6 | 2,918 | 327 | 812 | 100 |
| 11 | 2011 | 23 | 2 | 4 | 2,941 | 329 | 816 | 100 |
| 12 | 2012 | 16 | 2 | 3 | 2,957 | 331 | 819 | 100 |
| 13 | 2013 | 11 | 1 | 2 | 2,969 | 332 | 821 | 100 |
| 14 | 2014 | 8 | 1 | 1 | 2,976 | 333 | 822 | 100 |
| 15 | 2015 | 6 | 1 | 1 | 2,982 | 333 | 823 | 100 |
| 16 | 2016 | 4 | 0 | 1 | 2,986 | 334 | 824 | 100 |
| 17 | 2017 | 3 | 0 | 1 | 2,988 | 334 | 825 | 100 |

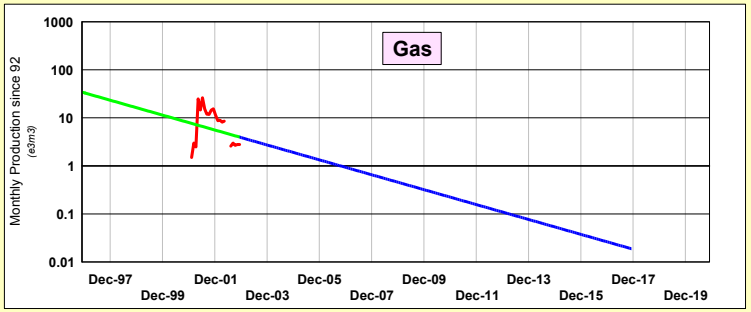
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

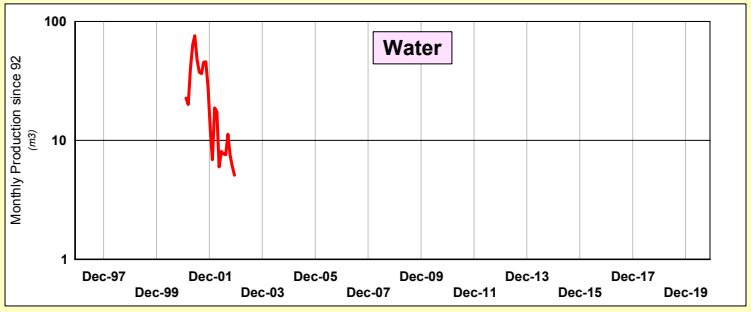
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 40 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | 0.0293 | per month | Decline Factor: | 0.0293 | per month |



Well No.: **T009542**

Well Name: **Talisman (Horiz.#1), Mersea 2 - 17 - I**

Status: **Active Well**

MNR Pool: **Mersea 1-16-I**

TGI Pool: **Mersea 1-16-I Pool**

TGI Field: **Hillman Field**

Well: **T009542**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 132 | m3 per m3 | 178 | last year | |
| 2002 Water/Oil ratio: | 0.1533 | m3 per m3 | 0.1380 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.8635 | m3 per e3m3 | 1.0467 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **631** | m3/yr | **112** | e3m3/yr | **97** | m3/yr |
| Cumm to Date: | **4,501** | m3 | **594** | e3m3 | **621** | m3 |
| Remaining Recoverable: | **2,313** | m3 | **393** | e3m3 | **355** | m3 |
| Total Recovery: | **6,815** | m3 | **987** | e3m3 | **976** | m3 |
| Peak Rate: | 5.6 | m3/d | 0.7 | e3m3/d | based on annual | |
| Peak Rate: | 30.6 | m3/d | 4.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 5.6 | m3/d | 0.7 | e3m3/d | per day based on annual | |
| Current Rate: | 1.7 | m3/d | 0.3 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

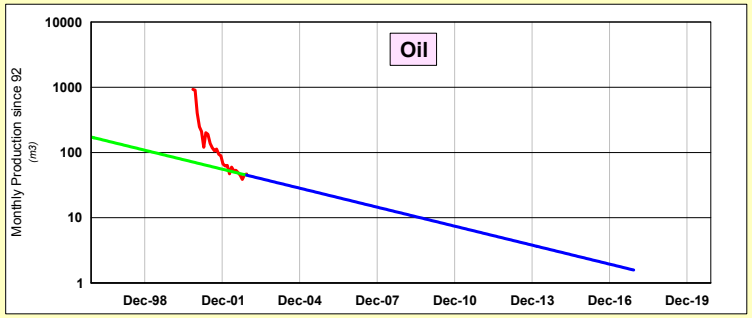
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 2000 | 1,836 | 226 | 225 | 1,836 | 226 | 225 | 123 |
| 2 | 2001 | 2,035 | 255 | 300 | 3,870 | 482 | 525 | 125 |
| 3 | 2002 | 631 | 112 | 97 | 4,501 | 594 | 621 | 178 |
| 4 | 2003 | 480 | 82 | 74 | 4,981 | 675 | 695 | 170 |
| 5 | 2004 | 384 | 65 | 59 | 5,365 | 740 | 754 | 170 |
| 6 | 2005 | 307 | 52 | 47 | 5,671 | 793 | 801 | 170 |
| 7 | 2006 | 246 | 42 | 38 | 5,917 | 834 | 838 | 170 |
| 8 | 2007 | 196 | 33 | 30 | 6,113 | 868 | 869 | 170 |
| 9 | 2008 | 157 | 27 | 24 | 6,270 | 894 | 893 | 170 |
| 10 | 2009 | 126 | 21 | 19 | 6,396 | 916 | 912 | 170 |
| 11 | 2010 | 101 | 17 | 15 | 6,497 | 933 | 927 | 170 |
| 12 | 2011 | 80 | 14 | 12 | 6,577 | 947 | 940 | 170 |
| 13 | 2012 | 64 | 11 | 10 | 6,642 | 958 | 950 | 170 |
| 14 | 2013 | 51 | 9 | 8 | 6,693 | 966 | 957 | 170 |
| 15 | 2014 | 41 | 7 | 6 | 6,734 | 973 | 964 | 170 |
| 16 | 2015 | 33 | 6 | 5 | 6,767 | 979 | 969 | 170 |
| 17 | 2016 | 26 | 4 | 4 | 6,793 | 983 | 973 | 170 |
| 18 | 2017 | 21 | 4 | 3 | 6,815 | 987 | 976 | 170 |

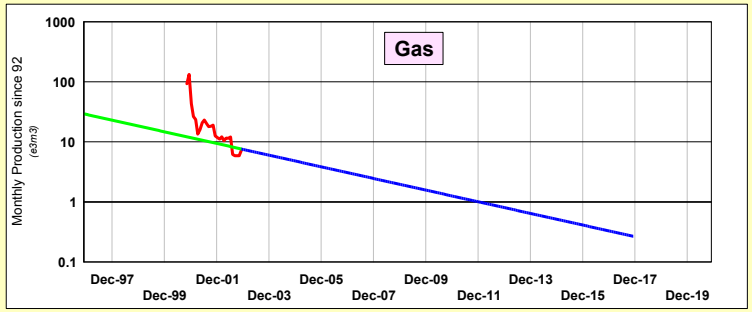
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

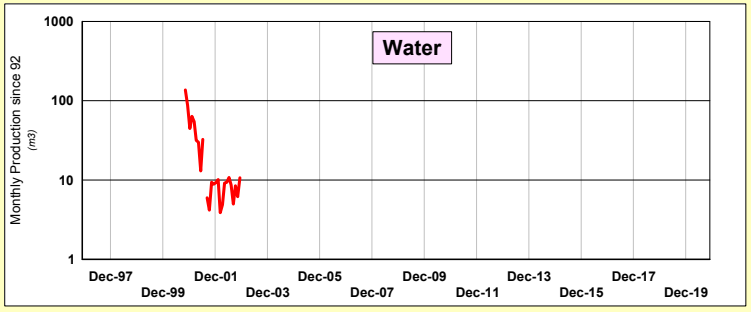
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 170 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 45 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008892**

Well Name: **ERR**

Status: **ERR**

MNR Pool: **Mersea 1-16-I**

TGI Pool: **ERR**

TGI Field: **ERR**

Well: **T008892**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | ERR | m3 per m3 | ERR | | last year |
| 2002 Water/Oil ratio: | ERR | m3 per m3 | ERR | | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **163** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **0** | m3 | **913** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **1,339** | e3m3 | **0** | m3 |
| Total Recovery: | **0** | m3 | **2,252** | e3m3 | **0** | m3 |
| Peak Rate: | 0.0 | m3/d | 1.9 | e3m3/d | based on annual | |
| Peak Rate: | 0.0 | m3/d | 6.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 1.9 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.4 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

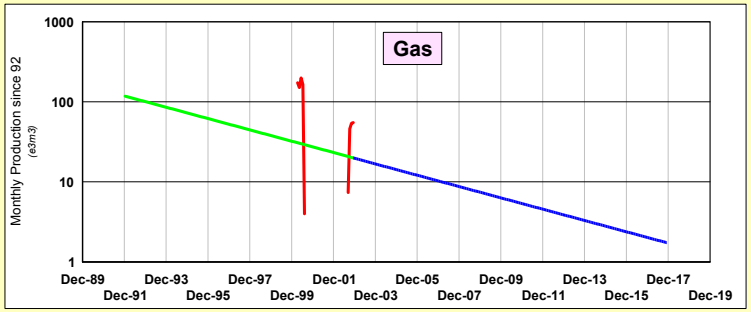
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1999 | 0 | 57 | 0 | 0 | 57 | 0 | |
| 2 | 2000 | 0 | 693 | 0 | 0 | 750 | 0 | |
| 2 | 2001 | 0 | 0 | 0 | 0 | 750 | 0 | |
| 3 | 2002 | 0 | 163 | 0 | 0 | 913 | 0 | |
| 4 | 2003 | 0 | 220 | 0 | 0 | 1,133 | 0 | |
| 5 | 2004 | 0 | 187 | 0 | 0 | 1,320 | 0 | |
| 6 | 2005 | 0 | 159 | 0 | 0 | 1,479 | 0 | |
| 7 | 2006 | 0 | 135 | 0 | 0 | 1,614 | 0 | |
| 8 | 2007 | 0 | 115 | 0 | 0 | 1,729 | 0 | |
| 9 | 2008 | 0 | 98 | 0 | 0 | 1,827 | 0 | |
| 10 | 2009 | 0 | 83 | 0 | 0 | 1,910 | 0 | |
| 11 | 2010 | 0 | 71 | 0 | 0 | 1,980 | 0 | |
| 12 | 2011 | 0 | 60 | 0 | 0 | 2,040 | 0 | |
| 13 | 2012 | 0 | 51 | 0 | 0 | 2,091 | 0 | |
| 14 | 2013 | 0 | 43 | 0 | 0 | 2,134 | 0 | |
| 15 | 2014 | 0 | 37 | 0 | 0 | 2,171 | 0 | |
| 16 | 2015 | 0 | 31 | 0 | 0 | 2,202 | 0 | |
| 17 | 2016 | 0 | 27 | 0 | 0 | 2,229 | 0 | |
| 18 | 2017 | 0 | 23 | 0 | 0 | 2,252 | 0 | |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
***(since 1992)***

**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100000000 | m3/m3 | | | |
| Start: | 20 | e3m3 per month | Start: | | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T008766**

Well Name: **Talisman (Horiz.#1), Mersea 1 - 16 - I**

Status: **Active Well**

MNR Pool: **Mersea 1-16-I**

TGI Pool: **Mersea 1-16-I Pool**

TGI Field: **Hillman Field**

Well: **T008766**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 23 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 4.0521 | m3 per m3 | 2.3841 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 103.0888 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **432** | m3/yr | **0** | e3m3/yr | **1,751** | m3/yr |
| Cumm to Date: | **4,968** | m3 | **115** | e3m3 | **11,845** | m3 |
| Remaining Recoverable: | **1,122** | m3 | **0** | e3m3 | **4,545** | m3 |
| Total Recovery: | **6,090** | m3 | **115** | e3m3 | **16,390** | m3 |
| Peak Rate: | 4.4 | m3/d | 0.2 | e3m3/d | based on annual | |
| Peak Rate: | 9.7 | m3/d | 0.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 4.4 | m3/d | 0.2 | e3m3/d | per day based on annual | |
| Current Rate: | 1.2 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

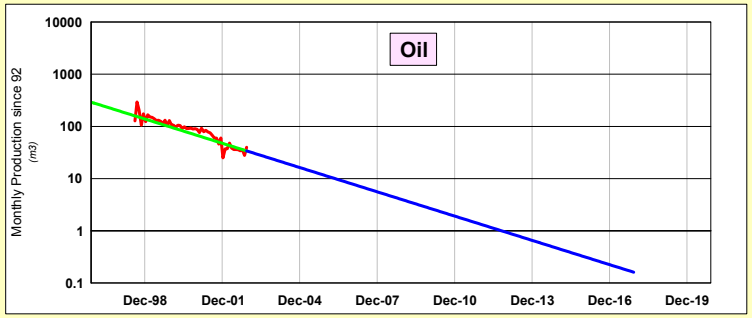
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1998 | 907 | 42 | 2,116 | 907 | 42 | 2,116 | 46 |
| 2 | 1999 | 1,598 | 73 | 4,001 | 2,504 | 115 | 6,117 | 46 |
| 3 | 2000 | 1,165 | 0 | 2,332 | 3,669 | 115 | 8,449 | |
| 4 | 2001 | 867 | 0 | 1,645 | 4,536 | 115 | 10,094 | |
| 5 | 2002 | 432 | 0 | 1,751 | 4,968 | 115 | 11,845 | |
| 6 | 2003 | 338 | 0 | 1,370 | 5,306 | 115 | 13,215 | |
| 7 | 2004 | 237 | 0 | 959 | 5,543 | 115 | 14,174 | |
| 8 | 2005 | 166 | 0 | 671 | 5,709 | 115 | 14,845 | |
| 9 | 2006 | 116 | 0 | 470 | 5,825 | 115 | 15,315 | |
| 10 | 2007 | 81 | 0 | 329 | 5,906 | 115 | 15,644 | |
| 11 | 2008 | 57 | 0 | 230 | 5,963 | 115 | 15,874 | |
| 12 | 2009 | 40 | 0 | 161 | 6,002 | 115 | 16,035 | |
| 13 | 2010 | 28 | 0 | 113 | 6,030 | 115 | 16,148 | |
| 14 | 2011 | 19 | 0 | 79 | 6,050 | 115 | 16,227 | |
| 15 | 2012 | 14 | 0 | 55 | 6,063 | 115 | 16,283 | |
| 16 | 2013 | 10 | 0 | 39 | 6,073 | 115 | 16,321 | |
| 17 | 2014 | 7 | 0 | 27 | 6,080 | 115 | 16,348 | |
| 18 | 2015 | 5 | 0 | 19 | 6,084 | 115 | 16,367 | |
| 19 | 2016 | 3 | 0 | 13 | 6,088 | 115 | 16,381 | |
| 20 | 2017 | 2 | 0 | 9 | 6,090 | 115 | 16,390 | |

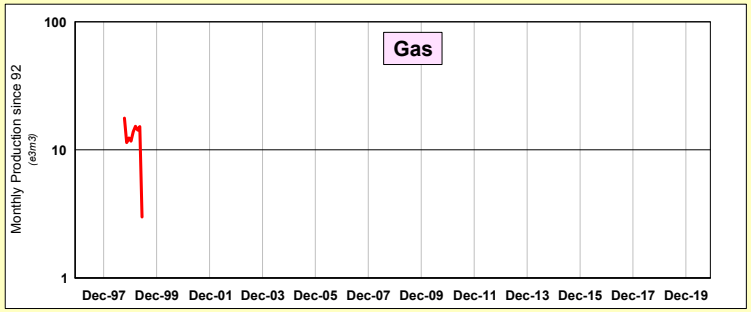
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

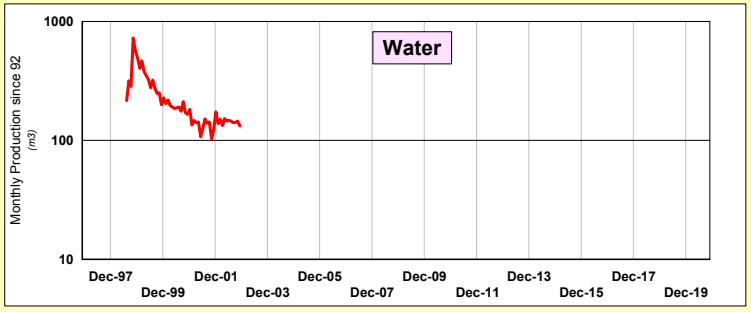
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 34 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | **0.0293** | per month | Decline Factor: | **0.0293** | per month |



Well No.: **T007631**

Well Name: **Telesis 34587, Mersea 4-14-I**

Status: **Abandoned Well**

MNR Pool: **Mersea 4-14-I**

TGI Pool: **Mersea 4-14-I Pool**

TGI Field: **Hillman Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 52 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 1.2271 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 23.5784 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **12,299** | m3 | **370** | e3m3 | **8,723** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total recovery: | **12,299** | m3 | **370** | e3m3 | **8,723** | m3 |
| Peak Rate: | 9.0 | m3/d | 0.4 | e3m3/d | based on annual | |
| Peak Rate: | 7.3 | m3/d | 0.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 9.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 0% | | annually | | | |

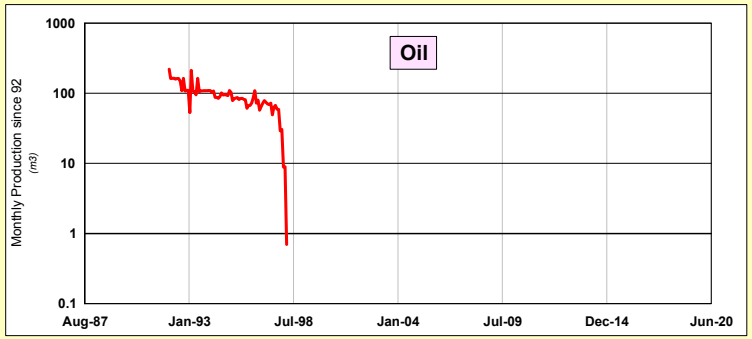
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1990 | 1,915 | 0 | 0 | 1,915 | 0 | 0 | 0 |
| 2 | 1991 | 3,275 | 0 | 0 | 5,190 | 0 | 0 | 0 |
| 3 | 1992 | 1,837 | 132 | 1,776 | 7,026 | 132 | 1,776 | 72 |
| 4 | 1993 | 1,387 | 92 | 1,422 | 8,414 | 224 | 3,198 | 66 |
| 5 | 1994 | 1,182 | 81 | 1,225 | 9,595 | 305 | 4,423 | 68 |
| 6 | 1995 | 1,069 | 65 | 1,037 | 10,664 | 370 | 5,460 | 61 |
| 7 | 1996 | 893 | 0 | 999 | 11,556 | 370 | 6,459 | 0 |
| 8 | 1997 | 724 | 0 | 1,751 | 12,280 | 370 | 8,210 | 0 |
| 9 | 1998 | 19 | 0 | 513 | 12,299 | 370 | 8,723 | 0 |
| 9 | 1999 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2000 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2001 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2002 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2003 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2004 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2005 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2006 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2007 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2008 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2009 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2010 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2011 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2012 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2013 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2014 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2015 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2016 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |
| 9 | 2017 | 0 | 0 | 0 | 12,299 | 370 | 8,723 | ERR |

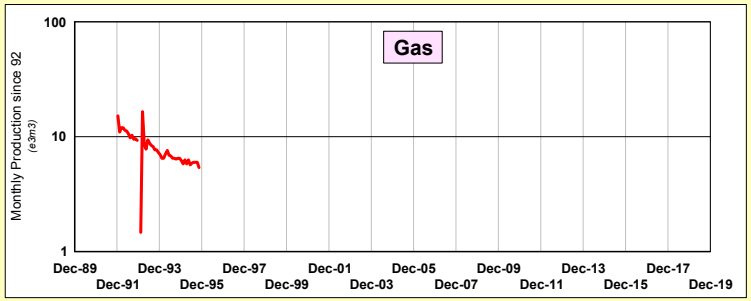
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

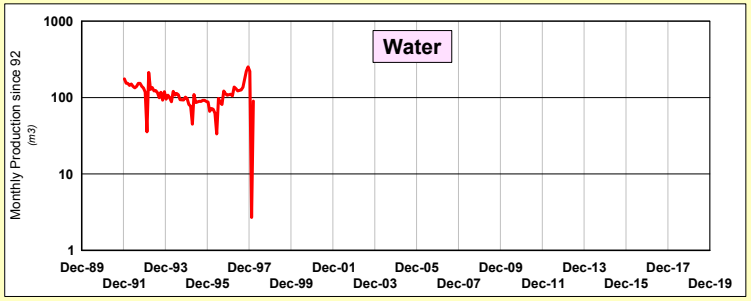
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 50 | m3/m3 | | | |
| Start: | 0 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 0% | per year | Decline Rate: | 0% | per year |
| Decline Factor: | **0.0000** | per month | Decline Factor: | **0.0000** | per month |



Well No.: **T008005**

Well Name: **Telesis et al 34612, Mersea 4 - 240 - STR**

Status: **Active Well**

MNR Pool: **Mersea 4-240-STR**

TGI Pool: **Mersea 4-240-STR Pool**

TGI Field: **Hillman Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 140 | m3 per m3 | 221 | last year | |
| 2002 Water/Oil ratio: | 1.2274 | m3 per m3 | 0.5955 | last 10 years | |
| 2002 Water/ Gas Ratio: | 5.5623 | m3 per e3m3 | 4.2504 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,030** | m3/yr | **227** | e3m3/yr | **1,264** | m3/yr |
| Cumm to Date: | **32,631** | m3 | **4,571** | e3m3 | **19,431** | m3 |
| Remaining Recoverable: | **8,104** | m3 | **1,783** | e3m3 | **9,947** | m3 |
| Total Recovery: | **40,735** | m3 | **6,354** | e3m3 | **29,377** | m3 |
| Peak Rate: | 21.2 | m3/d | 4.0 | e3m3/d | based on annual | |
| Peak Rate: | 33.4 | m3/d | 6.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 17.4 | m3/d | 1.5 | e3m3/d | per day based on annual | |
| Current Rate: | 2.8 | m3/d | 0.6 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

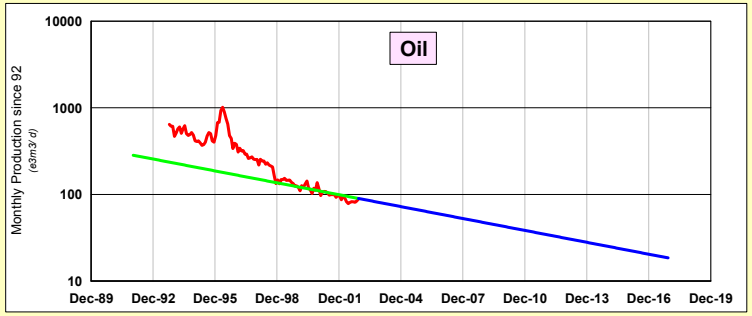
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 1,874 | 79 | 249 | 1,874 | 79 | 249 | 42 |
| 2 | 1994 | 6,346 | 564 | 1,305 | 8,220 | 643 | 1,554 | 89 |
| 3 | 1995 | 5,097 | 534 | 1,527 | 13,317 | 1,178 | 3,081 | 105 |
| 4 | 1996 | 7,735 | 1,448 | 4,643 | 21,052 | 2,626 | 7,724 | 187 |
| 5 | 1997 | 3,561 | 578 | 2,976 | 24,613 | 3,203 | 10,700 | 162 |
| 6 | 1998 | 2,610 | 315 | 2,063 | 27,223 | 3,518 | 12,763 | 121 |
| 7 | 1999 | 1,694 | 304 | 2,162 | 28,917 | 3,822 | 14,925 | 180 |
| 8 | 2000 | 1,456 | 258 | 1,769 | 30,373 | 4,080 | 16,694 | 177 |
| 9 | 2001 | 1,228 | 264 | 1,472 | 31,601 | 4,344 | 18,166 | 215 |
| 10 | 2002 | 1,030 | 227 | 1,264 | 32,631 | 4,571 | 19,431 | 221 |
| 11 | 2003 | 1,021 | 225 | 1,253 | 33,652 | 4,796 | 20,683 | 220 |
| 12 | 2004 | 919 | 202 | 1,127 | 34,570 | 4,998 | 21,810 | 220 |
| 13 | 2005 | 827 | 182 | 1,015 | 35,397 | 5,180 | 22,825 | 220 |
| 14 | 2006 | 744 | 164 | 913 | 36,141 | 5,344 | 23,738 | 220 |
| 15 | 2007 | 670 | 147 | 822 | 36,810 | 5,491 | 24,560 | 220 |
| 16 | 2008 | 603 | 133 | 740 | 37,413 | 5,623 | 25,300 | 220 |
| 17 | 2009 | 542 | 119 | 666 | 37,955 | 5,743 | 25,965 | 220 |
| 18 | 2010 | 488 | 107 | 599 | 38,444 | 5,850 | 26,564 | 220 |
| 19 | 2011 | 439 | 97 | 539 | 38,883 | 5,947 | 27,104 | 220 |
| 20 | 2012 | 395 | 87 | 485 | 39,278 | 6,034 | 27,589 | 220 |
| 21 | 2013 | 356 | 78 | 437 | 39,634 | 6,112 | 28,026 | 220 |
| 22 | 2014 | 320 | 70 | 393 | 39,954 | 6,183 | 28,419 | 220 |
| 23 | 2015 | 288 | 63 | 354 | 40,243 | 6,246 | 28,772 | 220 |
| 24 | 2016 | 259 | 57 | 318 | 40,502 | 6,303 | 29,091 | 220 |
| 25 | 2017 | 233 | 51 | 287 | 40,735 | 6,354 | 29,377 | 220 |

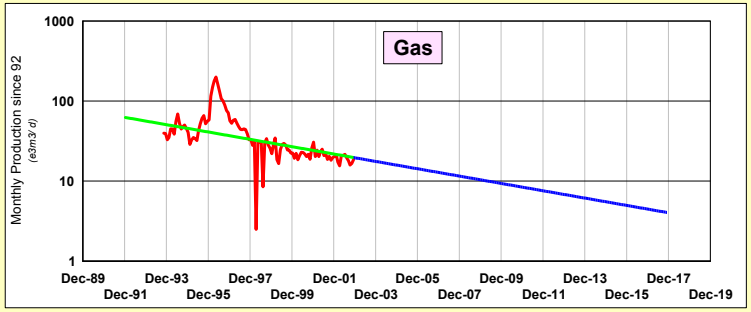
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

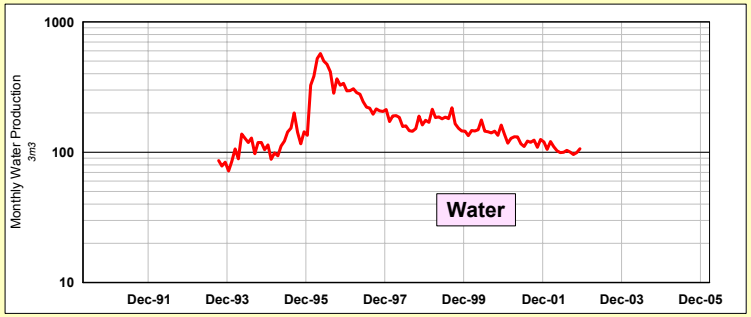
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil** 85.8

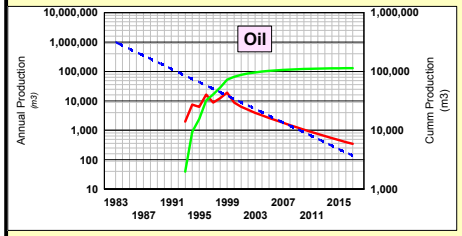
| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 220 | m3/m3 | | | |
| Start: | 50 | e3m3 per month | Start: | 90 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |

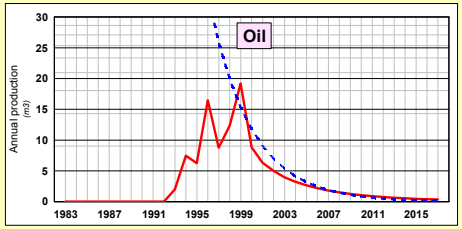


## Annual & Cumulative Production
*(since 1983)*




**23%** Pool Decline

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

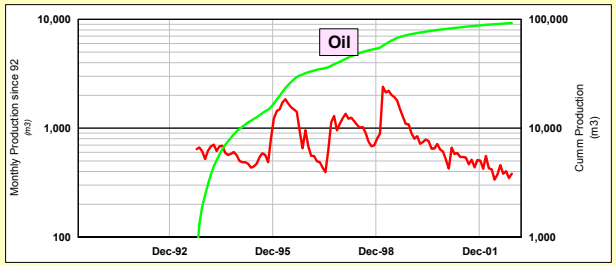
MNR Pool: **Mersea 4-240-STR**
TGI Pool: **Mersea 4-240-STR Pool**
TGI Field: **Hillman Field**
No of Wells: **5**
Well:

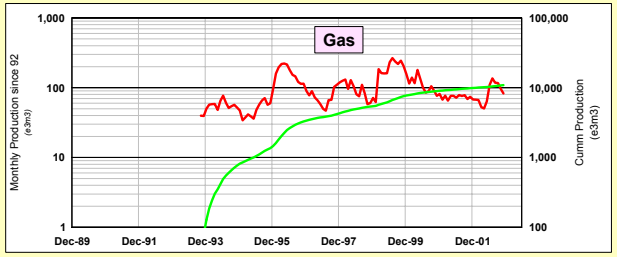
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 5,018 | m3/yr | 1,032 | e3m3/yr | 12,325 | m3/yr |
| Cumm to Date: | 92,714 | m3 | 10,909 | e3m3 | 160,695 | m3 |
| Remaining Recoverable: | 21,782 | m3 | 4,739 | e3m3 | 50,413 | m3 |
| Total recovery: | 114,495 | m3 | 15,647 | e3m3 | 211,108 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 14 | m3/d | 3 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

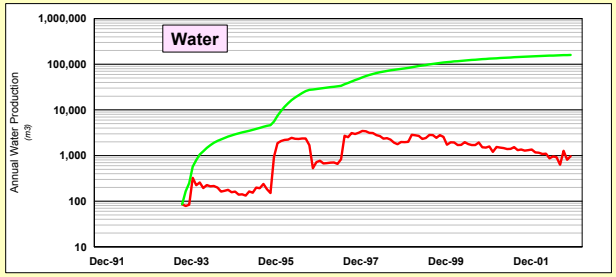
| Wells on Production | Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2 | 1 | 1993 | 1,979 | 97 | 502 | 1,979 | 97 | 502 | 49 |
| 2 | 2 | 1994 | 7,477 | 681 | 2,317 | 9,456 | 777 | 2,820 | 91 |
| 4 | 3 | 1995 | 6,261 | 590 | 2,789 | 15,717 | 1,367 | 5,608 | 94 |
| 4 | 4 | 1996 | 16,481 | 1,940 | 23,217 | 32,198 | 3,307 | 28,825 | 118 |
| 4 | 5 | 1997 | 8,781 | 898 | 19,945 | 40,979 | 4,205 | 48,770 | 102 |
| 4 | 6 | 1998 | 12,350 | 1,177 | 31,325 | 53,329 | 5,382 | 80,095 | 95 |
| 4 | 7 | 1999 | 19,193 | 2,209 | 30,184 | 72,522 | 7,591 | 110,279 | 115 |
| 4 | 8 | 2000 | 8,834 | 1,391 | 21,186 | 81,356 | 8,982 | 131,464 | 157 |
| 4 | 9 | 2001 | 6,340 | 894 | 16,906 | 87,696 | 9,876 | 148,371 | 141 |
| 5 | 10 | 2002 | 5,018 | 1,032 | 12,325 | 92,714 | 10,909 | 160,695 | 206 |
| | 11 | 2003 | 3,971 | 918 | 9,690 | 96,685 | 11,827 | 170,385 | 231 |
| | 12 | 2004 | 3,247 | 734 | 7,863 | 99,932 | 12,561 | 178,248 | 226 |
| | 13 | 2005 | 2,665 | 591 | 6,393 | 102,597 | 13,152 | 184,641 | 222 |
| | 14 | 2006 | 2,197 | 478 | 5,208 | 104,794 | 13,630 | 189,850 | 218 |
| | 15 | 2007 | 1,819 | 390 | 4,252 | 106,613 | 14,020 | 194,102 | 214 |
| | 16 | 2008 | 1,512 | 320 | 3,480 | 108,125 | 14,339 | 197,582 | 211 |
| | 17 | 2009 | 1,262 | 264 | 2,855 | 109,387 | 14,603 | 200,437 | 209 |
| | 18 | 2010 | 1,059 | 219 | 2,348 | 110,446 | 14,822 | 202,785 | 207 |
| | 19 | 2011 | 892 | 183 | 1,937 | 111,337 | 15,005 | 204,722 | 205 |
| | 20 | 2012 | 754 | 154 | 1,602 | 112,092 | 15,159 | 206,324 | 204 |
| | 21 | 2013 | 641 | 130 | 1,329 | 112,732 | 15,290 | 207,653 | 203 |
| | 22 | 2014 | 546 | 111 | 1,106 | 113,278 | 15,400 | 208,759 | 203 |
| | 23 | 2015 | 468 | 95 | 924 | 113,746 | 15,495 | 209,683 | 203 |
| | 24 | 2016 | 402 | 82 | 774 | 114,148 | 15,577 | 210,457 | 203 |
| | 25 | 2017 | 347 | 70 | 651 | 114,495 | 15,647 | 211,108 | 203 |
| | | To date: | 92,714 | 10,909 | 160,695 | | | | 0.1177 |

## Monthly Production vs Month
*(1992 to 2002)*

42736



Well No.: **T010465**

Well Name: **TLM No. 2 (Horiz.#1), Mersea 7 - 6 - IV**

Status: **Active Well**

MNR Pool: **Mersea 4-240-STR**

TGI Pool: **Mersea 4-240-STR Pool**

TGI Field: **Hillman Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 683 | m3 per m3 | 683 | last year | |
| 2002 Water/Oil ratio: | 0.3896 | m3 per m3 | 0.3896 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.5708 | m3 per e3m3 | 0.5708 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **403** | m3/yr | **275** | e3m3/yr | **157** | m3/yr |
| Cumm to Date: | **403** | m3 | **275** | e3m3 | **157** | m3 |
| Remaining Recoverable: | **2,237** | m3 | **1,566** | e3m3 | **871** | m3 |
| Total Recovery: | **2,639** | m3 | **1,840** | e3m3 | **1,028** | m3 |
| Peak Rate: | 1.6 | m3/d | 0.8 | e3m3/d | based on annual | |
| Peak Rate: | 3.4 | m3/d | 2.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.6 | m3/d | 0.8 | e3m3/d | per day based on annual | |
| Current Rate: | 1.1 | m3/d | 0.8 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

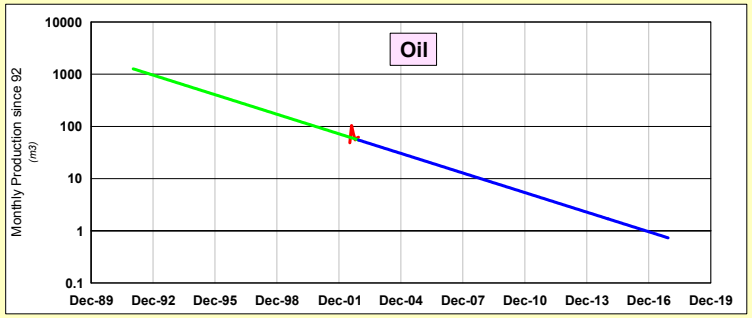
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2001 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2002 | 403 | 275 | 157 | 403 | 275 | 157 | 683 |
| 2 | 2003 | 567 | 397 | 221 | 969 | 672 | 378 | 700 |
| 3 | 2004 | 425 | 298 | 166 | 1,394 | 969 | 543 | 700 |
| 4 | 2005 | 319 | 223 | 124 | 1,713 | 1,192 | 667 | 700 |
| 5 | 2006 | 239 | 167 | 93 | 1,952 | 1,360 | 761 | 700 |
| 6 | 2007 | 179 | 126 | 70 | 2,132 | 1,485 | 831 | 700 |
| 7 | 2008 | 134 | 94 | 52 | 2,266 | 1,579 | 883 | 700 |
| 8 | 2009 | 101 | 71 | 39 | 2,367 | 1,650 | 922 | 700 |
| 9 | 2010 | 76 | 53 | 29 | 2,443 | 1,703 | 952 | 700 |
| 10 | 2011 | 57 | 40 | 22 | 2,499 | 1,743 | 974 | 700 |
| 11 | 2012 | 43 | 30 | 17 | 2,542 | 1,772 | 990 | 700 |
| 12 | 2013 | 32 | 22 | 12 | 2,574 | 1,795 | 1,003 | 700 |
| 13 | 2014 | 24 | 17 | 9 | 2,598 | 1,811 | 1,012 | 700 |
| 14 | 2015 | 18 | 13 | 7 | 2,616 | 1,824 | 1,019 | 700 |
| 15 | 2016 | 13 | 9 | 5 | 2,629 | 1,833 | 1,024 | 700 |
| 16 | 2017 | 10 | 7 | 4 | 2,639 | 1,840 | 1,028 | 700 |

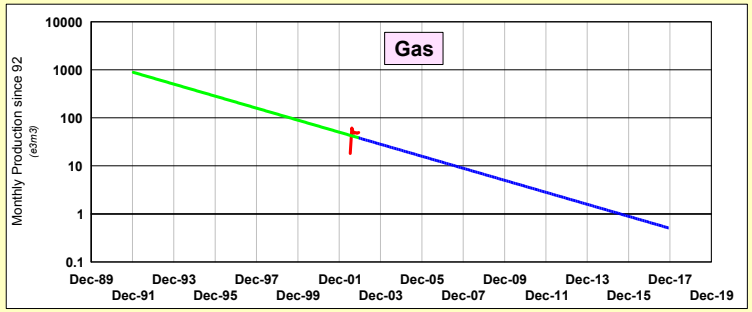
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

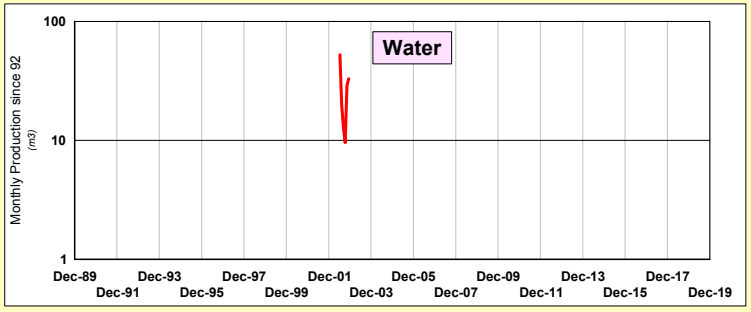
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 700 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 55 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T008378**

Well Name: **Pembina et al 2 (Horiz. #1), Mersea 6 - 243 - NTR**

Status: **Active Well**

MNR Pool: **Mersea 4-240-STR**

TGI Pool: **Mersea 4-240-STR Pool**

TGI Field: **Hillman Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 92 | m3 per m3 | 86 | last year | |
| 2002 Water/Oil ratio: | 0.8510 | m3 per m3 | 0.6127 | last 10 years | |
| 2002 Water/ Gas Ratio: | 9.8747 | m3 per e3m3 | 6.6802 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **2,583** | m3/yr | **223** | e3m3/yr | **2,198** | m3/yr |
| Cumm to Date: | **24,769** | m3 | **2,272** | e3m3 | **15,176** | m3 |
| Remaining Recoverable: | **7,711** | m3 | **578** | e3m3 | **6,562** | m3 |
| Total Recovery: | **32,480** | m3 | **2,850** | e3m3 | **21,738** | m3 |
| Peak Rate: | 35.1 | m3/d | 3.1 | e3m3/d | based on annual | |
| Peak Rate: | 54.1 | m3/d | 5.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 7.1 | m3/d | 0.6 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

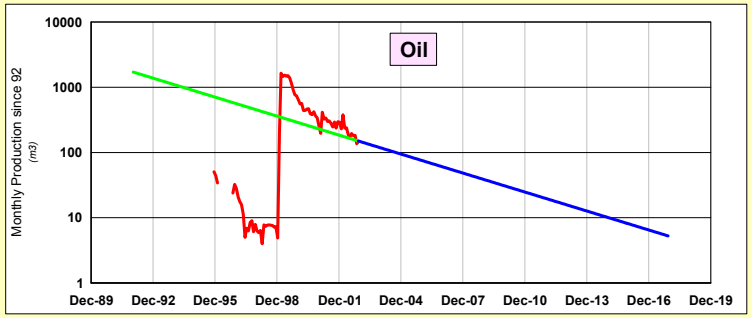
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1995 | 51 | 0 | 8 | 51 | 0 | 8 | 0 |
| 2 | 1996 | 135 | 13 | 17 | 186 | 13 | 25 | 97 |
| 3 | 1997 | 144 | 60 | 42 | 329 | 73 | 66 | 419 |
| 4 | 1998 | 83 | 10 | 14 | 412 | 84 | 81 | 125 |
| 5 | 1999 | 12,803 | 1,144 | 5,294 | 13,215 | 1,227 | 5,375 | 89 |
| 6 | 2000 | 5,480 | 580 | 4,733 | 18,695 | 1,807 | 10,107 | 106 |
| 7 | 2001 | 3,491 | 243 | 2,871 | 22,186 | 2,049 | 12,978 | 69 |
| 8 | 2002 | 2,583 | 223 | 2,198 | 24,769 | 2,272 | 15,176 | 86 |
| 9 | 2003 | 1,598 | 120 | 1,360 | 26,367 | 2,392 | 16,536 | 75 |
| 10 | 2004 | 1,279 | 96 | 1,088 | 27,646 | 2,488 | 17,624 | 75 |
| 11 | 2005 | 1,023 | 77 | 871 | 28,669 | 2,564 | 18,495 | 75 |
| 12 | 2006 | 818 | 61 | 696 | 29,487 | 2,626 | 19,191 | 75 |
| 13 | 2007 | 655 | 49 | 557 | 30,142 | 2,675 | 19,748 | 75 |
| 14 | 2008 | 524 | 39 | 446 | 30,666 | 2,714 | 20,194 | 75 |
| 15 | 2009 | 419 | 31 | 357 | 31,085 | 2,745 | 20,551 | 75 |
| 16 | 2010 | 335 | 25 | 285 | 31,420 | 2,771 | 20,836 | 75 |
| 17 | 2011 | 268 | 20 | 228 | 31,688 | 2,791 | 21,064 | 75 |
| 18 | 2012 | 215 | 16 | 183 | 31,903 | 2,807 | 21,247 | 75 |
| 19 | 2013 | 172 | 13 | 146 | 32,074 | 2,820 | 21,393 | 75 |
| 20 | 2014 | 137 | 10 | 117 | 32,211 | 2,830 | 21,510 | 75 |
| 21 | 2015 | 110 | 8 | 93 | 32,321 | 2,838 | 21,603 | 75 |
| 22 | 2016 | 88 | 7 | 75 | 32,409 | 2,845 | 21,678 | 75 |
| 23 | 2017 | 70 | 5 | 60 | 32,480 | 2,850 | 21,738 | 75 |

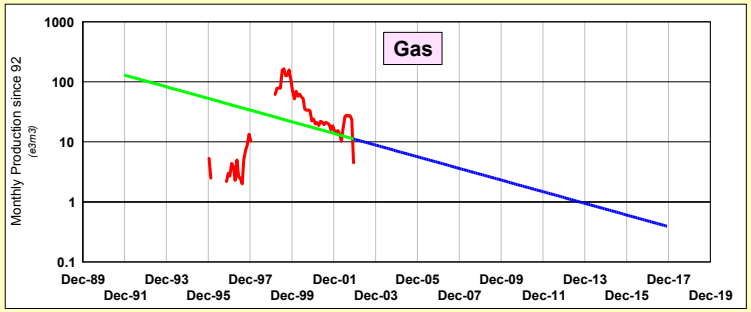
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

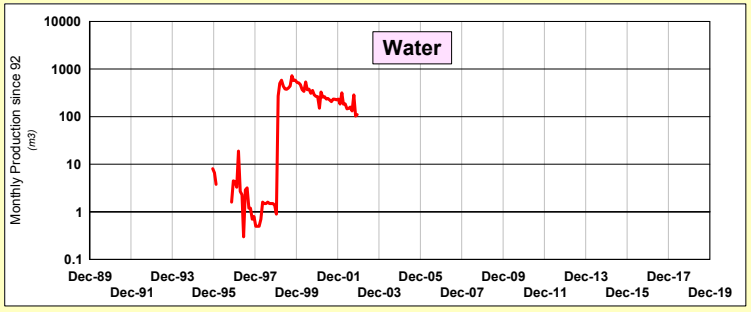
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 75 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 150 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008367**

Well Name: **Pembina et al (Horiz. #1), Mersea 6 - 243 - NTR**

Status: **Active Well**

MNR Pool: **Mersea 4-240-STR**

TGI Pool: **Mersea 4-240-STR Pool**

TGI Field: **Hillman Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 109 | m3 per m3 | 282 | last year | |
| 2002 Water/Oil ratio: | 9.1543 | m3 per m3 | 3.8131 | last 10 years | |
| 2002 Water/ Gas Ratio: | 32.4828 | m3 per e3m3 | 34.9246 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **947** | m3/yr | **267** | e3m3/yr | **8,666** | m3/yr |
| Cumm to Date: | **30,651** | m3 | **3,347** | e3m3 | **116,875** | m3 |
| Remaining Recoverable: | **3,598** | m3 | **720** | e3m3 | **32,940** | m3 |
| Total Recovery: | **34,249** | m3 | **4,066** | e3m3 | **149,815** | m3 |
| Peak Rate: | 25.9 | m3/d | 2.2 | e3m3/d | based on annual | |
| Peak Rate: | 34.2 | m3/d | 3.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 21.9 | m3/d | 1.1 | e3m3/d | per day based on annual | |
| Current Rate: | 2.6 | m3/d | 0.7 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

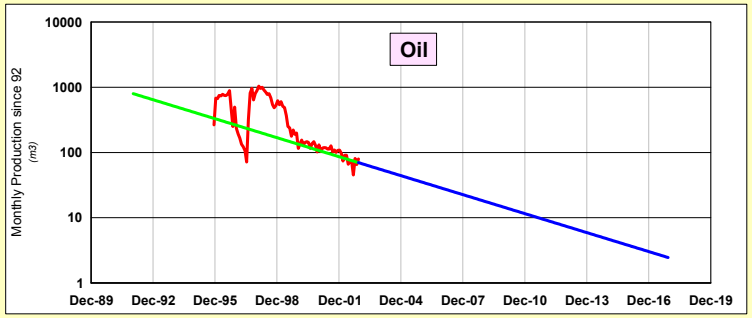
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1995 | 266 | 0 | 761 | 266 | 0 | 761 | 0 |
| 2 | 1996 | 8,009 | 402 | 18,164 | 8,275 | 402 | 18,925 | 50 |
| 3 | 1997 | 4,576 | 223 | 15,786 | 12,850 | 625 | 34,711 | 49 |
| 4 | 1998 | 9,474 | 816 | 24,357 | 22,324 | 1,441 | 59,067 | 86 |
| 5 | 1999 | 4,412 | 732 | 22,253 | 26,736 | 2,173 | 81,320 | 166 |
| 6 | 2000 | 1,605 | 532 | 14,491 | 28,341 | 2,705 | 95,811 | 332 |
| 7 | 2001 | 1,364 | 374 | 12,398 | 29,704 | 3,080 | 108,209 | 275 |
| 8 | 2002 | 947 | 267 | 8,666 | 30,651 | 3,347 | 116,875 | 282 |
| 9 | 2003 | 746 | 149 | 6,828 | 31,397 | 3,496 | 123,703 | 200 |
| 10 | 2004 | 597 | 119 | 5,463 | 31,994 | 3,615 | 129,166 | 200 |
| 11 | 2005 | 477 | 95 | 4,370 | 32,471 | 3,710 | 133,536 | 200 |
| 12 | 2006 | 382 | 76 | 3,496 | 32,853 | 3,787 | 137,032 | 200 |
| 13 | 2007 | 306 | 61 | 2,797 | 33,159 | 3,848 | 139,829 | 200 |
| 14 | 2008 | 244 | 49 | 2,237 | 33,403 | 3,897 | 142,066 | 200 |
| 15 | 2009 | 196 | 39 | 1,790 | 33,598 | 3,936 | 143,856 | 200 |
| 16 | 2010 | 156 | 31 | 1,432 | 33,755 | 3,967 | 145,288 | 200 |
| 17 | 2011 | 125 | 25 | 1,146 | 33,880 | 3,992 | 146,434 | 200 |
| 18 | 2012 | 100 | 20 | 916 | 33,980 | 4,012 | 147,350 | 200 |
| 19 | 2013 | 80 | 16 | 733 | 34,060 | 4,028 | 148,083 | 200 |
| 20 | 2014 | 64 | 13 | 587 | 34,124 | 4,041 | 148,670 | 200 |
| 21 | 2015 | 51 | 10 | 469 | 34,176 | 4,051 | 149,139 | 200 |
| 22 | 2016 | 41 | 8 | 375 | 34,217 | 4,060 | 149,515 | 200 |
| 23 | 2017 | 33 | 7 | 300 | 34,249 | 4,066 | 149,815 | 200 |

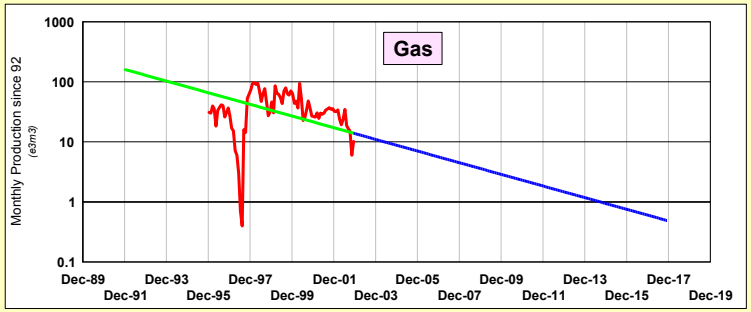
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

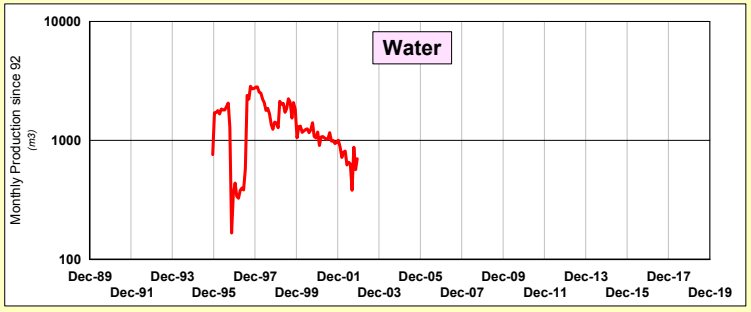
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 200 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 70 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008023 / T008542**

Well Name: **Telesis et al 34611, Mersea 6 - 243 - NTR**

Status: **Active**

MNR Pool: **Mersea 4-240-STR**

TGI Pool: **Mersea 4-240-STR Pool**

TGI Field: **Hillman Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 104 | m3 per m3 | 733 | last year | |
| 2002 Water/Oil ratio: | 0.7040 | m3 per m3 | 2.1260 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.9606 | m3 per e3m3 | 20.4026 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **55** | m3/yr | **41** | e3m3/yr | **39** | m3/yr |
| Cumm to Date: | **4,260** | m3 | **444** | e3m3 | **9,057** | m3 |
| Remaining Recoverable: | **132** | m3 | **92** | e3m3 | **93** | m3 |
| Total Recovery: | **4,392** | m3 | **536** | e3m3 | **9,150** | m3 |
| Peak Rate: | 3.1 | m3/d | 0.3 | e3m3/d | based on annual | |
| Peak Rate: | 3.6 | m3/d | 0.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.1 | m3/d | 0.3 | e3m3/d | per day based on annual | |
| Current Rate: | 0.2 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 105 | 17 | 254 | 105 | 17 | 254 | 164 |
| 2 | 1994 | 1,131 | 116 | 1,012 | 1,236 | 134 | 1,266 | 103 |
| 3 | 1995 | 847 | 56 | 492 | 2,083 | 189 | 1,758 | 66 |
| 4 | 1996 | 603 | 77 | 394 | 2,687 | 266 | 2,152 | 128 |
| 5 | 1997 | 501 | 38 | 1,141 | 3,187 | 304 | 3,293 | 75 |
| 6 | 1998 | 183 | 35 | 4,891 | 3,370 | 339 | 8,184 | 194 |
| 7 | 1999 | 284 | 30 | 475 | 3,654 | 369 | 8,659 | 105 |
| 8 | 2000 | 293 | 21 | 193 | 3,947 | 391 | 8,852 | 73 |
| 9 | 2001 | 257 | 13 | 166 | 4,205 | 403 | 9,018 | 50 |
| 10 | 2002 | 55 | 41 | 39 | 4,260 | 444 | 9,057 | 733 |
| 11 | 2003 | 40 | 28 | 28 | 4,300 | 472 | 9,085 | 700 |
| 12 | 2004 | 28 | 19 | 20 | 4,328 | 491 | 9,104 | 700 |
| 13 | 2005 | 19 | 14 | 14 | 4,347 | 505 | 9,118 | 700 |
| 14 | 2006 | 14 | 10 | 10 | 4,361 | 514 | 9,128 | 700 |
| 15 | 2007 | 10 | 7 | 7 | 4,370 | 521 | 9,134 | 700 |
| 16 | 2008 | 7 | 5 | 5 | 4,377 | 526 | 9,139 | 700 |
| 17 | 2009 | 5 | 3 | 3 | 4,382 | 529 | 9,142 | 700 |
| 18 | 2010 | 3 | 2 | 2 | 4,385 | 531 | 9,145 | 700 |
| 19 | 2011 | 2 | 2 | 2 | 4,387 | 533 | 9,146 | 700 |
| 20 | 2012 | 2 | 1 | 1 | 4,389 | 534 | 9,147 | 700 |
| 21 | 2013 | 1 | 1 | 1 | 4,390 | 535 | 9,148 | 700 |
| 22 | 2014 | 1 | 1 | 1 | 4,391 | 535 | 9,149 | 700 |
| 23 | 2015 | 1 | 0 | 0 | 4,391 | 536 | 9,149 | 700 |
| 24 | 2016 | 0 | 0 | 0 | 4,392 | 536 | 9,149 | 700 |
| 25 | 2017 | 0 | 0 | 0 | 4,392 | 536 | 9,150 | 700 |

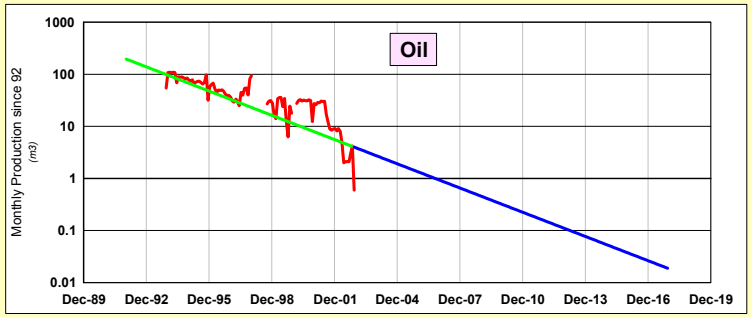
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

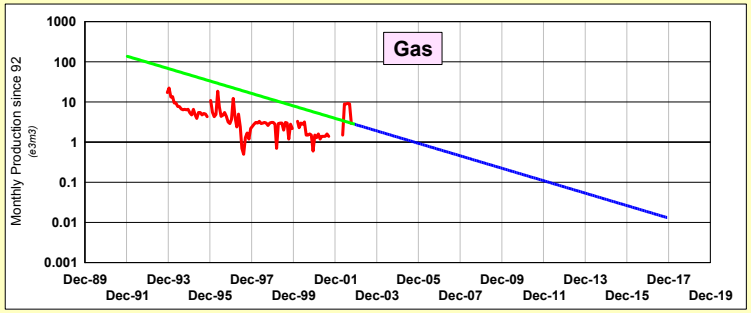
Revised May 27th 2004

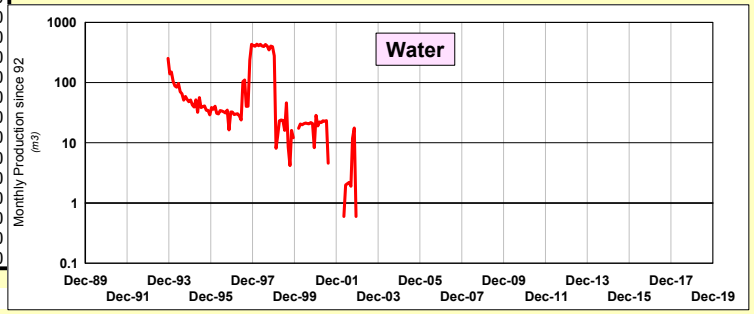
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 700 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 4 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | **0.0293** | per month | Decline Factor: | **0.0293** | per month |



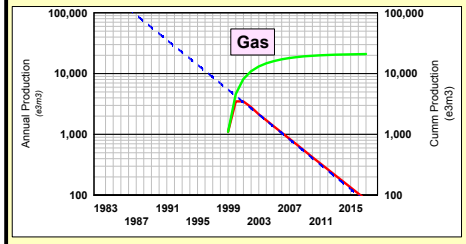
MNR Pool: **Blandford 7-1-XIII**

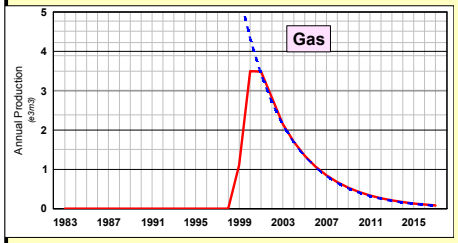
TGI Pool: **Blandford 7-1-XIII**

TGI Field:

No of Wells: **2**

## Annual & Cumulative Production
*(since 1983)*




**21%** Pool Decline

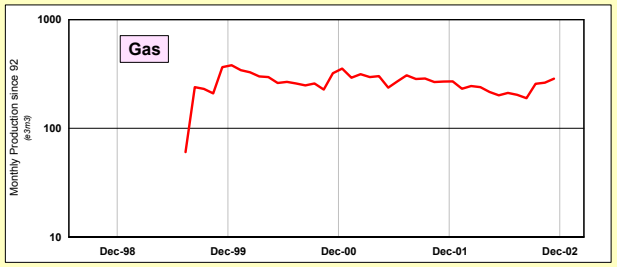
| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

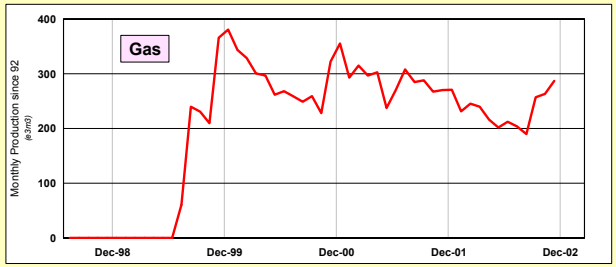
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 2,820 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 0 | m3 | 10,916 | e3m3 | 0 | m3 |
| Remaining Recoverable: | 0 | m3 | 10,088 | e3m3 | 0 | m3 |
| Total Recovery: | 0 | m3 | 21,003 | e3m3 | 0 | m3 |

Current Rate: 0 m3/d 8 e3m3/d
Current decline rate: 21% annually

| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2 | 1 | 1999 | 0 | 1,107 | 0 | 0 | 1,107 | 0 | |
| 2 | 2 | 2000 | 0 | 3,498 | 0 | 0 | 4,605 | 0 | |
| 2 | 3 | 2001 | 0 | 3,490 | 0 | 0 | 8,096 | 0 | |
| 2 | 4 | 2002 | 0 | 2,820 | 0 | 0 | 10,916 | 0 | |
| 2 | 5 | 2003 | 0 | 2,153 | 0 | 0 | 13,068 | 0 | |
| 2 | 6 | 2004 | 0 | 1,707 | 0 | 0 | 14,775 | 0 | |
| 2 | 7 | 2005 | 0 | 1,354 | 0 | 0 | 16,129 | 0 | |
| 2 | 8 | 2006 | 0 | 1,074 | 0 | 0 | 17,202 | 0 | |
| 2 | 9 | 2007 | 0 | 852 | 0 | 0 | 18,054 | 0 | |
| 2 | 10 | 2008 | 0 | 676 | 0 | 0 | 18,730 | 0 | |
| 2 | 11 | 2009 | 0 | 536 | 0 | 0 | 19,266 | 0 | |
| 2 | 12 | 2010 | 0 | 425 | 0 | 0 | 19,691 | 0 | |
| 2 | 13 | 2011 | 0 | 338 | 0 | 0 | 20,029 | 0 | |
| 2 | 14 | 2012 | 0 | 268 | 0 | 0 | 20,296 | 0 | |
| 2 | 15 | 2013 | 0 | 213 | 0 | 0 | 20,509 | 0 | |
| 2 | 16 | 2014 | 0 | 169 | 0 | 0 | 20,678 | 0 | |
| 2 | 17 | 2015 | 0 | 134 | 0 | 0 | 20,812 | 0 | |
| 2 | 18 | 2016 | 0 | 107 | 0 | 0 | 20,919 | 0 | |
| 2 | 19 | 2017 | 0 | 85 | 0 | 0 | 21,003 | 0 | |
| | | To date: | 0 | 10,916 | 0 | | | | |

## Monthly Production vs Month
*(1992 to 2002)*



Well No.: **T008926**

Well Name:

Status: **Active**

MNR Pool: **Blandford 7-1-XIII**

Well: **T008926**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | ERR | m3 per m3 | 0 | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | ERR | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **970** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **0** | m3 | **3,156** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **3,405** | e3m3 | **0** | m3 |
| Total Recovery: | **0** | m3 | **6,561** | e3m3 | **0** | m3 |
| Peak Rate: | 0.0 | m3/d | 3.4 | e3m3/d | based on annual | |
| Peak Rate: | ERR | m3/d | 4.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 2.6 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 2.7 | e3m3/d | | |
| Current decline rate: | 22% | | annually | | | |

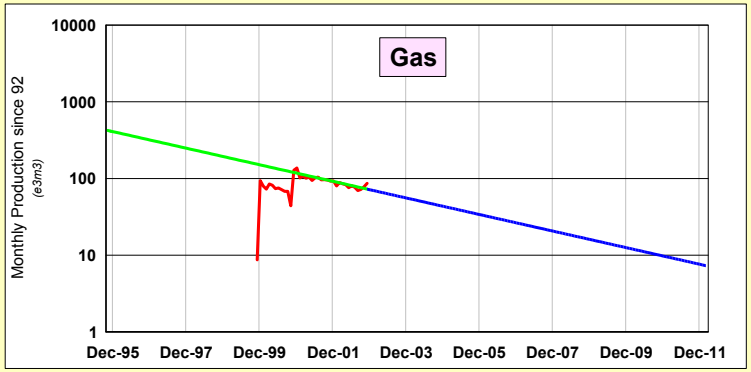
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1999 | 0 | 9 | 0 | 0 | 9 | 0 | |
| 2 | 2000 | 0 | 942 | 0 | 0 | 951 | 0 | |
| 3 | 2001 | 0 | 1,235 | 0 | 0 | 2,186 | 0 | |
| 4 | 2002 | 0 | 970 | 0 | 0 | 3,156 | 0 | |
| 5 | 2003 | 0 | 768 | 0 | 0 | 3,923 | 0 | |
| 6 | 2004 | 0 | 599 | 0 | 0 | 4,522 | 0 | |
| 7 | 2005 | 0 | 467 | 0 | 0 | 4,989 | 0 | |
| 8 | 2006 | 0 | 364 | 0 | 0 | 5,353 | 0 | |
| 9 | 2007 | 0 | 284 | 0 | 0 | 5,638 | 0 | |
| 10 | 2008 | 0 | 222 | 0 | 0 | 5,859 | 0 | |
| 11 | 2009 | 0 | 173 | 0 | 0 | 6,032 | 0 | |
| 12 | 2010 | 0 | 135 | 0 | 0 | 6,167 | 0 | |
| 13 | 2011 | 0 | 105 | 0 | 0 | 6,272 | 0 | |
| 14 | 2012 | 0 | 82 | 0 | 0 | 6,354 | 0 | |
| 15 | 2013 | 0 | 64 | 0 | 0 | 6,418 | 0 | |
| 16 | 2014 | 0 | 50 | 0 | 0 | 6,468 | 0 | |
| 17 | 2015 | 0 | 39 | 0 | 0 | 6,507 | 0 | |
| 18 | 2016 | 0 | 30 | 0 | 0 | 6,537 | 0 | |
| 19 | 2017 | 0 | 24 | 0 | 0 | 6,561 | 0 | |

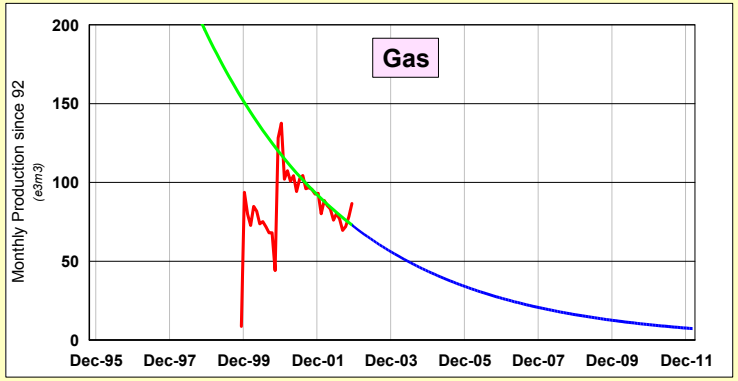
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
***(since 1992)***

**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 73 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 22% | per year | Decline Rate: | 22% | per year |
| Decline Factor: | **0.0205** | per month | Decline Factor: | **0.0205** | per month |



Well No.: **T008189**

Well Name:

Status: **Active**

MNR Pool: **Blandford 7-1-XIII**

Well: **T008189**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | ERR | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | ERR | m3 per m3 | ERR | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **1,850** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **0** | m3 | **7,760** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **6,683** | e3m3 | **0** | m3 |
| Total Recovery: | **0** | m3 | **14,442** | e3m3 | **0** | m3 |
| Peak Rate: | 0.0 | m3/d | 7.0 | e3m3/d | based on annual | |
| Peak Rate: | ERR | m3/d | 11.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 7.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 5.1 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

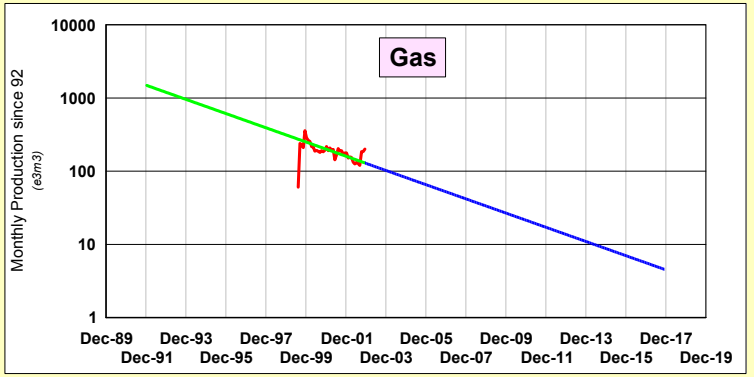
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1999 | 0 | 1,098 | 0 | 0 | 1,098 | 0 | |
| 2 | 2000 | 0 | 2,556 | 0 | 0 | 3,654 | 0 | |
| 3 | 2001 | 0 | 2,256 | 0 | 0 | 5,910 | 0 | |
| 4 | 2002 | 0 | 1,850 | 0 | 0 | 7,760 | 0 | |
| 5 | 2003 | 0 | 1,385 | 0 | 0 | 9,145 | 0 | |
| 6 | 2004 | 0 | 1,108 | 0 | 0 | 10,253 | 0 | |
| 7 | 2005 | 0 | 887 | 0 | 0 | 11,140 | 0 | |
| 8 | 2006 | 0 | 709 | 0 | 0 | 11,849 | 0 | |
| 9 | 2007 | 0 | 567 | 0 | 0 | 12,416 | 0 | |
| 10 | 2008 | 0 | 454 | 0 | 0 | 12,870 | 0 | |
| 11 | 2009 | 0 | 363 | 0 | 0 | 13,233 | 0 | |
| 12 | 2010 | 0 | 291 | 0 | 0 | 13,524 | 0 | |
| 13 | 2011 | 0 | 232 | 0 | 0 | 13,756 | 0 | |
| 14 | 2012 | 0 | 186 | 0 | 0 | 13,942 | 0 | |
| 15 | 2013 | 0 | 149 | 0 | 0 | 14,091 | 0 | |
| 16 | 2014 | 0 | 119 | 0 | 0 | 14,210 | 0 | |
| 17 | 2015 | 0 | 95 | 0 | 0 | 14,305 | 0 | |
| 18 | 2016 | 0 | 76 | 0 | 0 | 14,381 | 0 | |
| 19 | 2017 | 0 | 61 | 0 | 0 | 14,442 | 0 | |

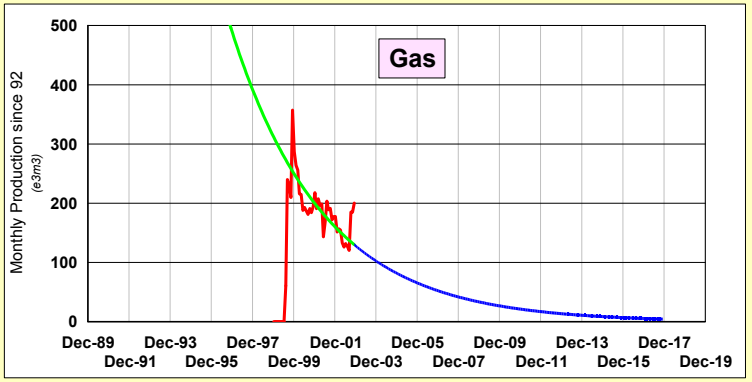
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
***(since 1992)***

**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 130 | e3m3 per month | Start: | 12 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008974**

Well Name:

Status: **Active**

MNR Pool: **Blenheim 3-10-VI**

Well: **T008974**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | ERR | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | ERR | m3 per m3 | ERR | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 125 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 0 | m3 | 700 | e3m3 | 0 | m3 |
| Remaining Recoverable: | 0 | m3 | 514 | e3m3 | 0 | m3 |
| Total Recovery: | 0 | m3 | 1,214 | e3m3 | 0 | m3 |
| Peak Rate: | 0.0 | m3/d | 1.1 | e3m3/d | based on annual | |
| Peak Rate: | | m3/d | 2.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 1.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.3 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

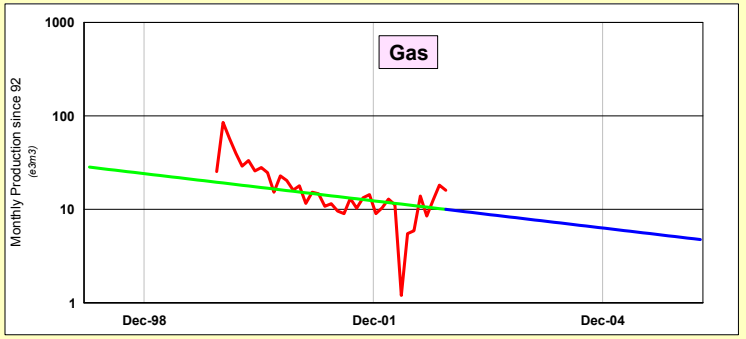
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1999 | 0 | 25 | 0 | 0 | 25 | 0 | |
| 2 | 2000 | 0 | 398 | 0 | 0 | 423 | 0 | |
| 3 | 2001 | 0 | 152 | 0 | 0 | 575 | 0 | |
| 4 | 2002 | 0 | 125 | 0 | 0 | 700 | 0 | |
| 5 | 2003 | 0 | 107 | 0 | 0 | 807 | 0 | |
| 6 | 2004 | 0 | 85 | 0 | 0 | 892 | 0 | |
| 7 | 2005 | 0 | 68 | 0 | 0 | 960 | 0 | |
| 8 | 2006 | 0 | 55 | 0 | 0 | 1,015 | 0 | |
| 9 | 2007 | 0 | 44 | 0 | 0 | 1,058 | 0 | |
| 10 | 2008 | 0 | 35 | 0 | 0 | 1,093 | 0 | |
| 11 | 2009 | 0 | 28 | 0 | 0 | 1,121 | 0 | |
| 12 | 2010 | 0 | 22 | 0 | 0 | 1,143 | 0 | |
| 13 | 2011 | 0 | 18 | 0 | 0 | 1,161 | 0 | |
| 14 | 2012 | 0 | 14 | 0 | 0 | 1,176 | 0 | |
| 15 | 2013 | 0 | 11 | 0 | 0 | 1,187 | 0 | |
| 16 | 2014 | 0 | 9 | 0 | 0 | 1,196 | 0 | |
| 17 | 2015 | 0 | 7 | 0 | 0 | 1,204 | 0 | |
| 18 | 2016 | 0 | 6 | 0 | 0 | 1,209 | 0 | |
| 19 | 2017 | 0 | 5 | 0 | 0 | 1,214 | 0 | |

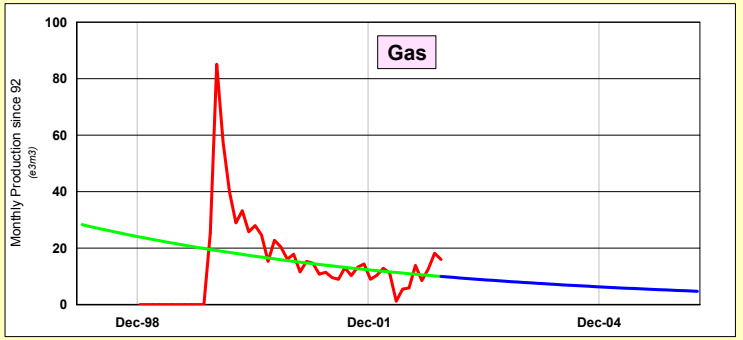
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
***(since 1992)***

**Basis--->** **Gas**

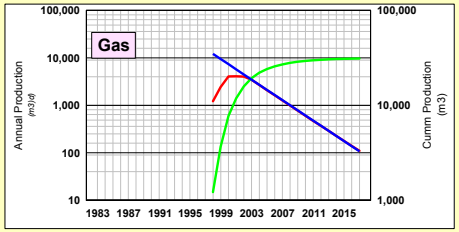
| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | 0.0184 | per month | Decline Factor: | 0.0184 | per month |

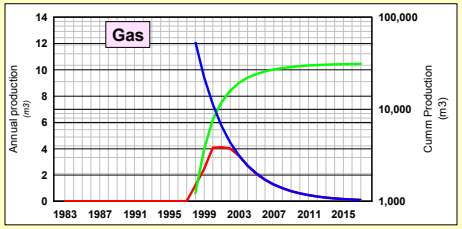


## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Blenheim 8-13-X**
TGI Pool: **Blenheim 8-13-X Pool**
TGI Field: **Innerkip Field**
No of Wells: **3**



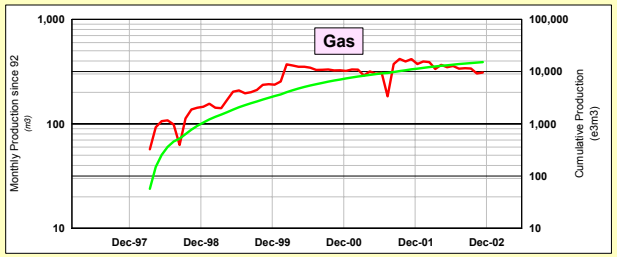

**22%** Pool Decline

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 4,031 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 0 | m3 | 15,893 | e3m3 | 0 | m3 |
| Remaining Recoverable: | 1 | m3 | 15,299 | e3m3 | 0 | m3 |
| Total Recovery: | 1 | m3 | 31,192 | e3m3 | 0 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 0 | m3/d | 11 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1998 | 0 | 1,222 | 0 | 0 | 1,222 | 0 | |
| 1 | 2 | 1999 | 0 | 2,447 | 0 | 0 | 3,669 | 0 | |
| 2 | 3 | 2000 | 0 | 4,082 | 0 | 0 | 7,751 | 0 | |
| 3 | 4 | 2001 | 0 | 4,112 | 0 | 0 | 11,863 | 0 | |
| 3 | 5 | 2002 | 0 | 4,031 | 0 | 0 | 15,893 | 0 | |
| | 6 | 2003 | 0 | 3,462 | 0 | 0 | 19,355 | 0 | |
| | 7 | 2004 | 0 | 2,690 | 0 | 0 | 22,045 | 0 | |
| | 8 | 2005 | 0 | 2,092 | 0 | 0 | 24,137 | 0 | |
| | 9 | 2006 | 0 | 1,629 | 0 | 0 | 25,765 | 0 | |
| | 10 | 2007 | 0 | 1,269 | 0 | 1 | 27,034 | 0 | |
| | 11 | 2008 | 0 | 990 | 0 | 1 | 28,024 | 0 | |
| | 12 | 2009 | 0 | 773 | 0 | 1 | 28,797 | 0 | |
| | 13 | 2010 | 0 | 604 | 0 | 1 | 29,402 | 0 | |
| | 14 | 2011 | 0 | 473 | 0 | 1 | 29,874 | 0 | |
| | 15 | 2012 | 0 | 370 | 0 | 1 | 30,244 | 0 | |
| | 16 | 2013 | 0 | 290 | 0 | 1 | 30,535 | 0 | |
| | 17 | 2014 | 0 | 228 | 0 | 1 | 30,762 | 0 | |
| | 18 | 2015 | 0 | 179 | 0 | 1 | 30,941 | 0 | |
| | 19 | 2016 | 0 | 140 | 0 | 1 | 31,081 | 0 | |
| | 20 | 2017 | 0 | 110 | 0 | 1 | 31,192 | 0 | |
| | | To date: | 0 | 15,893 | 0 | | | | ERR |

## Monthly Production vs Month
*(1992 to 2002)*



Well No.: **T009792**

Well Name: **Shiningbank/JEL #87, Blenheim 3 - 9 - IX**

Status: **Active Well**

MNR Pool: **Blenheim 8-13-X**

TGI Pool: **Blenheim 8-13-X Pool**

TGI Field: **Innerkip Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | | 0.0000 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | 0.0000 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **1,123** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **0** | m3 | **1,801** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **3,863** | e3m3 | **0** | m3 |
| Total Recovery: tal Recovery: | **0** | m3 | **5,664** | e3m3 | **0** | m3 |
| Peak Rate: | 0.0 | m3/d | 3.1 | e3m3/d | based on annual | |
| Peak Rate: | 0.0 | m3/d | 4.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 3.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 3.1 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2001 | 0 | 678 | 0 | 0 | 678 | 0 | ERR |
| 2 | 2002 | 0 | 1,123 | 0 | 0 | 1,801 | 0 | ERR |
| 3 | 2003 | 0 | 979 | 0 | 0 | 2,780 | 0 | 10,000,000 |
| 4 | 2004 | 0 | 734 | 0 | 0 | 3,514 | 0 | 10,000,000 |
| 5 | 2005 | 0 | 551 | 0 | 0 | 4,065 | 0 | 10,000,000 |
| 6 | 2006 | 0 | 413 | 0 | 0 | 4,478 | 0 | 10,000,000 |
| 7 | 2007 | 0 | 310 | 0 | 0 | 4,787 | 0 | 10,000,000 |
| 8 | 2008 | 0 | 232 | 0 | 0 | 5,020 | 0 | 10,000,000 |
| 9 | 2009 | 0 | 174 | 0 | 0 | 5,194 | 0 | 10,000,000 |
| 10 | 2010 | 0 | 131 | 0 | 0 | 5,325 | 0 | 10,000,000 |
| 11 | 2011 | 0 | 98 | 0 | 0 | 5,423 | 0 | 10,000,000 |
| 12 | 2012 | 0 | 73 | 0 | 0 | 5,496 | 0 | 10,000,000 |
| 13 | 2013 | 0 | 55 | 0 | 0 | 5,551 | 0 | 10,000,000 |
| 14 | 2014 | 0 | 41 | 0 | 0 | 5,593 | 0 | 10,000,000 |
| 15 | 2015 | 0 | 31 | 0 | 0 | 5,624 | 0 | 10,000,000 |
| 16 | 2016 | 0 | 23 | 0 | 0 | 5,647 | 0 | 10,000,000 |
| 17 | 2017 | 0 | 17 | 0 | 0 | 5,664 | 0 | 10,000,000 |

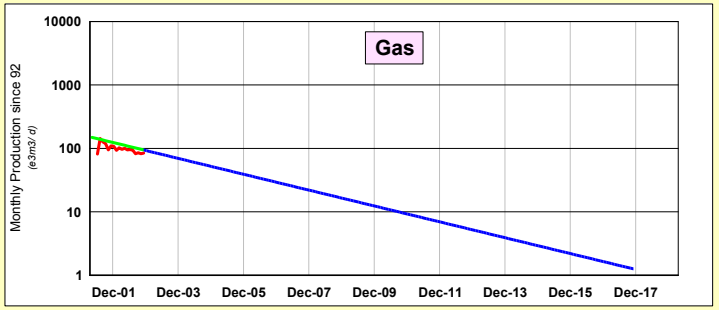
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
***(since 1992)***

**Basis--->** **Gas**

| | | |
|---|---|---|
| GOR | 10000000 | m3/m3 |
| Start: | 95 | e3m3 per month |
| Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month |
| **GAS** | | |

| | | |
|---|---|---|
| Start: | | m3/mo. |
| Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month |
| **OIL** | | |



Well No.: **T009134**

Well Name: **Cambright #79 (Horiz.#1), Blenheim 1 - 11 - IX**

Status: **Active Well**

MNR Pool: **Blenheim 8-13-X**

TGI Pool: **Blenheim 8-13-X Pool**

TGI Field: **Innerkip Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | | 0.0000 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | 0.0000 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **720** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **0** | m3 | **2,920** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **2,440** | e3m3 | **0** | m3 |
| Total Recovery: tal Recovery: | **0** | m3 | **5,360** | e3m3 | **0** | m3 |
| Peak Rate: | 0.0 | m3/d | 3.6 | e3m3/d | based on annual | |
| Peak Rate: | 0.0 | m3/d | 4.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 2.5 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 2.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

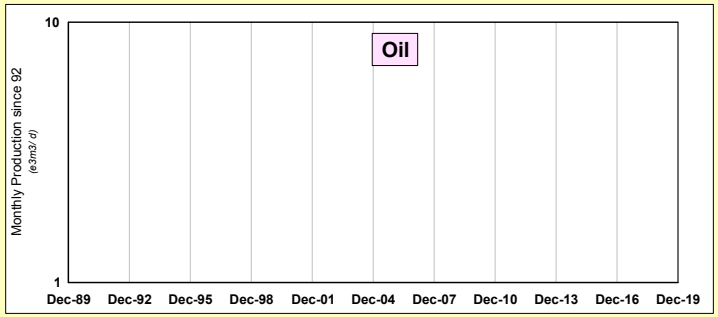
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2000 | 0 | 1,301 | 0 | 0 | 1,301 | 0 | ERR |
| 2 | 2001 | 0 | 899 | 0 | 0 | 2,200 | 0 | ERR |
| 3 | 2002 | 0 | 720 | 0 | 0 | 2,920 | 0 | ERR |
| 4 | 2003 | 0 | 618 | 0 | 0 | 3,539 | 0 | 10,000,000 |
| 5 | 2004 | 0 | 464 | 0 | 0 | 4,002 | 0 | 10,000,000 |
| 6 | 2005 | 0 | 348 | 0 | 0 | 4,350 | 0 | 10,000,000 |
| 7 | 2006 | 0 | 261 | 0 | 0 | 4,611 | 0 | 10,000,000 |
| 8 | 2007 | 0 | 196 | 0 | 0 | 4,806 | 0 | 10,000,000 |
| 9 | 2008 | 0 | 147 | 0 | 0 | 4,953 | 0 | 10,000,000 |
| 10 | 2009 | 0 | 110 | 0 | 0 | 5,063 | 0 | 10,000,000 |
| 11 | 2010 | 0 | 83 | 0 | 0 | 5,146 | 0 | 10,000,000 |
| 12 | 2011 | 0 | 62 | 0 | 0 | 5,208 | 0 | 10,000,000 |
| 13 | 2012 | 0 | 46 | 0 | 0 | 5,254 | 0 | 10,000,000 |
| 14 | 2013 | 0 | 35 | 0 | 0 | 5,289 | 0 | 10,000,000 |
| 15 | 2014 | 0 | 26 | 0 | 0 | 5,315 | 0 | 10,000,000 |
| 16 | 2015 | 0 | 20 | 0 | 0 | 5,335 | 0 | 10,000,000 |
| 17 | 2016 | 0 | 15 | 0 | 0 | 5,349 | 0 | 10,000,000 |
| 18 | 2017 | 0 | 11 | 0 | 0 | 5,360 | 0 | 10,000,000 |

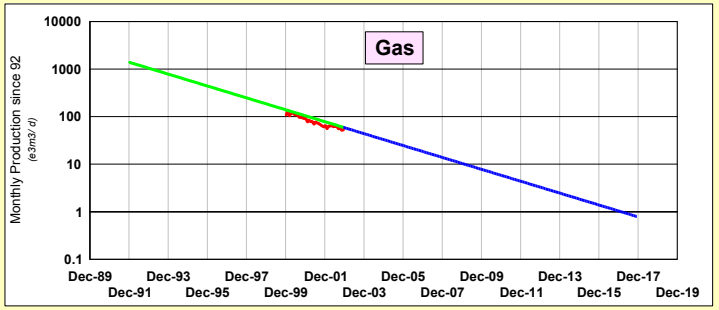
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

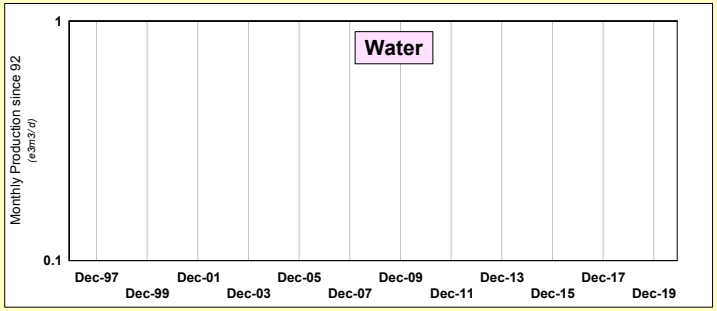
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 10000000 | m3/m3 | | | |
| Start: | 60 | e3m3 per month | Start: | | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T008555**

Well Name: **Cambright #71, Blenheim 8 - 13 - X**

Status: **Active Well**

MNR Pool: **Blenheim 8-13-X**

TGI Pool: **Blenheim 8-13-X Pool**

TGI Field: **Innerkip Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | | 0.0000 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | 0.0000 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **2,187** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **0** | m3 | **11,172** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **8,996** | e3m3 | **0** | m3 |
| Total Recovery: | **0** | m3 | **20,167** | e3m3 | **0** | m3 |
| Peak Rate: | 0.0 | m3/d | 7.6 | e3m3/d | based on annual | |
| Peak Rate: | 0.0 | m3/d | 8.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 6.7 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 6.0 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

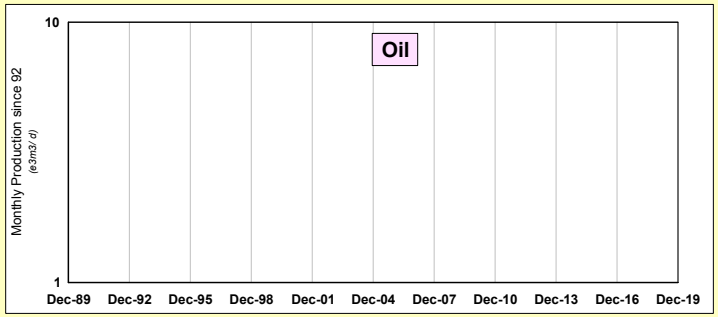
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1998 | 0 | 1,222 | 0 | 0 | 1,222 | 0 | |
| 2 | 1999 | 0 | 2,447 | 0 | 0 | 3,669 | 0 | |
| 3 | 2000 | 0 | 2,781 | 0 | 0 | 6,450 | 0 | |
| 4 | 2001 | 0 | 2,535 | 0 | 0 | 8,985 | 0 | |
| 5 | 2002 | 0 | 2,187 | 0 | 0 | 11,172 | 0 | |
| 6 | 2003 | 0 | 1,865 | 0 | 0 | 13,036 | 0 | |
| 7 | 2004 | 0 | 1,492 | 0 | 0 | 14,528 | 0 | |
| 8 | 2005 | 0 | 1,193 | 0 | 0 | 15,722 | 0 | |
| 9 | 2006 | 0 | 955 | 0 | 0 | 16,676 | 0 | |
| 10 | 2007 | 0 | 764 | 0 | 0 | 17,440 | 0 | |
| 11 | 2008 | 0 | 611 | 0 | 0 | 18,051 | 0 | |
| 12 | 2009 | 0 | 489 | 0 | 0 | 18,540 | 0 | |
| 13 | 2010 | 0 | 391 | 0 | 0 | 18,931 | 0 | |
| 14 | 2011 | 0 | 313 | 0 | 0 | 19,244 | 0 | |
| 15 | 2012 | 0 | 250 | 0 | 0 | 19,494 | 0 | |
| 16 | 2013 | 0 | 200 | 0 | 0 | 19,695 | 0 | |
| 17 | 2014 | 0 | 160 | 0 | 0 | 19,855 | 0 | |
| 18 | 2015 | 0 | 128 | 0 | 0 | 19,983 | 0 | |
| 19 | 2016 | 0 | 103 | 0 | 0 | 20,085 | 0 | |
| 20 | 2017 | 0 | 82 | 0 | 0 | 20,167 | 0 | |

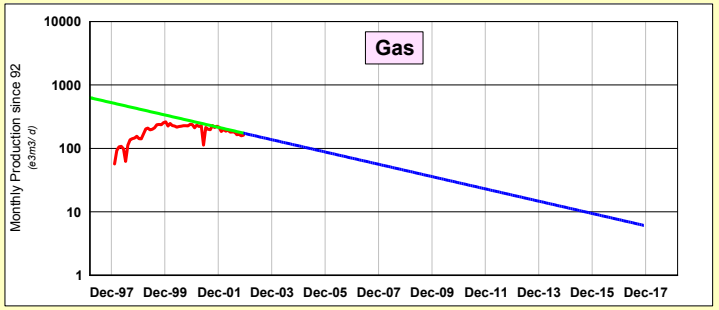
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

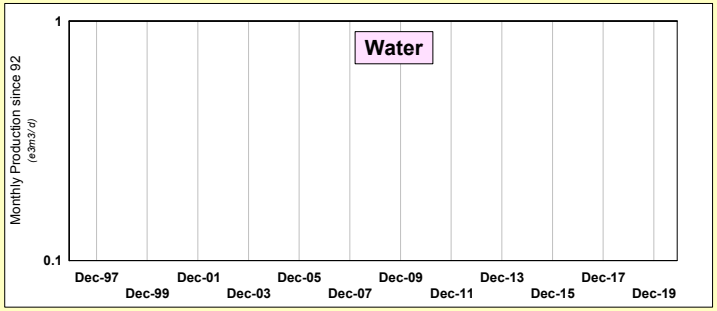
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100000000 | m3/m3 | | | |
| Start: | 175 | e3m3 per month | Start: | | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



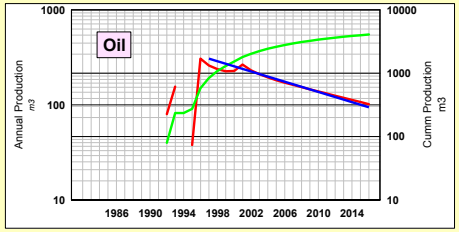
MNR Pool: **Mersea 6-20-XI**

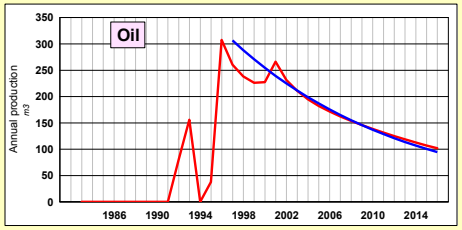
TGI Pool: **Mersea 6-20-XI Pool**

TGI Field: **Renwick-Fargo Field**

No of Wells: **2**

## Annual & Cumulative Production
*(since 1983)*




**6%** Pool Decline

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

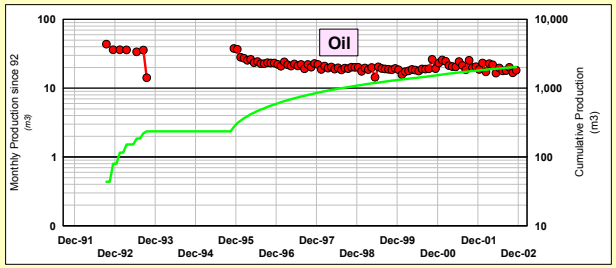
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 231 | m3/yr | 0 | e3m3/yr | 6 | m3/yr |
| Cumm to Date: | 2,032 | m3 | 0 | e3m3 | 82 | m3 |
| Remaining Recoverable: | 2,155 | m3 | 0 | e3m3 | 29 | m3 |
| Total Rrecovery: | 4,187 | m3 | 0 | e3m3 | 111 | m3 |

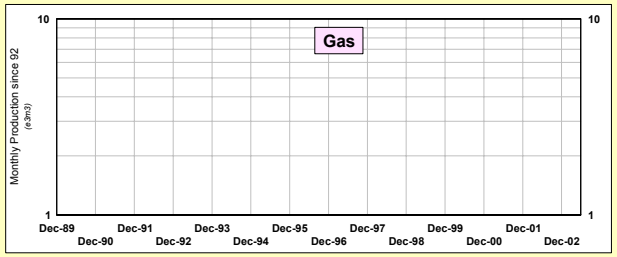
Current Rate: 1 m3/d 0 e3m3/d

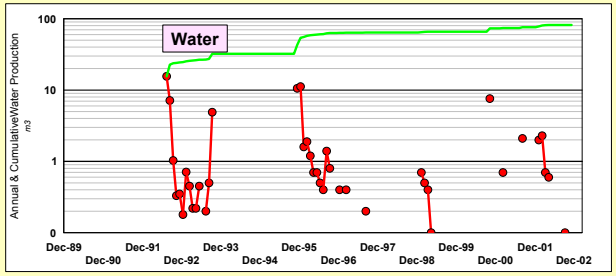
Current decline rate: 6% annually

| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1992 | 80 | 0 | 24 | 80 | 0 | 24 | |
| 1 | 2 | 1993 | 156 | 0 | 8 | 236 | 0 | 32 | |
| 0 | 2 | 1994 | 0 | 0 | 0 | 236 | 0 | 32 | |
| 1 | 3 | 1995 | 38 | 0 | 11 | 274 | 0 | 43 | |
| 1 | 4 | 1996 | 308 | 0 | 20 | 582 | 0 | 63 | |
| 1 | 5 | 1997 | 261 | 0 | 1 | 842 | 0 | 64 | |
| 1 | 6 | 1998 | 238 | 0 | 0 | 1,080 | 0 | 64 | |
| 1 | 7 | 1999 | 226 | 0 | 2 | 1,307 | 0 | 66 | |
| 2 | 8 | 2000 | 228 | 0 | 8 | 1,534 | 0 | 74 | |
| 2 | 9 | 2001 | 266 | 0 | 3 | 1,800 | 0 | 76 | |
| 2 | 10 | 2002 | 231 | 0 | 6 | 2,032 | 0 | 82 | |
| | 11 | 2003 | 211 | 0 | 4 | 2,243 | 0 | 86 | |
| | 12 | 2004 | 195 | 0 | 3 | 2,438 | 0 | 89 | |
| | 13 | 2005 | 182 | 0 | 3 | 2,620 | 0 | 92 | |
| | 14 | 2006 | 172 | 0 | 2 | 2,792 | 0 | 94 | |
| | 15 | 2007 | 162 | 0 | 2 | 2,954 | 0 | 96 | |
| | 16 | 2008 | 154 | 0 | 2 | 3,108 | 0 | 98 | |
| | 17 | 2009 | 146 | 0 | 2 | 3,254 | 0 | 100 | |
| | 18 | 2010 | 139 | 0 | 2 | 3,393 | 0 | 102 | |
| | 19 | 2011 | 132 | 0 | 2 | 3,524 | 0 | 103 | |
| | 20 | 2012 | 125 | 0 | 2 | 3,649 | 0 | 105 | |
| | 21 | 2013 | 119 | 0 | 1 | 3,768 | 0 | 106 | |
| | 22 | 2014 | 113 | 0 | 1 | 3,881 | 0 | 107 | |
| | 23 | 2015 | 107 | 0 | 1 | 3,988 | 0 | 109 | |
| | 24 | 2016 | 102 | 0 | 1 | 4,090 | 0 | 110 | |
| | 25 | 2017 | 97 | 0 | 1 | 4,187 | 0 | 111 | |
| | | To date: | 2,032 | 0 | 82 | | | | 0.0000 |

## Monthly Production vs Month
*(1992 to 2002)*



Well No.: **T009529**

Well Name: **Talisman (Horiz.#1), Mersea 4 - 19 - X**

Status: **Active Well**

MNR Pool: **Mersea 6-20-XI**

TGI Pool: **Mersea 6-20-XI Pool**

TGI: **Renwick-Fargo Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.1339 | m3 per m3 | | 0.1700 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | 0.0000 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **24** | m3/yr | **0** | e3m3/yr | **3** | m3/yr |
| Cumm to Date: | **80** | m3 | **0** | e3m3 | **14** | m3 |
| Remaining Recoverable: | **25** | m3 | **0** | e3m3 | **3** | m3 |
| Total Recovery: | **105** | m3 | **0** | e3m3 | **17** | m3 |
| Peak Rate: | 0.1 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 0.3 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.1 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.1 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 50% | | annually | | | |

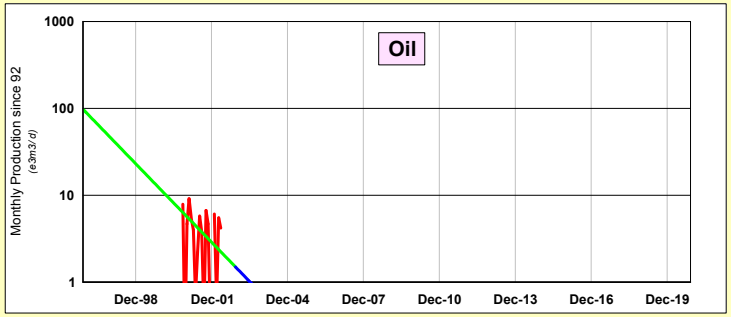
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 2000 | 8 | 0 | 8 | 8 | 0 | 8 | |
| 2 | 2001 | 48 | 0 | 3 | 56 | 0 | 10 | |
| 3 | 2002 | 24 | 0 | 3 | 80 | 0 | 14 | |
| 4 | 2003 | 13 | 0 | 2 | 93 | 0 | 15 | |
| 5 | 2004 | 6 | 0 | 1 | 99 | 0 | 16 | |
| 6 | 2005 | 3 | 0 | 0 | 102 | 0 | 17 | |
| 7 | 2006 | 2 | 0 | 0 | 104 | 0 | 17 | |
| 8 | 2007 | 1 | 0 | 0 | 104 | 0 | 17 | |
| 9 | 2008 | 0 | 0 | 0 | 105 | 0 | 17 | |
| 10 | 2009 | 0 | 0 | 0 | 105 | 0 | 17 | |
| 11 | 2010 | 0 | 0 | 0 | 105 | 0 | 17 | |
| 12 | 2011 | 0 | 0 | 0 | 105 | 0 | 17 | |
| 13 | 2012 | 0 | 0 | 0 | 105 | 0 | 17 | |
| 14 | 2013 | 0 | 0 | 0 | 105 | 0 | 17 | |
| 15 | 2014 | 0 | 0 | 0 | 105 | 0 | 17 | |
| 16 | 2015 | 0 | 0 | 0 | 105 | 0 | 17 | |
| 17 | 2016 | 0 | 0 | 0 | 105 | 0 | 17 | |
| 18 | 2017 | 0 | 0 | 0 | 105 | 0 | 17 | |

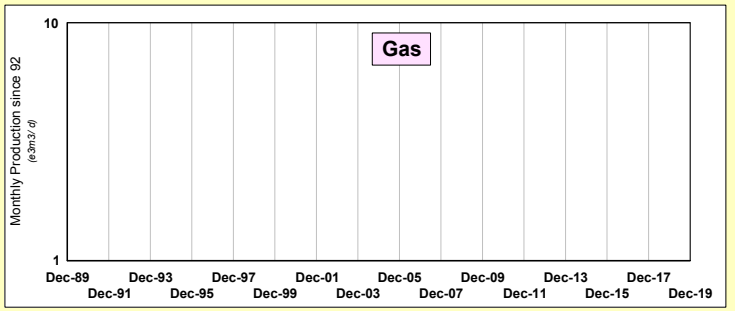
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

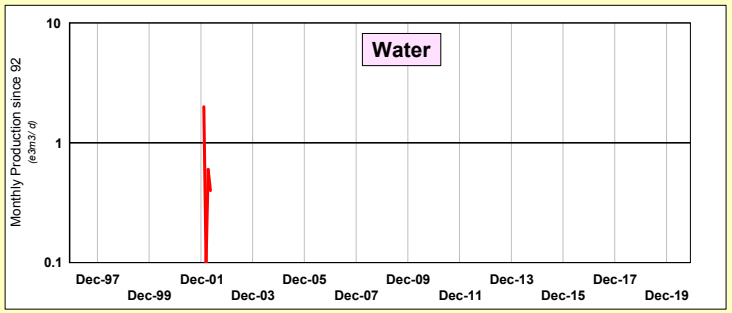
## Monthly Production vs Month
*(1992 to 2002)*

0 Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 1.5 | m3/mo. |
| Decline Rate: | 50% | per year | Decline Rate: | 50% | per year |
| Decline Factor: | **0.0561** | per month | Decline Factor: | **0.0561** | per month |



Well No.: **T007798**

Well Name: **Telesis et al 34614, Mersea 6 - 20 - XI**

Status: **Active Well**

MNR Pool: **Mersea 6-20-XI**

TGI Pool: **Mersea 6-20-XI Pool**

TGI: **Renwick-Fargo Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.0120 | m3 per m3 | | 0.0351 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | 0.0000 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **208** | m3/yr | **0** | e3m3/yr | **3** | m3/yr |
| Cumm to Date: | **1,952** | m3 | **0** | e3m3 | **69** | m3 |
| Total Recovery: | **2,130** | m3 | **0** | e3m3 | **26** | m3 |
| al Recovery: | **4,082** | m3 | **0** | e3m3 | **94** | m3 |
| Peak Rate: | 0.8 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 1.4 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.6 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 5% | | annually | | | |

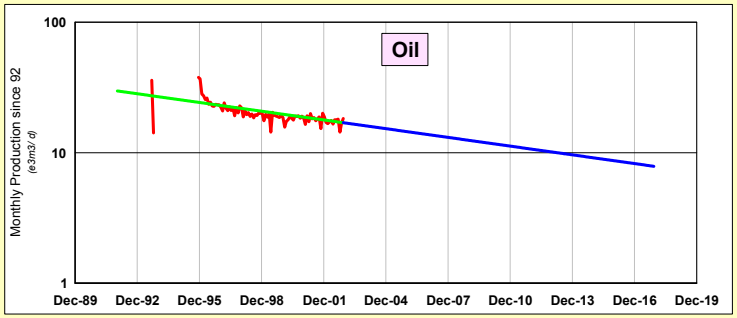
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1992 | 80 | 0 | 24 | 80 | 0 | 24 | |
| 2 | 1993 | 156 | 0 | 8 | 236 | 0 | 32 | |
| 2 | 1994 | 0 | 0 | 0 | 236 | 0 | 32 | |
| 3 | 1995 | 38 | 0 | 11 | 274 | 0 | 43 | |
| 4 | 1996 | 308 | 0 | 20 | 582 | 0 | 63 | |
| 5 | 1997 | 261 | 0 | 1 | 842 | 0 | 64 | |
| 6 | 1998 | 238 | 0 | 0 | 1,080 | 0 | 64 | |
| 7 | 1999 | 226 | 0 | 2 | 1,307 | 0 | 66 | |
| 8 | 2000 | 219 | 0 | 0 | 1,526 | 0 | 66 | |
| 9 | 2001 | 218 | 0 | 0 | 1,744 | 0 | 66 | |
| 10 | 2002 | 208 | 0 | 3 | 1,952 | 0 | 69 | |
| 11 | 2003 | 198 | 0 | 2 | 2,150 | 0 | 71 | |
| 12 | 2004 | 189 | 0 | 2 | 2,339 | 0 | 73 | |
| 13 | 2005 | 179 | 0 | 2 | 2,518 | 0 | 75 | |
| 14 | 2006 | 170 | 0 | 2 | 2,688 | 0 | 77 | |
| 15 | 2007 | 162 | 0 | 2 | 2,850 | 0 | 79 | |
| 16 | 2008 | 154 | 0 | 2 | 3,003 | 0 | 81 | |
| 17 | 2009 | 146 | 0 | 2 | 3,149 | 0 | 83 | |
| 18 | 2010 | 139 | 0 | 2 | 3,288 | 0 | 85 | |
| 19 | 2011 | 132 | 0 | 2 | 3,419 | 0 | 86 | |
| 20 | 2012 | 125 | 0 | 2 | 3,544 | 0 | 88 | |
| 21 | 2013 | 119 | 0 | 1 | 3,663 | 0 | 89 | |
| 22 | 2014 | 113 | 0 | 1 | 3,776 | 0 | 90 | |
| 23 | 2015 | 107 | 0 | 1 | 3,883 | 0 | 92 | |
| 24 | 2016 | 102 | 0 | 1 | 3,985 | 0 | 93 | |
| 25 | 2017 | 97 | 0 | 1 | 4,082 | 0 | 94 | |

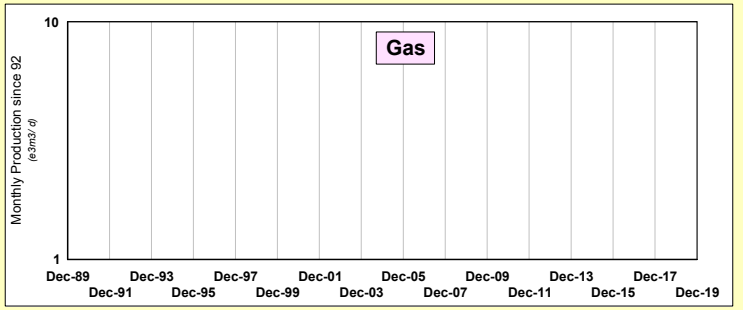
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

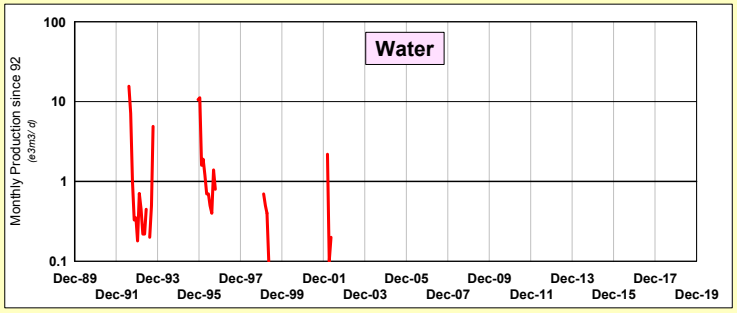
## Monthly Production vs Month
*(1992 to 2002)*

0 Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 17 | m3/mo. |
| Decline Rate: | 5% | per year | Decline Rate: | 5% | per year |
| Decline Factor: | **0.0043** | per month | Decline Factor: | **0.0043** | per month |



Well No.: **T009407**

Well Name: **Talisman (Horiz.#1), Romney 6 - 15 - II**

Status: **Active Well**

MNR Pool: **Romney 5-15-I**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T009407**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 109 | m3 per m3 | 94 | last year | |
| 2002 Water/Oil ratio: | 0.2530 | m3 per m3 | 0.1863 | last 10 years | |
| 2002 Water/ Gas Ratio: | 2.6942 | m3 per e3m3 | 1.7113 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,999** | m3/yr | **188** | e3m3/yr | **506** | m3/yr |
| Cumm to Date: | **9,845** | m3 | **1,072** | e3m3 | **1,834** | m3 |
| Remaining Recoverable: | **4,948** | m3 | **495** | e3m3 | **1,252** | m3 |
| Total Recovery: | **14,794** | m3 | **1,567** | e3m3 | **3,086** | m3 |
| Peak Rate: | 13.4 | m3/d | 1.5 | e3m3/d | based on annual | |
| Peak Rate: | 38.1 | m3/d | 4.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 8.1 | m3/d | 0.9 | e3m3/d | per day based on annual | |
| Current Rate: | 5.5 | m3/d | 0.5 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

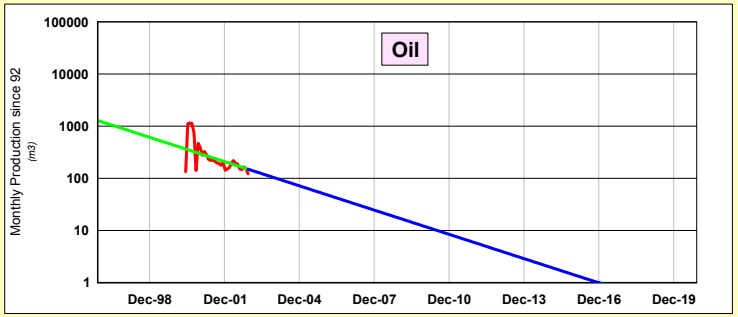
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2000 | 4,904 | 548 | 472 | 4,904 | 548 | 472 | 112 |
| 2 | 2001 | 2,943 | 336 | 857 | 7,847 | 884 | 1,329 | 114 |
| 3 | 2002 | 1,999 | 188 | 506 | 9,845 | 1,072 | 1,834 | 94 |
| 4 | 2003 | 1,492 | 149 | 377 | 11,337 | 1,221 | 2,212 | 100 |
| 5 | 2004 | 1,044 | 104 | 264 | 12,381 | 1,325 | 2,476 | 100 |
| 6 | 2005 | 731 | 73 | 185 | 13,112 | 1,398 | 2,661 | 100 |
| 7 | 2006 | 512 | 51 | 129 | 13,623 | 1,450 | 2,790 | 100 |
| 8 | 2007 | 358 | 36 | 91 | 13,982 | 1,485 | 2,881 | 100 |
| 9 | 2008 | 251 | 25 | 63 | 14,232 | 1,511 | 2,944 | 100 |
| 10 | 2009 | 175 | 18 | 44 | 14,408 | 1,528 | 2,989 | 100 |
| 11 | 2010 | 123 | 12 | 31 | 14,531 | 1,540 | 3,020 | 100 |
| 12 | 2011 | 86 | 9 | 22 | 14,617 | 1,549 | 3,041 | 100 |
| 13 | 2012 | 60 | 6 | 15 | 14,677 | 1,555 | 3,057 | 100 |
| 14 | 2013 | 42 | 4 | 11 | 14,719 | 1,559 | 3,067 | 100 |
| 15 | 2014 | 29 | 3 | 7 | 14,748 | 1,562 | 3,075 | 100 |
| 16 | 2015 | 21 | 2 | 5 | 14,769 | 1,564 | 3,080 | 100 |
| 17 | 2016 | 14 | 1 | 4 | 14,783 | 1,566 | 3,084 | 100 |
| 18 | 2017 | 10 | 1 | 3 | 14,794 | 1,567 | 3,086 | 100 |

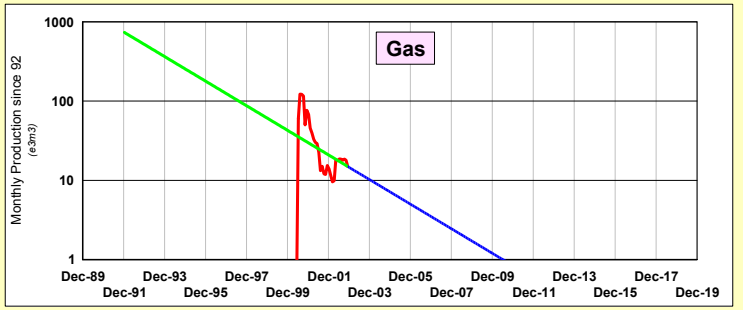
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

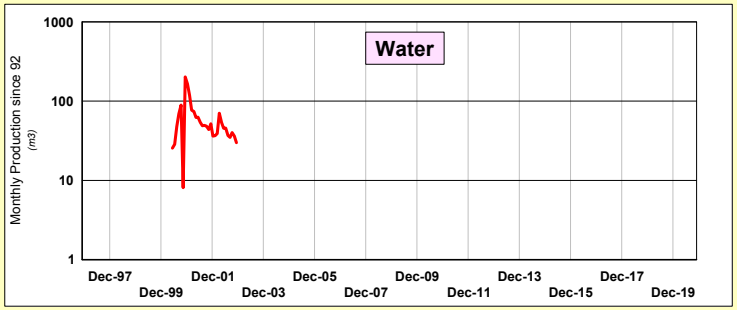
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 150 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | 0.0293 | per month | Decline Factor: | 0.0293 | per month |



Well No.: **T007695**

Well Name: **Telesis et al 34429, Romney 6 - 15 - I**

Status: **Active Well**

MNR Pool: **Romney 5-15-I**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007695**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 47 | m3 per m3 | 263 | last year | |
| 2002 Water/Oil ratio: | 23.2125 | m3 per m3 | 10.8532 | last 10 years | |
| 2002 Water/ Gas Ratio: | 88.1291 | m3 per e3m3 | 230.0177 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **920** | m3/yr | **242** | e3m3/yr | **21,363** | m3/yr |
| Cumm to Date: | **6,005** | m3 | **243** | e3m3 | **55,848** | m3 |
| Remaining Recoverable: | **2,309** | m3 | **607** | e3m3 | **53,603** | m3 |
| Total Recovery: | **8,314** | m3 | **850** | e3m3 | **109,452** | m3 |
| Peak Rate: | 2.9 | m3/d | 0.7 | e3m3/d | based on annual | |
| Peak Rate: | 5.5 | m3/d | 0.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.5 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 2.5 | m3/d | 0.7 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

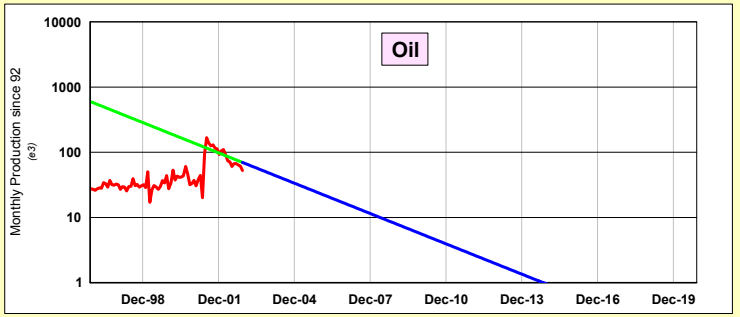
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1990 | 299 | 0 | 0 | 299 | 0 | 0 | 0 |
| 2 | 1991 | 561 | 0 | 0 | 859 | 0 | 0 | 0 |
| 3 | 1992 | 373 | 0 | 378 | 1,232 | 0 | 378 | 1 |
| 4 | 1993 | 289 | 0 | 826 | 1,521 | 0 | 1,204 | 0 |
| 5 | 1994 | 269 | 0 | 1,427 | 1,790 | 0 | 2,631 | 0 |
| 6 | 1995 | 298 | 0 | 2,375 | 2,088 | 0 | 5,007 | 0 |
| 7 | 1996 | 330 | 0 | 2,402 | 2,418 | 0 | 7,409 | 0 |
| 8 | 1997 | 366 | 0 | 2,417 | 2,785 | 0 | 9,826 | 0 |
| 9 | 1998 | 366 | 0 | 2,309 | 3,150 | 0 | 12,135 | 0 |
| 10 | 1999 | 387 | 0 | 2,225 | 3,537 | 0 | 14,360 | 0 |
| 11 | 2000 | 493 | 0 | 5,309 | 4,030 | 0 | 19,669 | 0 |
| 12 | 2001 | 1,054 | 0 | 14,817 | 5,085 | 0 | 34,486 | 0 |
| 13 | 2002 | 920 | 242 | 21,363 | 6,005 | 243 | 55,848 | 263 |
| 14 | 2003 | 696 | 183 | 16,158 | 6,701 | 426 | 72,006 | 263 |
| 15 | 2004 | 487 | 128 | 11,310 | 7,188 | 554 | 83,316 | 263 |
| 16 | 2005 | 341 | 90 | 7,917 | 7,530 | 644 | 91,234 | 263 |
| 17 | 2006 | 239 | 63 | 5,542 | 7,768 | 707 | 96,776 | 263 |
| 18 | 2007 | 167 | 44 | 3,879 | 7,935 | 750 | 100,655 | 263 |
| 19 | 2008 | 117 | 31 | 2,716 | 8,052 | 781 | 103,371 | 263 |
| 20 | 2009 | 82 | 22 | 1,901 | 8,134 | 803 | 105,272 | 263 |
| 21 | 2010 | 57 | 15 | 1,331 | 8,192 | 818 | 106,603 | 263 |
| 22 | 2011 | 40 | 11 | 931 | 8,232 | 828 | 107,534 | 263 |
| 23 | 2012 | 28 | 7 | 652 | 8,260 | 836 | 108,186 | 263 |
| 24 | 2013 | 20 | 5 | 456 | 8,280 | 841 | 108,642 | 263 |
| 25 | 2014 | 14 | 4 | 319 | 8,293 | 845 | 108,962 | 263 |
| 26 | 2015 | 10 | 3 | 224 | 8,303 | 847 | 109,186 | 263 |
| 27 | 2016 | 7 | 2 | 157 | 8,310 | 849 | 109,342 | 263 |
| 28 | 2017 | 5 | 1 | 110 | 8,314 | 850 | 109,452 | 263 |

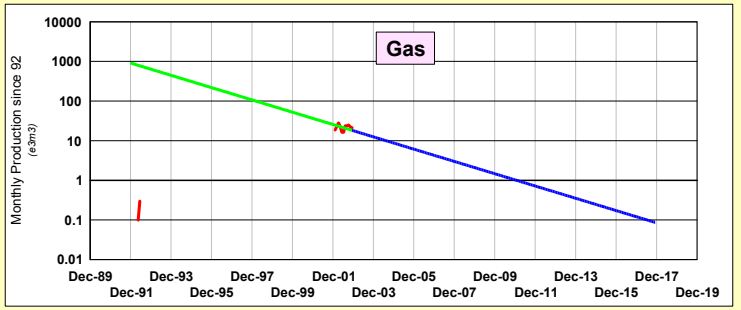
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

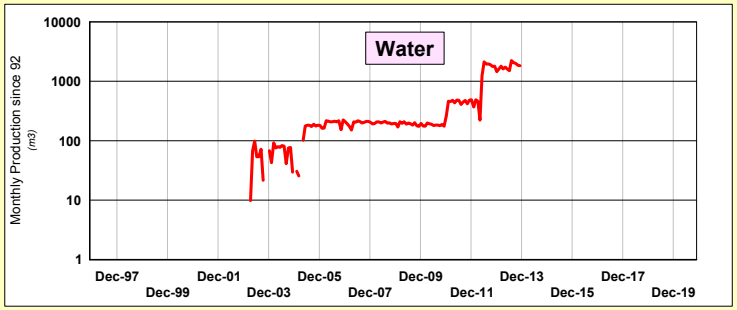
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 263 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 70 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | **0.0293** | per month | Decline Factor: | **0.0293** | per month |



Well No.: **T007414**

Well Name: **Cons et al 34427, Romney 5 - 15 - I**

Status: **Abandoned Well**

MNR Pool: **Romney 5-15-I**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007414**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | ERR | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **1,338** | m3 | **0** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **1,338** | m3 | **0** | e3m3 | **0** | m3 |
| Peak Rate: | 2.3 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | ERR | m3/d | ERR | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 844 | 0 | 0 | 844 | 0 | 0 | 0 |
| 2 | 1990 | 494 | 0 | 0 | 1,338 | 0 | 0 | 0 |
| 2 | 1991 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 1992 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 1993 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 1994 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 1995 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 1996 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 1997 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 1998 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 1999 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2000 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2001 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2002 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2003 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2004 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2005 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2006 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2007 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2008 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2009 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2010 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2011 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2012 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2013 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2014 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2015 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2016 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |
| 2 | 2017 | 0 | 0 | 0 | 1,338 | 0 | 0 | ERR |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

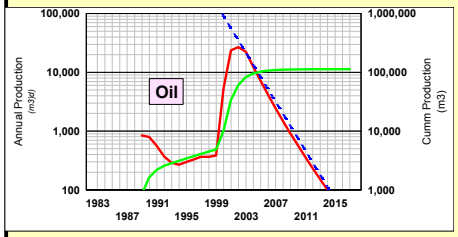
## Monthly Production vs Month + Forecast
***(since 1992)***

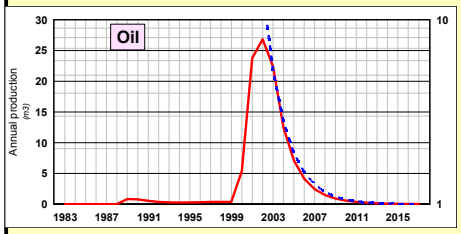
**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |

## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Romney 5-15-I**
TGI Pool: **Renwick Pool**
TGI Field: **Renwick-Fargo Field**
No of Wells: **8**




**38%** Pool Decline

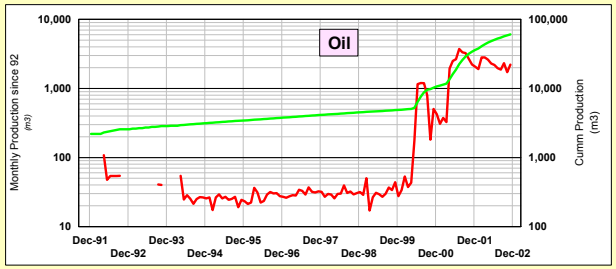
| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

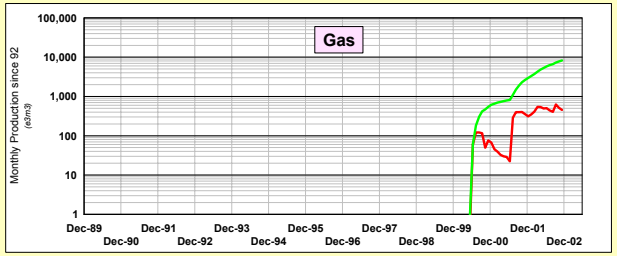
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 26,827 | m3/yr | 5,642 | e3m3/yr | 48,153 | m3/yr |
| Cumm to Date: | 60,879 | m3 | 8,313 | e3m3 | 96,177 | m3 |
| Remaining Recoverable: | 52,609 | m3 | 7,368 | e3m3 | 86,338 | m3 |
| Total Recovery: | 113,488 | m3 | 15,681 | e3m3 | 182,515 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 73 | m3/d | 15 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

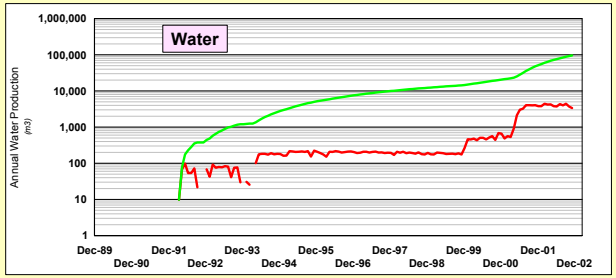
| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1989 | 844 | 0 | 0 | 844 | 0 | 0 | |
| 2 | 2 | 1990 | 793 | 0 | 0 | 1,636 | 0 | 0 | |
| 1 | 3 | 1991 | 561 | 0 | 0 | 2,197 | 0 | 0 | |
| 1 | 4 | 1992 | 373 | 0 | 378 | 2,570 | 0 | 378 | |
| 1 | 5 | 1993 | 289 | 0 | 826 | 2,859 | 0 | 1,204 | 0 |
| 1 | 6 | 1994 | 269 | 0 | 1,427 | 3,128 | 0 | 2,631 | 0 |
| 1 | 7 | 1995 | 298 | 0 | 2,375 | 3,426 | 0 | 5,007 | 0 |
| 1 | 8 | 1996 | 330 | 0 | 2,402 | 3,756 | 0 | 7,409 | 0 |
| 1 | 9 | 1997 | 366 | 0 | 2,417 | 4,122 | 0 | 9,826 | 0 |
| 1 | 10 | 1998 | 366 | 0 | 2,309 | 4,488 | 0 | 12,135 | 0 |
| 1 | 11 | 1999 | 387 | 0 | 2,225 | 4,875 | 0 | 14,360 | 0 |
| 3 | 12 | 2000 | 5,407 | 548 | 5,800 | 10,281 | 549 | 20,160 | 101 |
| 4 | 13 | 2001 | 23,771 | 2,123 | 27,864 | 34,052 | 2,671 | 48,024 | 89 |
| 6 | 14 | 2002 | 26,827 | 5,642 | 48,153 | 60,879 | 8,313 | 96,177 | 210 |
| | 15 | 2003 | 22,379 | 3,012 | 30,798 | 83,258 | 11,325 | 126,974 | 135 |
| | 16 | 2004 | 12,512 | 1,736 | 19,289 | 95,770 | 13,061 | 146,263 | 139 |
| | 17 | 2005 | 7,132 | 1,019 | 12,310 | 102,902 | 14,080 | 158,573 | 143 |
| | 18 | 2006 | 4,148 | 609 | 7,987 | 107,049 | 14,689 | 166,560 | 147 |
| | 19 | 2007 | 2,461 | 370 | 5,257 | 109,511 | 15,059 | 171,817 | 150 |
| | 20 | 2008 | 1,489 | 228 | 3,502 | 111,000 | 15,288 | 175,318 | 153 |
| | 21 | 2009 | 918 | 143 | 2,356 | 111,918 | 15,431 | 177,674 | 156 |
| | 22 | 2010 | 575 | 91 | 1,597 | 112,493 | 15,521 | 179,271 | 158 |
| | 23 | 2011 | 366 | 58 | 1,090 | 112,859 | 15,580 | 180,361 | 159 |
| | 24 | 2012 | 235 | 38 | 748 | 113,094 | 15,617 | 181,109 | 160 |
| | 25 | 2013 | 153 | 25 | 515 | 113,247 | 15,642 | 181,624 | 161 |
| | 26 | 2014 | 101 | 16 | 356 | 113,348 | 15,658 | 181,979 | 161 |
| | 27 | 2015 | 66 | 11 | 246 | 113,414 | 15,669 | 182,225 | 161 |
| | 28 | 2016 | 44 | 7 | 171 | 113,458 | 15,676 | 182,396 | 161 |
| | 29 | 2017 | 30 | 5 | 119 | 113,488 | 15,681 | 182,515 | 161 |
| | To date: | | 60,879 | 8,313 | 96,177 | | | | 0.1417 |

## Monthly Production vs Month
*(1992 to 2002)*

42736



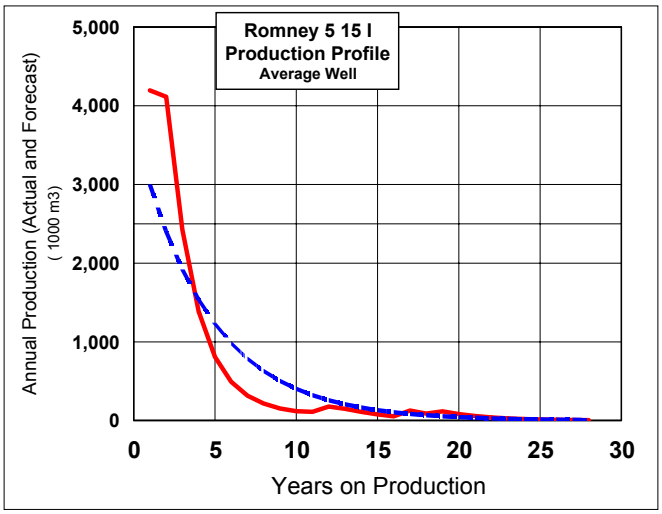
# Romney 5-15-I

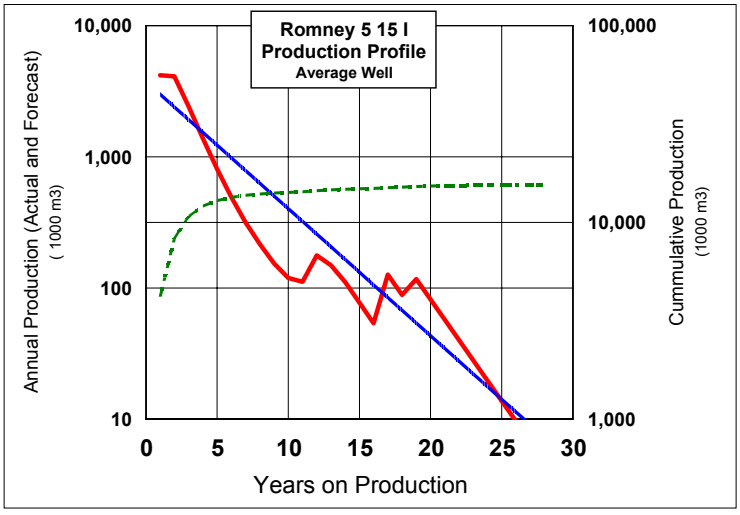
# Average Well

GOR: 90
WOR: 1.580

| Prod Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|
| 1 | 3,000 | 270 | 4,739 | 3,000 | 270 | 4,739 | 90 |
| 2 | 2,400 | 216 | 3,792 | 5,400 | 486 | 8,531 | 90 |
| 3 | 1,920 | 173 | 3,033 | 7,320 | 659 | 11,564 | 90 |
| 4 | 1,536 | 138 | 2,427 | 8,856 | 797 | 13,991 | 90 |
| 5 | 1,229 | 111 | 1,941 | 10,085 | 908 | 15,932 | 90 |
| 6 | 983 | 88 | 1,553 | 11,068 | 996 | 17,485 | 90 |
| 7 | 786 | 71 | 1,242 | 11,854 | 1,067 | 18,727 | 90 |
| 8 | 629 | 57 | 994 | 12,483 | 1,124 | 19,721 | 90 |
| 9 | 503 | 45 | 795 | 12,987 | 1,169 | 20,516 | 90 |
| 10 | 403 | 36 | 636 | 13,389 | 1,205 | 21,153 | 90 |
| 11 | 322 | 29 | 509 | 13,712 | 1,234 | 21,661 | 90 |
| 12 | 258 | 23 | 407 | 13,969 | 1,257 | 22,069 | 90 |
| 13 | 206 | 19 | 326 | 14,175 | 1,276 | 22,394 | 90 |
| 14 | 165 | 15 | 261 | 14,340 | 1,291 | 22,655 | 90 |
| 15 | 132 | 12 | 208 | 14,472 | 1,303 | 22,863 | 90 |
| 16 | 106 | 9 | 167 | 14,578 | 1,312 | 23,030 | 90 |
| 17 | 84 | 8 | 133 | 14,662 | 1,320 | 23,163 | 90 |
| 18 | 68 | 6 | 107 | 14,730 | 1,326 | 23,270 | 90 |
| 19 | 54 | 5 | 85 | 14,784 | 1,331 | 23,356 | 90 |
| 20 | 43 | 4 | 68 | 14,827 | 1,334 | 23,424 | 90 |
| 21 | 35 | 3 | 55 | 14,862 | 1,338 | 23,478 | 90 |
| 22 | 28 | 2 | 44 | 14,889 | 1,340 | 23,522 | 90 |
| 23 | 22 | 2 | 35 | 14,911 | 1,342 | 23,557 | 90 |
| 24 | 18 | 2 | 28 | 14,929 | 1,344 | 23,585 | 90 |
| 25 | 14 | 1 | 22 | 14,943 | 1,345 | 23,608 | 90 |
| 26 | 11 | 1 | 18 | 14,955 | 1,346 | 23,625 | 90 |
| 27 | 9 | 1 | 14 | 14,964 | 1,347 | 23,640 | 90 |
| 28 | 7 | 1 | 11 | 14,971 | 1,347 | 23,651 | 90 |
| 29 | 6 | 1 | 9 | 14,977 | 1,348 | 23,660 | 90 |
| 30 | 5 | 0 | 7 | 14,981 | 1,348 | 23,668 | 90 |
| 31 | 4 | 0 | 6 | 14,985 | 1,349 | 23,674 | 90 |
| 32 | 3 | 0 | 5 | 14,988 | 1,349 | 23,678 | 90 |
| | 14,988 | 1,349 | 23,678 | | | | |

| Average Well Oil | | |
|---|---|---|
| Start: | 3000 | m3 per year |
| Decline Rate | 20.0% | per year |
| Decline Facto | 0.0184 | per month |
| Recovery | 14,988 | m3 |



Well No.: **T010526**

Well Name: **TLM No. 2 (Horiz.#1), Romney 7 - 16 - II**

Status: **Active Well**

MNR Pool: **Romney 5-15-I**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T010526**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 55 | m3 per m3 | 55 | last year |
| 2002 Water/Oil ratio: | 0.1776 | m3 per m3 | 0.1776 | last 10 years |
| 2002 Water/ Gas Ratio: | 3.2012 | m3 per e3m3 | 3.2012 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **869** | m3/yr | **48** | e3m3/yr | **154** | m3/yr |
| Cumm to Date: | **869** | m3 | **48** | e3m3 | **154** | m3 |
| Remaining Recoverable: | **15,135** | m3 | **0** | e3m3 | **2,688** | m3 |
| Total Recovery: | **16,004** | m3 | **48** | e3m3 | **2,842** | m3 |
| Peak Rate: | 20.7 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 28.6 | m3/d | 1.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 20.7 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 2.4 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 50% | | annually | | | |

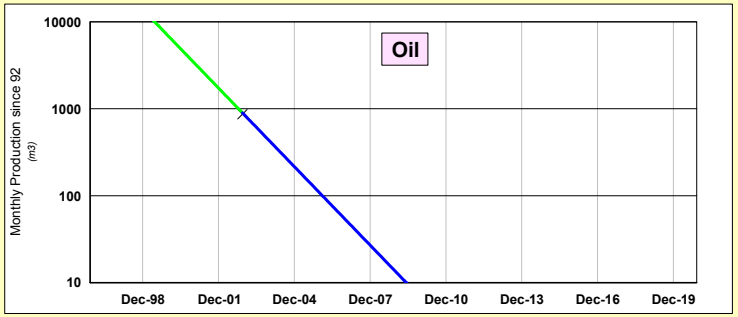
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2001 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2002 | 869 | 48 | 154 | 869 | 48 | 154 | 55 |
| 2 | 2003 | 7,568 | 0 | 1,344 | 8,437 | 48 | 1,498 | 0 |
| 3 | 2004 | 3,784 | 0 | 672 | 12,220 | 48 | 2,170 | 0 |
| 4 | 2005 | 1,892 | 0 | 336 | 14,112 | 48 | 2,506 | 0 |
| 5 | 2006 | 946 | 0 | 168 | 15,058 | 48 | 2,674 | 0 |
| 6 | 2007 | 473 | 0 | 84 | 15,531 | 48 | 2,758 | 0 |
| 7 | 2008 | 236 | 0 | 42 | 15,768 | 48 | 2,800 | 0 |
| 8 | 2009 | 118 | 0 | 21 | 15,886 | 48 | 2,821 | 0 |
| 9 | 2010 | 59 | 0 | 10 | 15,945 | 48 | 2,832 | 0 |
| 10 | 2011 | 30 | 0 | 5 | 15,975 | 48 | 2,837 | 0 |
| 11 | 2012 | 15 | 0 | 3 | 15,990 | 48 | 2,839 | 0 |
| 12 | 2013 | 7 | 0 | 1 | 15,997 | 48 | 2,841 | 0 |
| 13 | 2014 | 4 | 0 | 1 | 16,001 | 48 | 2,841 | 0 |
| 14 | 2015 | 2 | 0 | 0 | 16,002 | 48 | 2,842 | 0 |
| 15 | 2016 | 1 | 0 | 0 | 16,003 | 48 | 2,842 | 0 |
| 16 | 2017 | 0 | 0 | 0 | 16,004 | 48 | 2,842 | 0 |

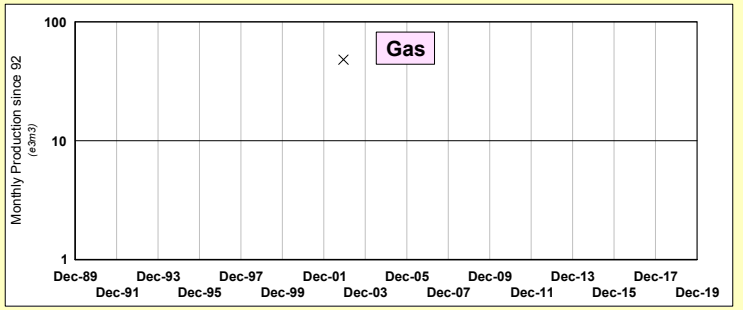
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

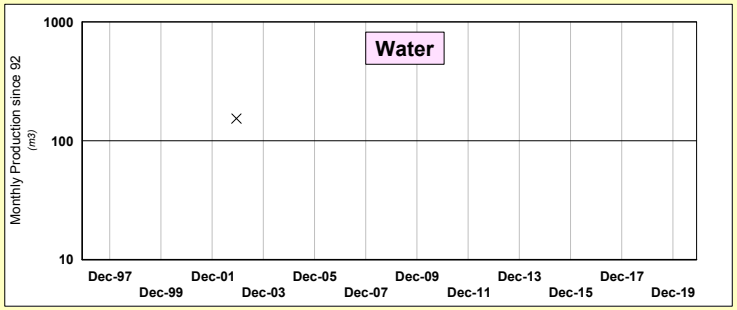
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 900 | m3/mo. |
| Decline Rate: | 50% | per year | Decline Rate: | 50% | per year |
| Decline Factor: | **0.0561** | per month | Decline Factor: | **0.0561** | per month |



Well No.: **T010491**
Well Name: **ERR**
Status: **ERR**
MNR Pool: **Romney 5-15-I**
TGI Pool: **ERR**
TGI Field: **ERR**

Well: **T010491**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 313 | m3 per m3 | 313 | last year |
| 2002 Water/Oil ratio: | 0.7714 | m3 per m3 | 0.7714 | last 10 years |
| 2002 Water/ Gas Ratio: | 2.4654 | m3 per e3m3 | 2.4654 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,686** | m3/yr | **528** | e3m3/yr | **1,301** | m3/yr |
| Cumm to Date: | **1,686** | m3 | **528** | e3m3 | **1,301** | m3 |
| Remaining Recoverable: | **3,824** | m3 | **1,147** | e3m3 | **2,950** | m3 |
| Total Recovery: | **5,510** | m3 | **1,675** | e3m3 | **4,250** | m3 |
| Peak Rate: | 4.6 | m3/d | 1.4 | e3m3/d | based on annual | |
| Peak Rate: | 29.2 | m3/d | 6.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.7 | m3/d | 1.4 | e3m3/d | per day based on annual | |
| Current Rate: | 4.6 | m3/d | 1.4 | e3m3/d | | |
| Current decline rate: | 35% | | annually | | | |

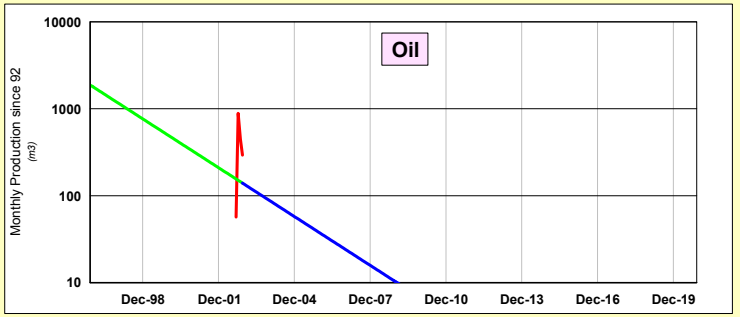
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2001 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2002 | 1,686 | 528 | 1,301 | 1,686 | 528 | 1,301 | 313 |
| 2 | 2003 | 1,341 | 402 | 1,034 | 3,027 | 930 | 2,335 | 300 |
| 3 | 2004 | 871 | 261 | 672 | 3,898 | 1,191 | 3,007 | 300 |
| 4 | 2005 | 566 | 170 | 437 | 4,464 | 1,361 | 3,444 | 300 |
| 5 | 2006 | 368 | 110 | 284 | 4,833 | 1,471 | 3,728 | 300 |
| 6 | 2007 | 239 | 72 | 185 | 5,072 | 1,543 | 3,912 | 300 |
| 7 | 2008 | 156 | 47 | 120 | 5,227 | 1,590 | 4,032 | 300 |
| 8 | 2009 | 101 | 30 | 78 | 5,329 | 1,620 | 4,110 | 300 |
| 9 | 2010 | 66 | 20 | 51 | 5,394 | 1,640 | 4,161 | 300 |
| 10 | 2011 | 43 | 13 | 33 | 5,437 | 1,653 | 4,194 | 300 |
| 11 | 2012 | 28 | 8 | 21 | 5,465 | 1,661 | 4,215 | 300 |
| 12 | 2013 | 18 | 5 | 14 | 5,483 | 1,667 | 4,229 | 300 |
| 13 | 2014 | 12 | 4 | 9 | 5,495 | 1,670 | 4,238 | 300 |
| 14 | 2015 | 8 | 2 | 6 | 5,502 | 1,672 | 4,244 | 300 |
| 15 | 2016 | 5 | 1 | 4 | 5,507 | 1,674 | 4,248 | 300 |
| 16 | 2017 | 3 | 1 | 2 | 5,510 | 1,675 | 4,250 | 300 |

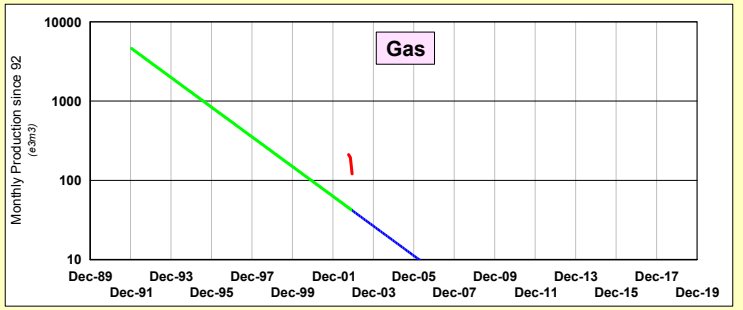
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

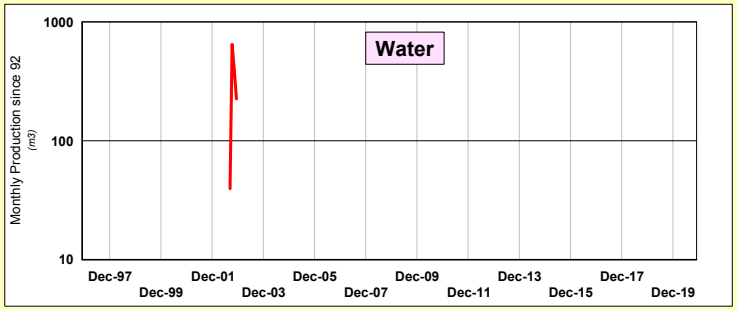
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 300 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 140 | m3/mo. |
| Decline Rate: | 35% | per year | Decline Rate: | 35% | per year |
| Decline Factor: | **0.0353** | per month | Decline Factor: | **0.0353** | per month |



Well No.: **T010033**

Well Name: **Talisman No. 1 (Horiz.#1), Romney 7 - 16 - II**

Status: **Active Well**

MNR Pool: **Romney 5-15-I**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T010033**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 230 | m3 per m3 | 326 | last year | |
| 2002 Water/Oil ratio: | 3.3392 | m3 per m3 | 2.0386 | last 10 years | |
| 2002 Water/ Gas Ratio: | 10.2308 | m3 per e3m3 | 8.8767 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **3,712** | m3/yr | **1,212** | e3m3/yr | **12,395** | m3/yr |
| Cumm to Date: | **8,585** | m3 | **1,972** | e3m3 | **17,502** | m3 |
| Remaining Recoverable: | **3,915** | m3 | **1,174** | e3m3 | **13,072** | m3 |
| Total Recovery: | **12,500** | m3 | **3,146** | e3m3 | **30,574** | m3 |
| Peak Rate: | 13.3 | m3/d | 3.3 | e3m3/d | based on annual | |
| Peak Rate: | 41.0 | m3/d | 6.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 10.2 | m3/d | 3.3 | e3m3/d | per day based on annual | |
| Current Rate: | 10.2 | m3/d | 3.3 | e3m3/d | | |
| Current decline rate: | 45% | | annually | | | |

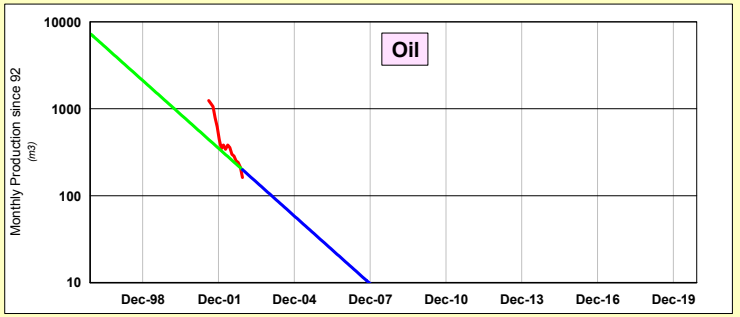
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2001 | 4,873 | 760 | 5,108 | 4,873 | 760 | 5,108 | 156 |
| 2 | 2002 | 3,712 | 1,212 | 12,395 | 8,585 | 1,972 | 17,502 | 326 |
| 3 | 2003 | 1,762 | 529 | 5,883 | 10,347 | 2,500 | 23,385 | 300 |
| 4 | 2004 | 969 | 291 | 3,236 | 11,316 | 2,791 | 26,621 | 300 |
| 5 | 2005 | 533 | 160 | 1,780 | 11,849 | 2,951 | 28,401 | 300 |
| 6 | 2006 | 293 | 88 | 979 | 12,142 | 3,039 | 29,380 | 300 |
| 7 | 2007 | 161 | 48 | 538 | 12,304 | 3,087 | 29,918 | 300 |
| 8 | 2008 | 89 | 27 | 296 | 12,392 | 3,114 | 30,214 | 300 |
| 9 | 2009 | 49 | 15 | 163 | 12,441 | 3,128 | 30,377 | 300 |
| 10 | 2010 | 27 | 8 | 90 | 12,468 | 3,136 | 30,467 | 300 |
| 11 | 2011 | 15 | 4 | 49 | 12,483 | 3,141 | 30,516 | 300 |
| 12 | 2012 | 8 | 2 | 27 | 12,491 | 3,143 | 30,543 | 300 |
| 13 | 2013 | 4 | 1 | 15 | 12,495 | 3,145 | 30,558 | 300 |
| 14 | 2014 | 2 | 1 | 8 | 12,498 | 3,145 | 30,566 | 300 |
| 15 | 2015 | 1 | 0 | 5 | 12,499 | 3,146 | 30,570 | 300 |
| 16 | 2016 | 1 | 0 | 2 | 12,500 | 3,146 | 30,573 | 300 |
| 17 | 2017 | 0 | 0 | 1 | 12,500 | 3,146 | 30,574 | 300 |

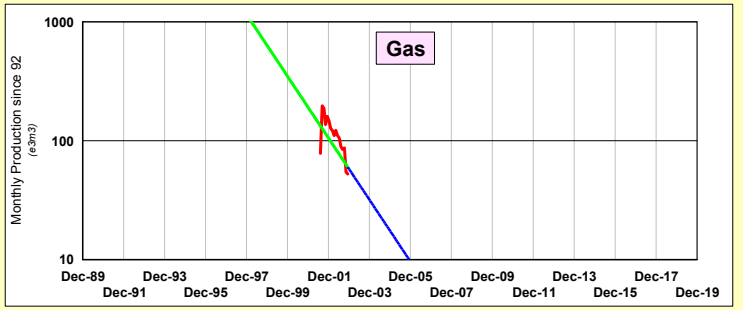
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

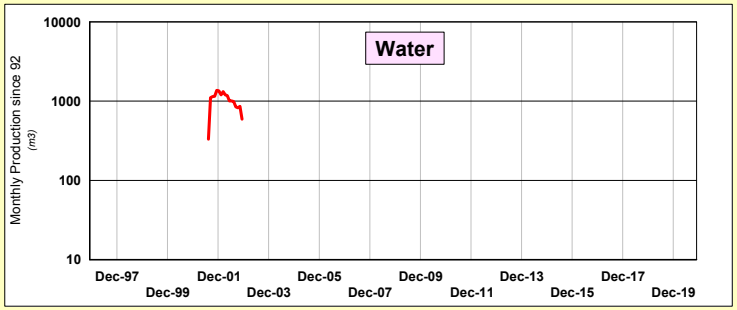
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 300 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 200 | m3/mo. |
| Decline Rate: | 45% | per year | Decline Rate: | 45% | per year |
| Decline Factor: | **0.0486** | per month | Decline Factor: | **0.0486** | per month |



Well No.: **T009874**

Well Name: **Talisman No.2 (Horiz.#1), Romney 5 - 203 - I**

Status: **Active Well**

MNR Pool: **Romney 5-15-I**

TGI Pool: **Lake Erie 233-L Romney 203-I Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T009874**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 138 | m3 per m3 | 220 | last year | |
| 2002 Water/Oil ratio: | 0.9054 | m3 per m3 | 0.6709 | last 10 years | |
| 2002 Water/ Gas Ratio: | 4.1112 | m3 per e3m3 | 4.8683 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **12,448** | m3/yr | **2,741** | e3m3/yr | **11,270** | m3/yr |
| Cumm to Date: | **27,341** | m3 | **3,768** | e3m3 | **18,342** | m3 |
| Remaining Recoverable: | **11,351** | m3 | **2,497** | e3m3 | **10,277** | m3 |
| Total Recovery: | **38,692** | m3 | **6,265** | e3m3 | **28,619** | m3 |
| Peak Rate: | 40.8 | m3/d | 7.5 | e3m3/d | based on annual | |
| Peak Rate: | 74.3 | m3/d | 10.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 34.1 | m3/d | 7.5 | e3m3/d | per day based on annual | |
| Current Rate: | 34.1 | m3/d | 7.5 | e3m3/d | | |
| Current decline rate: | 50% | | annually | | | |

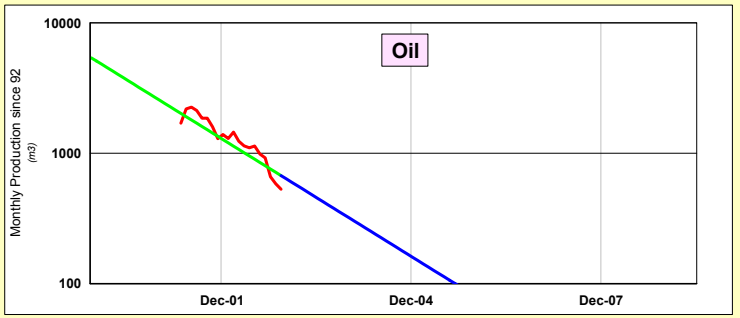
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2001 | 14,894 | 1,026 | 7,072 | 14,894 | 1,026 | 7,072 | 69 |
| 2 | 2002 | 12,448 | 2,741 | 11,270 | 27,341 | 3,768 | 18,342 | 220 |
| 3 | 2003 | 5,676 | 1,249 | 5,139 | 33,017 | 5,016 | 23,481 | 220 |
| 4 | 2004 | 2,838 | 624 | 2,569 | 35,855 | 5,641 | 26,050 | 220 |
| 5 | 2005 | 1,419 | 312 | 1,285 | 37,274 | 5,953 | 27,335 | 220 |
| 6 | 2006 | 709 | 156 | 642 | 37,983 | 6,109 | 27,977 | 220 |
| 7 | 2007 | 355 | 78 | 321 | 38,338 | 6,187 | 28,299 | 220 |
| 8 | 2008 | 177 | 39 | 161 | 38,515 | 6,226 | 28,459 | 220 |
| 9 | 2009 | 89 | 20 | 80 | 38,604 | 6,246 | 28,539 | 220 |
| 10 | 2010 | 44 | 10 | 40 | 38,648 | 6,255 | 28,580 | 220 |
| 11 | 2011 | 22 | 5 | 20 | 38,671 | 6,260 | 28,600 | 220 |
| 12 | 2012 | 11 | 2 | 10 | 38,682 | 6,263 | 28,610 | 220 |
| 13 | 2013 | 6 | 1 | 5 | 38,687 | 6,264 | 28,615 | 220 |
| 14 | 2014 | 3 | 1 | 3 | 38,690 | 6,264 | 28,617 | 220 |
| 15 | 2015 | 1 | 0 | 1 | 38,691 | 6,265 | 28,619 | 220 |
| 16 | 2016 | 1 | 0 | 1 | 38,692 | 6,265 | 28,619 | 220 |
| 17 | 2017 | 0 | 0 | 0 | 38,692 | 6,265 | 28,619 | 220 |

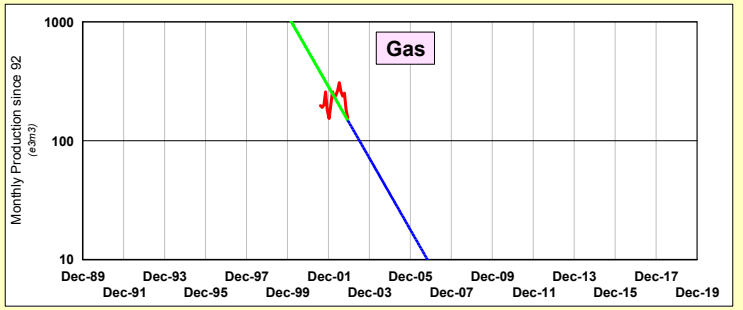
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

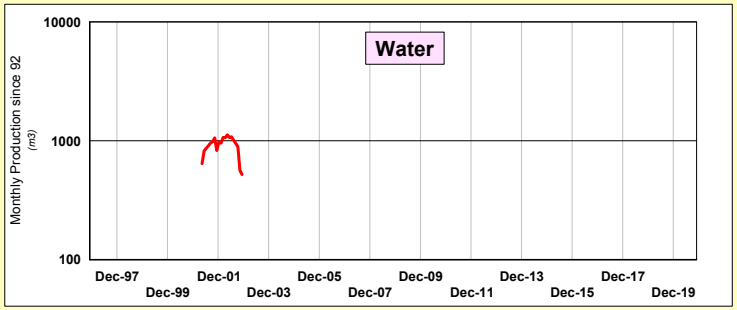
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 220 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 675 | m3/mo. |
| Decline Rate: | 50% | per year | Decline Rate: | 50% | per year |
| Decline Factor: | **0.0561** | per month | Decline Factor: | **0.0561** | per month |



Well No.: **T009533**

Well Name: **Talisman (Horiz.#1), Romney 5 - 203 - I**

Status: **Active Well**

MNR Pool: **Romney 5-15-I**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T009533**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 131 | m3 per m3 | 132 | last year |
| 2002 Water/Oil ratio: | 0.2243 | m3 per m3 | 0.2294 | last 10 years |
| 2002 Water/ Gas Ratio: | 1.7047 | m3 per e3m3 | 1.7486 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **5,194** | m3/yr | **683** | e3m3/yr | **1,165** | m3/yr |
| Cumm to Date: | **5,209** | m3 | **683** | e3m3 | **1,195** | m3 |
| Remaining Recoverable: | **11,126** | m3 | **1,446** | e3m3 | **2,496** | m3 |
| Total Recovery: | **16,335** | m3 | **2,130** | e3m3 | **3,691** | m3 |
| Peak Rate: | 14.2 | m3/d | 1.9 | e3m3/d | based on annual | |
| Peak Rate: | 31.2 | m3/d | 5.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 14.2 | m3/d | 1.9 | e3m3/d | | |
| Current decline rate: | 35% | | annually | | | |

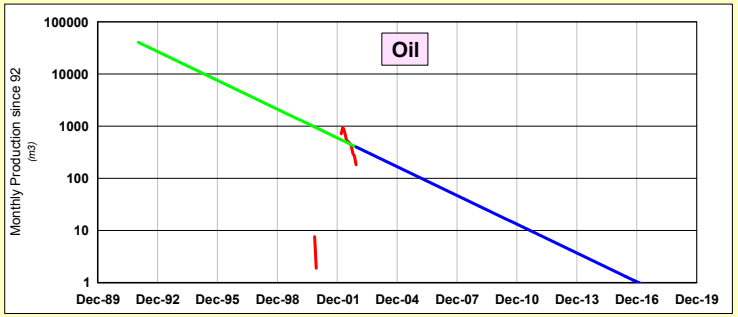
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2000 | 10 | 0 | 20 | 10 | 0 | 20 | 0 |
| 2 | 2001 | 6 | 0 | 10 | 16 | 0 | 30 | 0 |
| 3 | 2002 | 5,194 | 683 | 1,165 | 5,209 | 683 | 1,195 | 132 |
| 4 | 2003 | 3,845 | 500 | 863 | 9,055 | 1,183 | 2,058 | 130 |
| 5 | 2004 | 2,519 | 327 | 565 | 11,573 | 1,511 | 2,623 | 130 |
| 6 | 2005 | 1,650 | 214 | 370 | 13,223 | 1,725 | 2,993 | 130 |
| 7 | 2006 | 1,081 | 140 | 242 | 14,303 | 1,866 | 3,235 | 130 |
| 8 | 2007 | 708 | 92 | 159 | 15,011 | 1,958 | 3,394 | 130 |
| 9 | 2008 | 464 | 60 | 104 | 15,475 | 2,018 | 3,498 | 130 |
| 10 | 2009 | 304 | 39 | 68 | 15,778 | 2,057 | 3,566 | 130 |
| 11 | 2010 | 199 | 26 | 45 | 15,977 | 2,083 | 3,610 | 130 |
| 12 | 2011 | 130 | 17 | 29 | 16,108 | 2,100 | 3,640 | 130 |
| 13 | 2012 | 85 | 11 | 19 | 16,193 | 2,111 | 3,659 | 130 |
| 14 | 2013 | 56 | 7 | 13 | 16,249 | 2,119 | 3,671 | 130 |
| 15 | 2014 | 37 | 5 | 8 | 16,285 | 2,123 | 3,680 | 130 |
| 16 | 2015 | 24 | 3 | 5 | 16,309 | 2,126 | 3,685 | 130 |
| 17 | 2016 | 16 | 2 | 4 | 16,325 | 2,128 | 3,688 | 130 |
| 18 | 2017 | 10 | 1 | 2 | 16,335 | 2,130 | 3,691 | 130 |

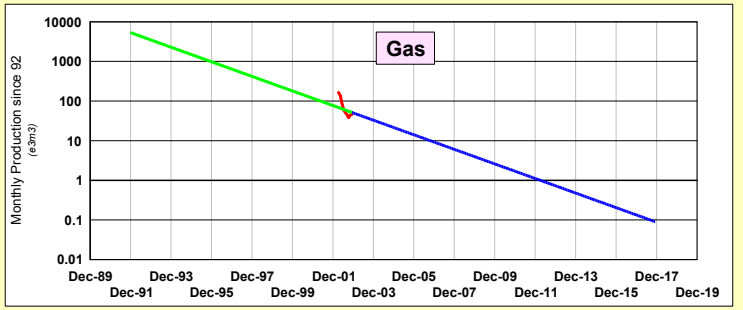
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

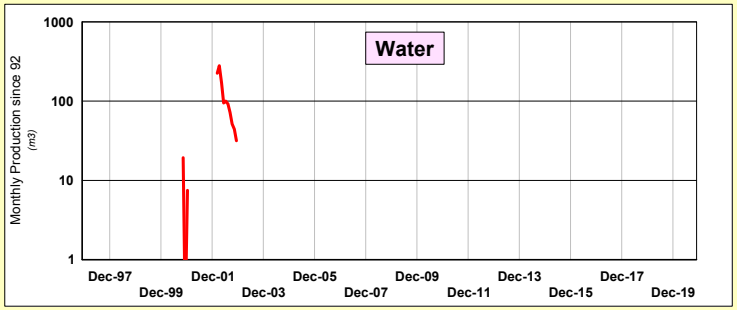
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 130 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 400 | m3/mo. |
| Decline Rate: | 35% | per year | Decline Rate: | 35% | per year |
| Decline Factor: | **0.0346** | per month | Decline Factor: | **0.0346** | per month |



Well No.: **T007261**

Well Name: **Cons et al 34344, Romney 3 - 14 - II**

Status: **Active Well**

MNR Pool: **Romney 6-13-III**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007261**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 91 | m3 per m3 | 33 | last year | |
| 2002 Water/Oil ratio: | 2.2941 | m3 per m3 | 2.0941 | last 10 years | |
| 2002 Water/ Gas Ratio: | 69.7371 | m3 per e3m3 | 23.0731 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **763** | m3/yr | **25** | e3m3/yr | **1,750** | m3/yr |
| Cumm to Date: | **34,789** | m3 | **1,061** | e3m3 | **24,490** | m3 |
| Remaining Recoverable: | **4,016** | m3 | **201** | e3m3 | **9,213** | m3 |
| Total Recovery: | **38,805** | m3 | **1,262** | e3m3 | **33,703** | m3 |
| Peak Rate: | 32.3 | m3/d | 0.5 | e3m3/d | based on annual | |
| Peak Rate: | 10.3 | m3/d | 1.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 32.3 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 2.1 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

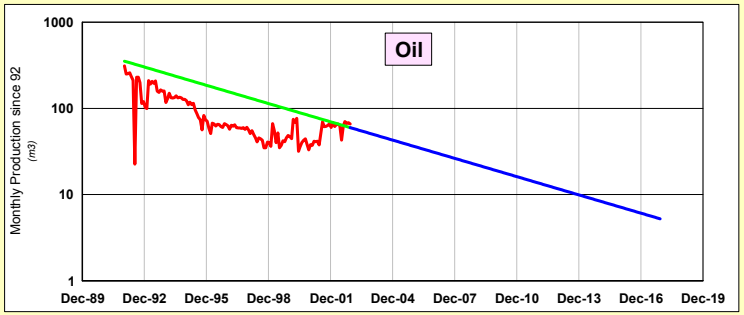
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 77 | 0 | 0 | 77 | 0 | 0 | 0 |
| 2 | 1989 | 11,793 | 0 | 0 | 11,870 | 0 | 0 | 0 |
| 3 | 1990 | 7,672 | 0 | 0 | 19,542 | 0 | 0 | 0 |
| 4 | 1991 | 3,552 | 0 | 0 | 23,094 | 0 | 0 | 0 |
| 5 | 1992 | 2,439 | 187 | 2,714 | 25,533 | 187 | 2,714 | 76 |
| 6 | 1993 | 2,011 | 116 | 2,633 | 27,545 | 303 | 5,347 | 58 |
| 7 | 1994 | 1,592 | 121 | 2,157 | 29,137 | 424 | 7,504 | 76 |
| 8 | 1995 | 1,126 | 122 | 2,138 | 30,263 | 546 | 9,642 | 108 |
| 9 | 1996 | 761 | 113 | 2,089 | 31,025 | 659 | 11,731 | 148 |
| 10 | 1997 | 726 | 119 | 2,035 | 31,751 | 778 | 13,765 | 164 |
| 11 | 1998 | 543 | 99 | 2,222 | 32,294 | 877 | 15,987 | 183 |
| 12 | 1999 | 540 | 77 | 2,250 | 32,833 | 954 | 18,237 | 143 |
| 13 | 2000 | 579 | 47 | 2,520 | 33,412 | 1,001 | 20,757 | 82 |
| 14 | 2001 | 613 | 35 | 1,983 | 34,026 | 1,036 | 22,740 | 57 |
| 15 | 2002 | 763 | 25 | 1,750 | 34,789 | 1,061 | 24,490 | 33 |
| 16 | 2003 | 660 | 33 | 1,514 | 35,449 | 1,094 | 26,004 | 50 |
| 17 | 2004 | 561 | 28 | 1,287 | 36,010 | 1,122 | 27,292 | 50 |
| 18 | 2005 | 477 | 24 | 1,094 | 36,487 | 1,146 | 28,386 | 50 |
| 19 | 2006 | 405 | 20 | 930 | 36,892 | 1,167 | 29,315 | 50 |
| 20 | 2007 | 345 | 17 | 790 | 37,237 | 1,184 | 30,106 | 50 |
| 21 | 2008 | 293 | 15 | 672 | 37,529 | 1,198 | 30,778 | 50 |
| 22 | 2009 | 249 | 12 | 571 | 37,778 | 1,211 | 31,349 | 50 |
| 23 | 2010 | 212 | 11 | 485 | 37,990 | 1,221 | 31,834 | 50 |
| 24 | 2011 | 180 | 9 | 413 | 38,170 | 1,230 | 32,247 | 50 |
| 25 | 2012 | 153 | 8 | 351 | 38,323 | 1,238 | 32,598 | 50 |
| 26 | 2013 | 130 | 6 | 298 | 38,453 | 1,245 | 32,896 | 50 |
| 27 | 2014 | 110 | 6 | 253 | 38,563 | 1,250 | 33,149 | 50 |
| 28 | 2015 | 94 | 5 | 215 | 38,657 | 1,255 | 33,364 | 50 |
| 29 | 2016 | 80 | 4 | 183 | 38,737 | 1,259 | 33,548 | 50 |
| 30 | 2017 | 68 | 3 | 156 | 38,805 | 1,262 | 33,703 | 50 |

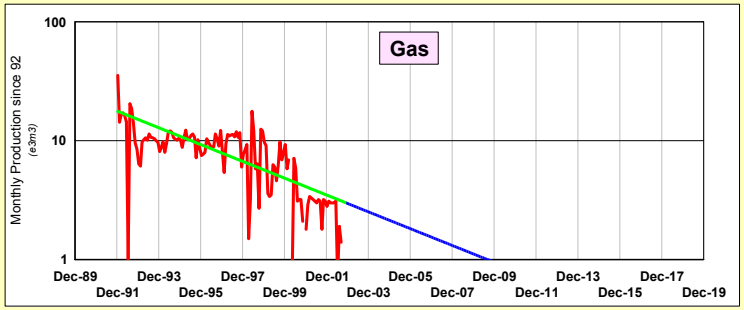
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

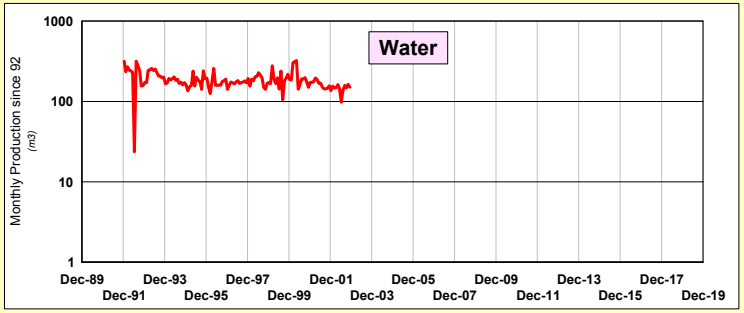
## Monthly Production vs Month + Forecast
*(since 1992)*

32.8964613 **Basis--->** **OIl** 63.5

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 50 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 60 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T007155**

Well Name: **Cons et al 34281, Romney 6 - 13 - III**

Status: **Active Well**

MNR Pool: **Romney 6-13-III**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007155**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 155 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 6.4957 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 41.8509 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **53,173** | m3 | **2,125** | e3m3 | **88,924** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **53,173** | m3 | **2,125** | e3m3 | **88,924** | m3 |

| | | | | | |
|---|---|---|---|---|---|
| Peak Rate: | 44.3 | m3/d | 1.5 | e3m3/d | based on annual |
| Peak Rate: | 17.2 | m3/d | 2.3 | e3m3/d | since '93 based on monthly |
| Second Year Production: | 44.3 | m3/d | 0.0 | e3m3/d | per day based on annual |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | |
| Current decline rate: | 20% | | annually | | |

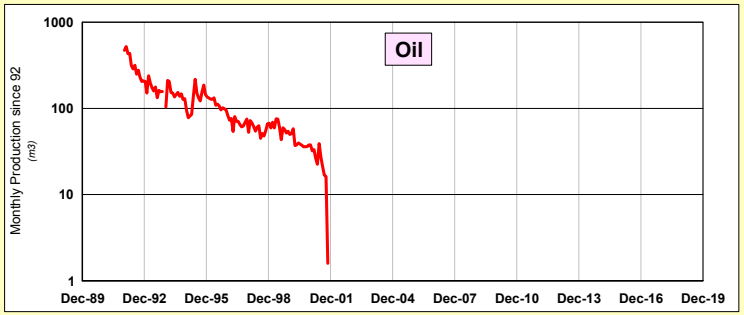
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1987 | 1,604 | 0 | 0 | 1,604 | 0 | 0 | 0 |
| 2 | 1988 | 16,178 | 0 | 0 | 17,783 | 0 | 0 | 0 |
| 3 | 1989 | 9,439 | 0 | 0 | 27,221 | 0 | 0 | 0 |
| 4 | 1990 | 7,998 | 0 | 0 | 35,219 | 0 | 0 | 0 |
| 5 | 1991 | 4,264 | 0 | 0 | 39,483 | 0 | 0 | 0 |
| 6 | 1992 | 3,963 | 531 | 8,967 | 43,446 | 531 | 8,967 | 134 |
| 7 | 1993 | 1,911 | 259 | 8,599 | 45,357 | 790 | 17,566 | 135 |
| 8 | 1994 | 1,803 | 332 | 9,887 | 47,159 | 1,121 | 27,453 | 184 |
| 9 | 1995 | 1,592 | 303 | 8,020 | 48,751 | 1,425 | 35,473 | 191 |
| 10 | 1996 | 1,378 | 285 | 10,140 | 50,129 | 1,710 | 45,613 | 207 |
| 11 | 1997 | 842 | 173 | 9,245 | 50,971 | 1,883 | 54,858 | 205 |
| 12 | 1998 | 698 | 99 | 9,668 | 51,669 | 1,982 | 64,526 | 142 |
| 13 | 1999 | 733 | 101 | 8,819 | 52,402 | 2,083 | 73,345 | 138 |
| 14 | 2000 | 496 | 25 | 8,491 | 52,898 | 2,109 | 81,836 | 51 |
| 15 | 2001 | 275 | 16 | 7,088 | 53,173 | 2,125 | 88,924 | 58 |
| 15 | 2002 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2003 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2004 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2005 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2006 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2007 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2008 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2009 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2010 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2011 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2012 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2013 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2014 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2015 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2016 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |
| 15 | 2017 | 0 | 0 | 0 | 53,173 | 2,125 | 88,924 | ERR |

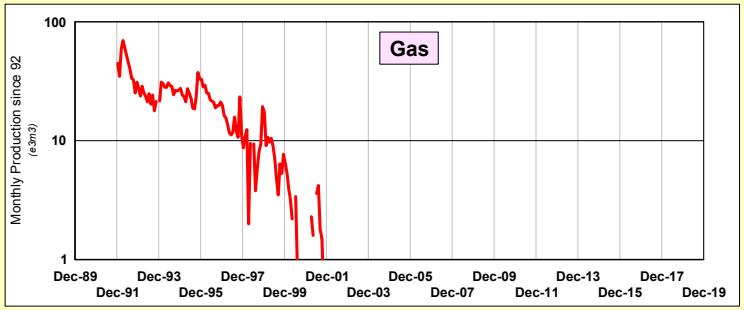
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

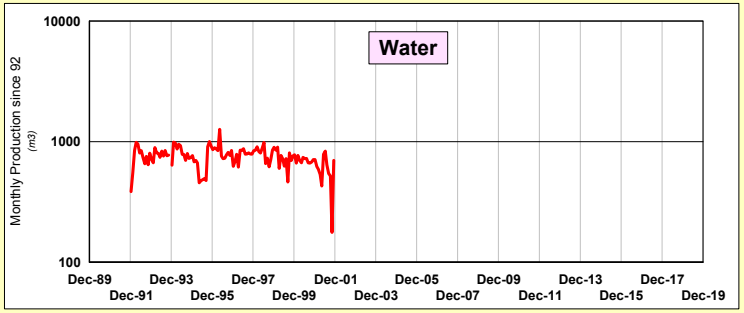
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 155 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |

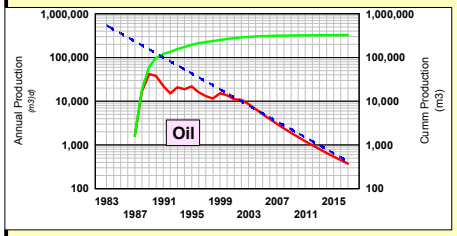


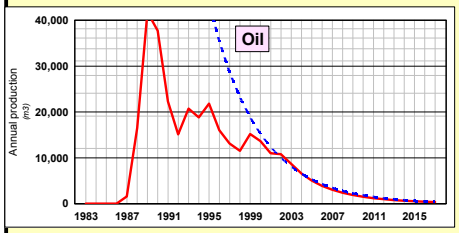



## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Romney 6-13-III**
TGI Pool: **Renwick Pool**
TGI Field: **Renwick-Fargo Field**
No of Wells: **13**




**19%** Pool Decline

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

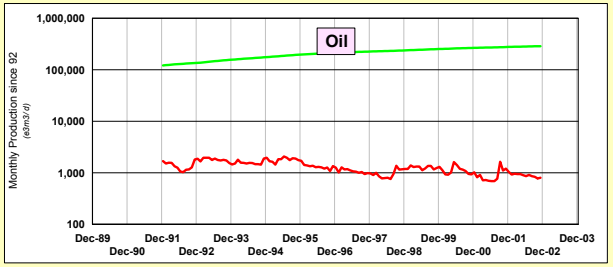
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 10,799 | m3/yr | 1,362 | e3m3/yr | 22,957 | m3/yr |
| Cumm to Date: | 287,999 | m3 | 18,907 | e3m3 | 258,456 | m3 |
| Remaining Recoverable: | 38,088 | m3 | 4,716 | e3m3 | 77,023 | m3 |
| Remaining Recovery: | 326,086 | m3 | 23,623 | e3m3 | 335,479 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 30 | m3/d | 4 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

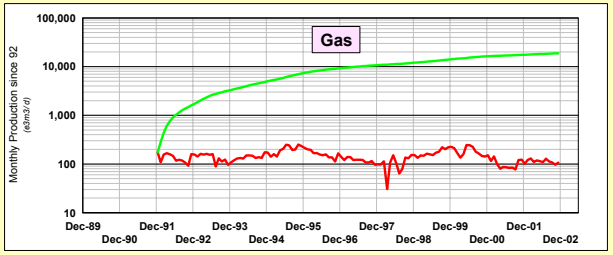
| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1 | 1987 | 1,604 | 0 | 0 | 1,604 | 0 | 0 | |
| 4 | 2 | 1988 | 16,540 | 0 | 0 | 18,144 | 0 | 0 | |
| 6 | 3 | 1989 | 41,802 | 0 | 0 | 59,946 | 0 | 0 | |
| 6 | 4 | 1990 | 37,766 | 0 | 0 | 97,711 | 0 | 0 | |
| 6 | 5 | 1991 | 22,307 | 0 | 0 | 120,018 | 0 | 0 | |
| 7 | 6 | 1992 | 15,129 | 1,611 | 15,863 | 135,147 | 1,611 | 15,863 | |
| 7 | 7 | 1993 | 20,753 | 1,613 | 15,500 | 155,900 | 3,223 | 31,363 | 78 |
| 8 | 8 | 1994 | 18,844 | 1,655 | 16,370 | 174,744 | 4,879 | 47,733 | 88 |
| 9 | 9 | 1995 | 21,839 | 2,391 | 16,731 | 196,583 | 7,269 | 64,464 | 109 |
| 9 | 10 | 1996 | 16,045 | 1,972 | 20,555 | 212,628 | 9,241 | 85,019 | 123 |
| 9 | 11 | 1997 | 13,134 | 1,459 | 21,479 | 225,761 | 10,700 | 106,498 | 111 |
| 10 | 12 | 1998 | 11,533 | 1,273 | 28,060 | 237,295 | 11,973 | 134,558 | 110 |
| 10 | 13 | 1999 | 15,216 | 2,057 | 36,647 | 252,511 | 14,030 | 171,205 | 135 |
| 12 | 14 | 2000 | 13,666 | 2,258 | 38,177 | 266,177 | 16,287 | 209,382 | 165 |
| 12 | 15 | 2001 | 11,023 | 1,257 | 26,117 | 277,200 | 17,545 | 235,499 | 114 |
| 12 | 16 | 2002 | 10,799 | 1,362 | 22,957 | 287,999 | 18,907 | 258,456 | 126 |
| | 17 | 2003 | 8,657 | 1,128 | 18,354 | 296,656 | 20,034 | 276,810 | 130 |
| | 18 | 2004 | 6,590 | 842 | 13,727 | 303,246 | 20,876 | 290,536 | 128 |
| | 19 | 2005 | 5,055 | 634 | 10,350 | 308,301 | 21,509 | 300,886 | 125 |
| | 20 | 2006 | 3,909 | 481 | 7,872 | 312,210 | 21,990 | 308,758 | 123 |
| | 21 | 2007 | 3,047 | 369 | 6,041 | 315,257 | 22,359 | 314,799 | 121 |
| | 22 | 2008 | 2,394 | 286 | 4,680 | 317,651 | 22,645 | 319,479 | 119 |
| | 23 | 2009 | 1,896 | 223 | 3,660 | 319,547 | 22,868 | 323,140 | 118 |
| | 24 | 2010 | 1,513 | 176 | 2,890 | 321,059 | 23,044 | 326,030 | 117 |
| | 25 | 2011 | 1,216 | 141 | 2,303 | 322,275 | 23,185 | 328,333 | 116 |
| | 26 | 2012 | 984 | 113 | 1,853 | 323,260 | 23,298 | 330,186 | 115 |
| | 27 | 2013 | 802 | 92 | 1,503 | 324,062 | 23,390 | 331,689 | 115 |
| | 28 | 2014 | 658 | 75 | 1,230 | 324,720 | 23,465 | 332,919 | 115 |
| | 29 | 2015 | 542 | 62 | 1,014 | 325,262 | 23,527 | 333,933 | 115 |
| | 30 | 2016 | 450 | 52 | 842 | 325,712 | 23,579 | 334,775 | 115 |
| | 31 | 2017 | 375 | 43 | 704 | 326,086 | 23,623 | 335,479 | 116 |
| | | To date: | 287,999 | 18,907 | 258,456 | | | | 0.1126 |

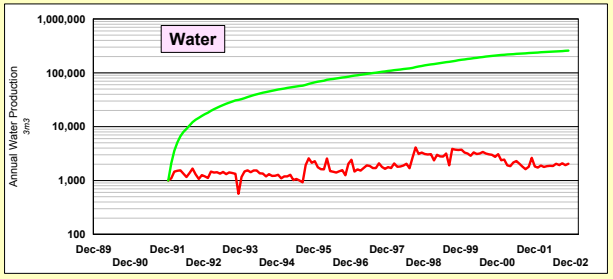
Revised May 27th 2004

## Monthly Production vs Month
*(1992 to 2002)*

42736



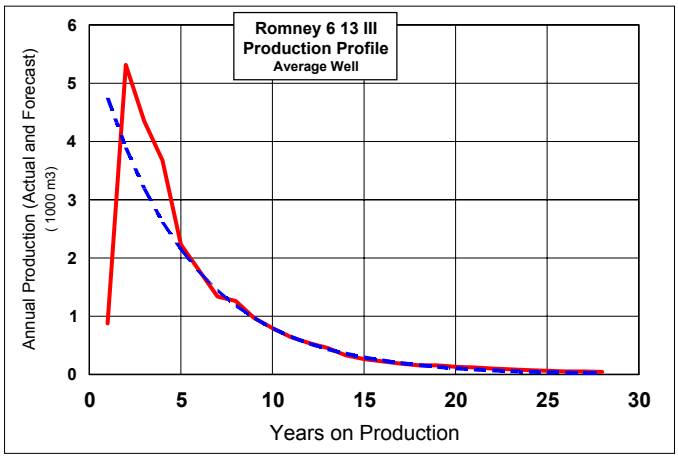
# Romney 6-13-III

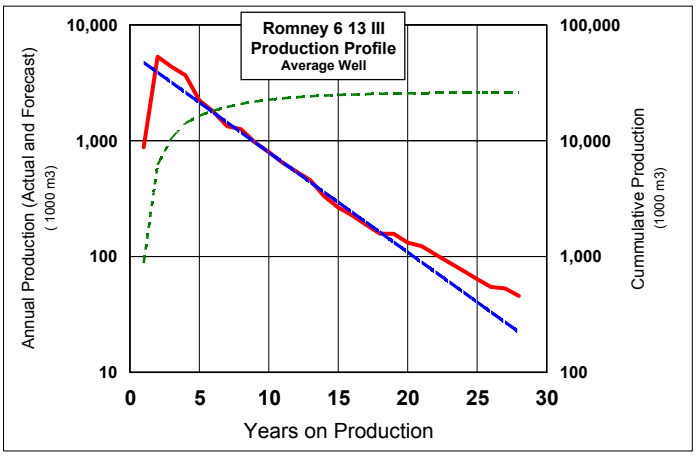
# Average Well

GOR: 115
WOR: 1.539

| Prod Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|
| 1 | 4,750 | 546 | 7,308 | 4,750 | 546 | 7,308 | 115 |
| 2 | 3,895 | 448 | 5,993 | 8,645 | 994 | 13,301 | 115 |
| 3 | 3,194 | 367 | 4,914 | 11,839 | 1,361 | 18,215 | 115 |
| 4 | 2,619 | 301 | 4,030 | 14,458 | 1,663 | 22,245 | 115 |
| 5 | 2,148 | 247 | 3,304 | 16,605 | 1,910 | 25,549 | 115 |
| 6 | 1,761 | 203 | 2,710 | 18,366 | 2,112 | 28,259 | 115 |
| 7 | 1,444 | 166 | 2,222 | 19,811 | 2,278 | 30,481 | 115 |
| 8 | 1,184 | 136 | 1,822 | 20,995 | 2,414 | 32,302 | 115 |
| 9 | 971 | 112 | 1,494 | 21,966 | 2,526 | 33,796 | 115 |
| 10 | 796 | 92 | 1,225 | 22,762 | 2,618 | 35,021 | 115 |
| 11 | 653 | 75 | 1,005 | 23,415 | 2,693 | 36,026 | 115 |
| 12 | 535 | 62 | 824 | 23,950 | 2,754 | 36,850 | 115 |
| 13 | 439 | 50 | 675 | 24,389 | 2,805 | 37,525 | 115 |
| 14 | 360 | 41 | 554 | 24,749 | 2,846 | 38,079 | 115 |
| 15 | 295 | 34 | 454 | 25,044 | 2,880 | 38,533 | 115 |
| 16 | 242 | 28 | 372 | 25,286 | 2,908 | 38,905 | 115 |
| 17 | 198 | 23 | 305 | 25,485 | 2,931 | 39,211 | 115 |
| 18 | 163 | 19 | 250 | 25,647 | 2,949 | 39,461 | 115 |
| 19 | 133 | 15 | 205 | 25,781 | 2,965 | 39,667 | 115 |
| 20 | 109 | 13 | 168 | 25,890 | 2,977 | 39,835 | 115 |
| 21 | 90 | 10 | 138 | 25,980 | 2,988 | 39,973 | 115 |
| 22 | 74 | 8 | 113 | 26,054 | 2,996 | 40,086 | 115 |
| 23 | 60 | 7 | 93 | 26,114 | 3,003 | 40,179 | 115 |
| 24 | 49 | 6 | 76 | 26,163 | 3,009 | 40,255 | 115 |
| 25 | 41 | 5 | 62 | 26,204 | 3,013 | 40,318 | 115 |
| 26 | 33 | 4 | 51 | 26,237 | 3,017 | 40,369 | 115 |
| 27 | 27 | 3 | 42 | 26,265 | 3,020 | 40,411 | 115 |
| 28 | 22 | 3 | 34 | 26,287 | 3,023 | 40,445 | 115 |
| 29 | 18 | 2 | 28 | 26,305 | 3,025 | 40,473 | 115 |
| 30 | 15 | 2 | 23 | 26,320 | 3,027 | 40,497 | 115 |
| 31 | 12 | 1 | 19 | 26,333 | 3,028 | 40,516 | 115 |
| 32 | 10 | 1 | 16 | 26,343 | 3,029 | 40,531 | 115 |
| | 26,343 | 3,029 | 40,531 | | | | |

| Average Well Oil | | |
|---|---|---|
| Start: | 4750 | m3 per year |
| Decline Rate | 18.0% | per year |
| Decline Facto | 0.0164 | per month |
| Recovery | 26,343 | m3 |




Revised May 27th 2004

Well No.: **T009469**

Well Name: **Talisman (Horiz.#1), Mersea 3 - 23 - X**

Status: **Active Well**

MNR Pool: **Romney 6-13-III**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T009469**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 135 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0036 | m3 per m3 | 0.1580 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 1.1718 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **303** | m3/yr | **0** | e3m3/yr | **1** | m3/yr |
| Cumm to Date: | **1,571** | m3 | **212** | e3m3 | **248** | m3 |
| Remaining Recoverable: | **813** | m3 | **0** | e3m3 | **3** | m3 |
| Total Recovery: | **2,385** | m3 | **212** | e3m3 | **251** | m3 |
| Peak Rate: | 2.1 | m3/d | 0.3 | e3m3/d | based on annual | |
| Peak Rate: | 11.4 | m3/d | 1.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.4 | m3/d | 0.3 | e3m3/d | per day based on annual | |
| Current Rate: | 0.8 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

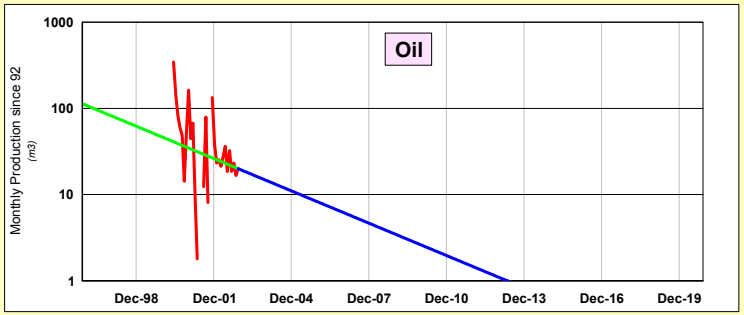
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2000 | 749 | 110 | 164 | 749 | 110 | 164 | 146 |
| 2 | 2001 | 519 | 102 | 84 | 1,268 | 212 | 247 | 197 |
| 3 | 2002 | 303 | 0 | 1 | 1,571 | 212 | 248 | 0 |
| 4 | 2003 | 206 | 0 | 1 | 1,777 | 212 | 249 | 0 |
| 5 | 2004 | 155 | 0 | 1 | 1,932 | 212 | 250 | 0 |
| 6 | 2005 | 116 | 0 | 0 | 2,048 | 212 | 250 | 0 |
| 7 | 2006 | 87 | 0 | 0 | 2,135 | 212 | 250 | 0 |
| 8 | 2007 | 65 | 0 | 0 | 2,200 | 212 | 251 | 0 |
| 9 | 2008 | 49 | 0 | 0 | 2,249 | 212 | 251 | 0 |
| 10 | 2009 | 37 | 0 | 0 | 2,286 | 212 | 251 | 0 |
| 11 | 2010 | 28 | 0 | 0 | 2,313 | 212 | 251 | 0 |
| 12 | 2011 | 21 | 0 | 0 | 2,334 | 212 | 251 | 0 |
| 13 | 2012 | 15 | 0 | 0 | 2,349 | 212 | 251 | 0 |
| 14 | 2013 | 12 | 0 | 0 | 2,361 | 212 | 251 | 0 |
| 15 | 2014 | 9 | 0 | 0 | 2,369 | 212 | 251 | 0 |
| 16 | 2015 | 7 | 0 | 0 | 2,376 | 212 | 251 | 0 |
| 17 | 2016 | 5 | 0 | 0 | 2,381 | 212 | 251 | 0 |
| 18 | 2017 | 4 | 0 | 0 | 2,385 | 212 | 251 | 0 |

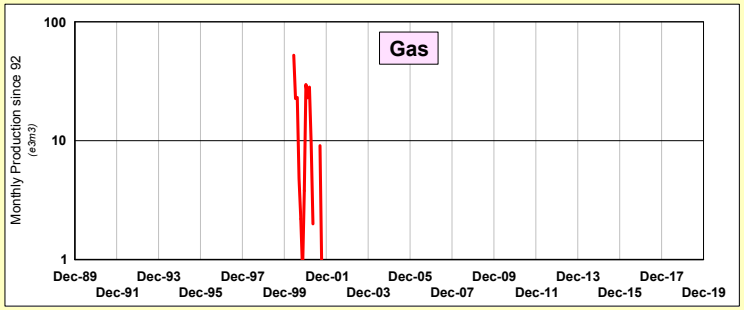
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

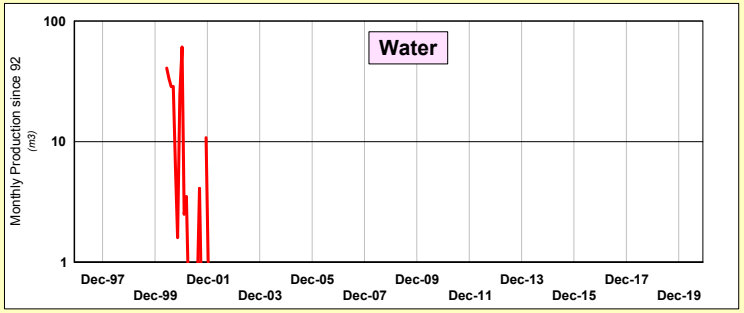
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 20 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T009464**

Well Name: **Talisman (Horiz.#1), Romney 2 - 13 - II**

Status: **Active Well**

MNR Pool: **Romney 6-13-III**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T009464**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 146 | m3 per m3 | 87 | last year | |
| 2002 Water/Oil ratio: | 0.7213 | m3 per m3 | 0.5133 | last 10 years | |
| 2002 Water/ Gas Ratio: | 8.2523 | m3 per e3m3 | 3.5136 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,143** | m3/yr | **100** | e3m3/yr | **824** | m3/yr |
| Cumm to Date: | **4,530** | m3 | **662** | e3m3 | **2,325** | m3 |
| Remaining Recoverable: | **4,626** | m3 | **416** | e3m3 | **3,337** | m3 |
| Total Recovery: | **9,157** | m3 | **1,078** | e3m3 | **5,662** | m3 |
| Peak Rate: | 5.0 | m3/d | 1.0 | e3m3/d | based on annual | |
| Peak Rate: | 11.2 | m3/d | 2.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 4.3 | m3/d | 0.6 | e3m3/d | per day based on annual | |
| Current Rate: | 3.1 | m3/d | 0.3 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

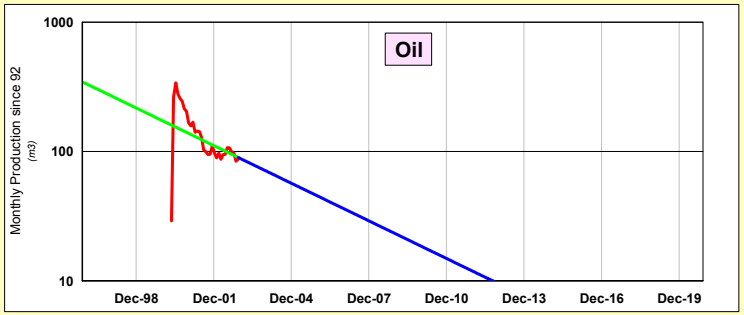
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2000 | 1,834 | 354 | 657 | 1,834 | 354 | 657 | 193 |
| 2 | 2001 | 1,554 | 208 | 844 | 3,387 | 562 | 1,501 | 134 |
| 3 | 2002 | 1,143 | 100 | 824 | 4,530 | 662 | 2,325 | 87 |
| 4 | 2003 | 959 | 86 | 692 | 5,489 | 748 | 3,017 | 90 |
| 5 | 2004 | 767 | 69 | 553 | 6,256 | 817 | 3,570 | 90 |
| 6 | 2005 | 614 | 55 | 443 | 6,870 | 872 | 4,013 | 90 |
| 7 | 2006 | 491 | 44 | 354 | 7,361 | 917 | 4,367 | 90 |
| 8 | 2007 | 393 | 35 | 283 | 7,754 | 952 | 4,651 | 90 |
| 9 | 2008 | 314 | 28 | 227 | 8,068 | 980 | 4,877 | 90 |
| 10 | 2009 | 251 | 23 | 181 | 8,320 | 1,003 | 5,059 | 90 |
| 11 | 2010 | 201 | 18 | 145 | 8,521 | 1,021 | 5,204 | 90 |
| 12 | 2011 | 161 | 14 | 116 | 8,682 | 1,035 | 5,320 | 90 |
| 13 | 2012 | 129 | 12 | 93 | 8,810 | 1,047 | 5,413 | 90 |
| 14 | 2013 | 103 | 9 | 74 | 8,913 | 1,056 | 5,487 | 90 |
| 15 | 2014 | 82 | 7 | 59 | 8,996 | 1,064 | 5,546 | 90 |
| 16 | 2015 | 66 | 6 | 48 | 9,062 | 1,070 | 5,594 | 90 |
| 17 | 2016 | 53 | 5 | 38 | 9,114 | 1,074 | 5,632 | 90 |
| 18 | 2017 | 42 | 4 | 30 | 9,157 | 1,078 | 5,662 | 90 |

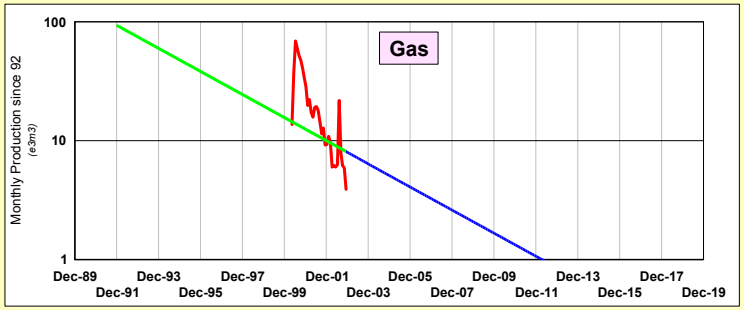
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

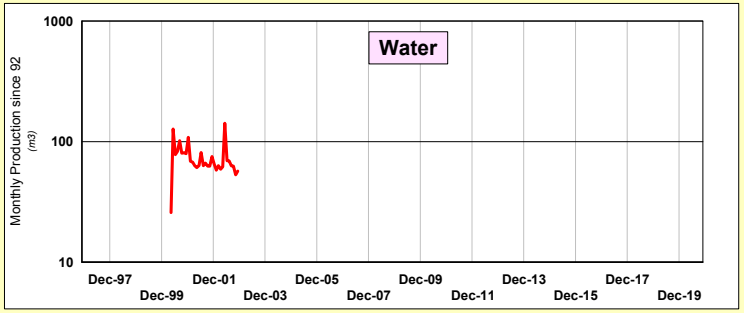
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 90 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 90 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008672**

Well Name: **Talisman (Horiz.#1), Mersea 5 - 23 - X**

Status: **Active Well**

MNR Pool: **Romney 6-13-III**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T008672**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 167 | m3 per m3 | 172 | last year | |
| 2002 Water/Oil ratio: | 2.7834 | m3 per m3 | 2.8500 | last 10 years | |
| 2002 Water/ Gas Ratio: | 16.2293 | m3 per e3m3 | 17.0436 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **5,478** | m3/yr | **940** | e3m3/yr | **15,247** | m3/yr |
| Cumm to Date: | **22,768** | m3 | **3,807** | e3m3 | **64,887** | m3 |
| Remaining Recoverable: | **13,855** | m3 | **2,425** | e3m3 | **38,565** | m3 |
| Total Recovery: | **36,623** | m3 | **6,232** | e3m3 | **103,452** | m3 |
| Peak Rate: | 19.3 | m3/d | 3.1 | e3m3/d | based on annual | |
| Peak Rate: | 38.6 | m3/d | 5.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 19.3 | m3/d | 3.0 | e3m3/d | per day based on annual | |
| Current Rate: | 15.0 | m3/d | 2.6 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

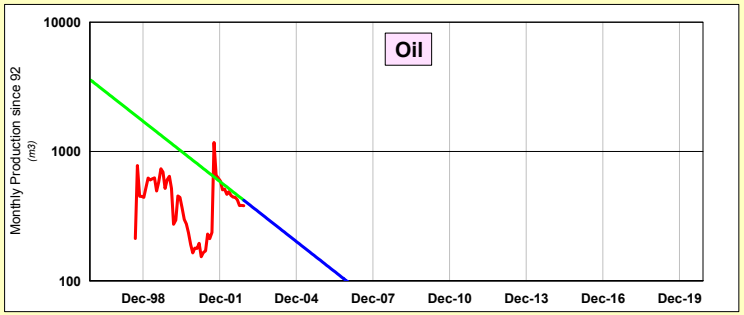
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1998 | 1,893 | 140 | 6,549 | 1,893 | 140 | 6,549 | 74 |
| 2 | 1999 | 7,060 | 1,084 | 15,950 | 8,953 | 1,223 | 22,498 | 153 |
| 3 | 2000 | 4,160 | 1,135 | 16,083 | 13,113 | 2,359 | 38,581 | 273 |
| 4 | 2001 | 4,177 | 509 | 11,058 | 17,290 | 2,868 | 49,639 | 122 |
| 5 | 2002 | 5,478 | 940 | 15,247 | 22,768 | 3,807 | 64,887 | 172 |
| 6 | 2003 | 4,176 | 731 | 11,625 | 26,944 | 4,538 | 76,511 | 175 |
| 7 | 2004 | 2,924 | 512 | 8,137 | 29,868 | 5,050 | 84,649 | 175 |
| 8 | 2005 | 2,046 | 358 | 5,696 | 31,914 | 5,408 | 90,345 | 175 |
| 9 | 2006 | 1,433 | 251 | 3,987 | 33,347 | 5,658 | 94,332 | 175 |
| 10 | 2007 | 1,003 | 175 | 2,791 | 34,349 | 5,834 | 97,123 | 175 |
| 11 | 2008 | 702 | 123 | 1,954 | 35,051 | 5,957 | 99,077 | 175 |
| 12 | 2009 | 491 | 86 | 1,368 | 35,543 | 6,043 | 100,445 | 175 |
| 13 | 2010 | 344 | 60 | 957 | 35,887 | 6,103 | 101,402 | 175 |
| 14 | 2011 | 241 | 42 | 670 | 36,127 | 6,145 | 102,072 | 175 |
| 15 | 2012 | 169 | 29 | 469 | 36,296 | 6,175 | 102,541 | 175 |
| 16 | 2013 | 118 | 21 | 328 | 36,414 | 6,195 | 102,870 | 175 |
| 17 | 2014 | 83 | 14 | 230 | 36,496 | 6,210 | 103,099 | 175 |
| 18 | 2015 | 58 | 10 | 161 | 36,554 | 6,220 | 103,260 | 175 |
| 19 | 2016 | 40 | 7 | 113 | 36,595 | 6,227 | 103,373 | 175 |
| 20 | 2017 | 28 | 5 | 79 | 36,623 | 6,232 | 103,452 | 175 |

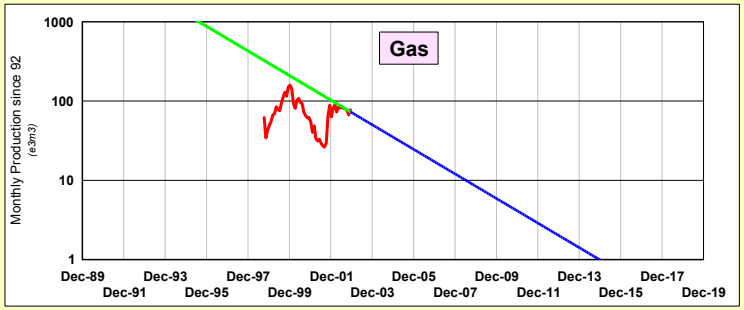
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

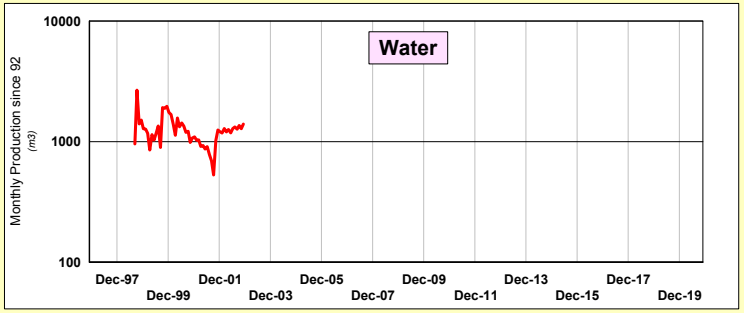
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 175 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 420 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | **0.0293** | per month | Decline Factor: | **0.0293** | per month |



Well No.: **T008321**

Well Name: **Pembina et al (Horiz. #1), Romney 5 - 11 - IV**

Status: **Active Well**

MNR Pool: **Romney 6-13-III**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T008321**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 199 | m3 per m3 | 0 | last year |
| 2002 Water/Oil ratio: | 81.0000 | m3 per m3 | 7.3795 | last 10 years |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 37.1492 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1** | m3/yr | **0** | e3m3/yr | **49** | m3/yr |
| Cumm to Date: | **4,459** | m3 | **886** | e3m3 | **32,907** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **4,459** | m3 | **886** | e3m3 | **32,907** | m3 |
| Peak Rate: | 2.8 | m3/d | 0.7 | e3m3/d | based on annual | |
| Peak Rate: | 9.8 | m3/d | 2.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.8 | m3/d | 0.7 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

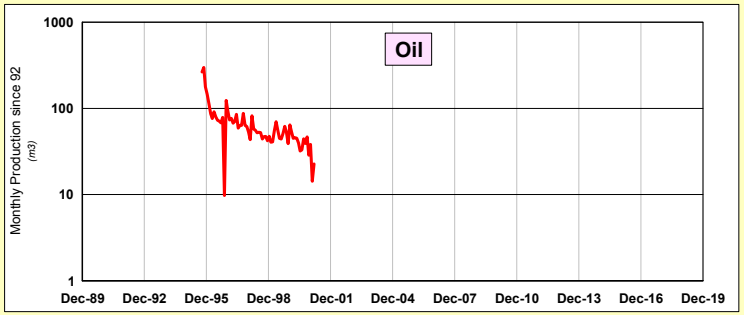
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1995 | 743 | 121 | 2,381 | 743 | 121 | 2,381 | 163 |
| 2 | 1996 | 1,020 | 262 | 4,388 | 1,763 | 383 | 6,769 | 257 |
| 3 | 1997 | 867 | 131 | 6,342 | 2,630 | 514 | 13,111 | 151 |
| 4 | 1998 | 631 | 139 | 5,755 | 3,260 | 653 | 18,865 | 221 |
| 5 | 1999 | 604 | 143 | 5,930 | 3,865 | 796 | 24,795 | 236 |
| 6 | 2000 | 517 | 90 | 6,776 | 4,382 | 886 | 31,572 | 175 |
| 7 | 2001 | 77 | 0 | 1,286 | 4,459 | 886 | 32,858 | 0 |
| 8 | 2002 | 1 | 0 | 49 | 4,459 | 886 | 32,907 | 0 |
| 8 | 2003 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2004 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2005 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2006 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2007 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2008 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2009 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2010 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2011 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2012 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2013 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2014 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2015 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2016 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |
| 8 | 2017 | 0 | 0 | 0 | 4,459 | 886 | 32,907 | ERR |

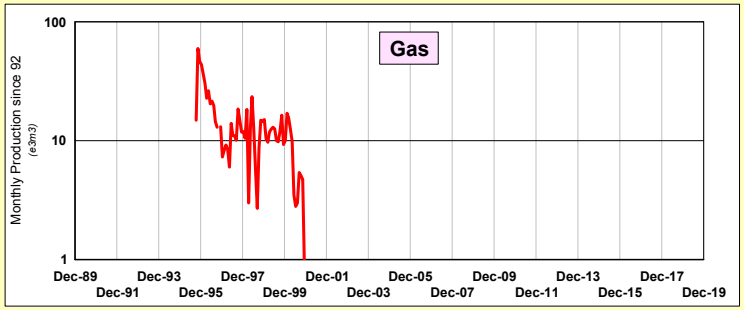
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

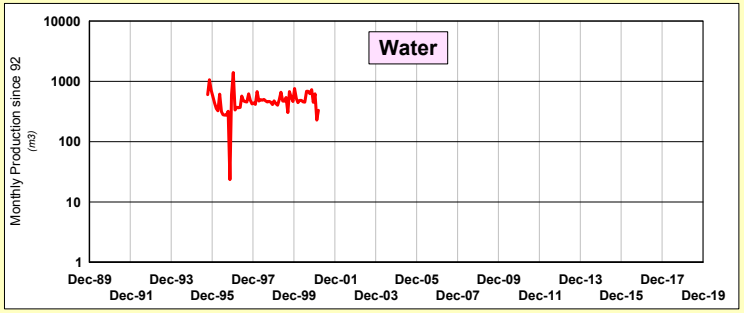
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008224**

Well Name: **Pembina et al (Horiz.#1), Romney 3 - 11 - IV**

Status: **Active Well**

MNR Pool: **Romney 6-13-III**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T008224**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 129 | m3 per m3 | 102 | last year | |
| 2002 Water/Oil ratio: | 0.0621 | m3 per m3 | 0.0394 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.6082 | m3 per e3m3 | 0.3057 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,023** | m3/yr | **104** | e3m3/yr | **64** | m3/yr |
| Cumm to Date: | **13,971** | m3 | **1,801** | e3m3 | **550** | m3 |
| Remaining Recoverable: | **4,685** | m3 | **515** | e3m3 | **291** | m3 |
| Total Recovery: | **18,656** | m3 | **2,316** | e3m3 | **841** | m3 |
| Peak Rate: | 6.8 | m3/d | 1.0 | e3m3/d | based on annual | |
| Peak Rate: | 13.8 | m3/d | 2.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 6.8 | m3/d | 1.0 | e3m3/d | per day based on annual | |
| Current Rate: | 2.8 | m3/d | 0.3 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

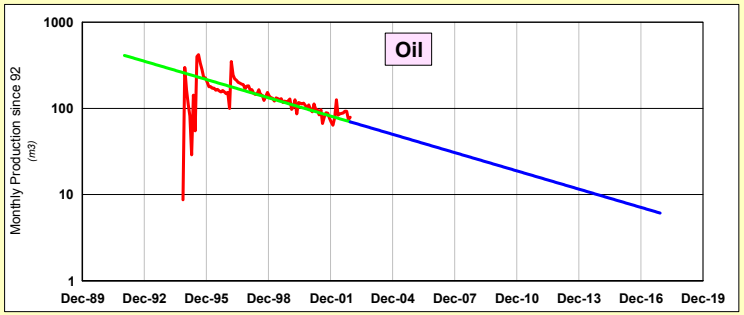
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1994 | 308 | 34 | 12 | 308 | 34 | 12 | 110 |
| 2 | 1995 | 2,473 | 363 | 84 | 2,781 | 397 | 96 | 147 |
| 3 | 1996 | 2,015 | 301 | 30 | 4,796 | 698 | 126 | 150 |
| 4 | 1997 | 2,409 | 297 | 57 | 7,205 | 996 | 183 | 123 |
| 5 | 1998 | 1,818 | 179 | 48 | 9,023 | 1,175 | 231 | 98 |
| 6 | 1999 | 1,524 | 207 | 78 | 10,547 | 1,382 | 309 | 136 |
| 7 | 2000 | 1,323 | 173 | 110 | 11,870 | 1,555 | 419 | 131 |
| 8 | 2001 | 1,078 | 141 | 68 | 12,948 | 1,696 | 487 | 131 |
| 9 | 2002 | 1,023 | 104 | 64 | 13,971 | 1,801 | 550 | 102 |
| 10 | 2003 | 770 | 85 | 48 | 14,741 | 1,885 | 598 | 110 |
| 11 | 2004 | 655 | 72 | 41 | 15,396 | 1,957 | 639 | 110 |
| 12 | 2005 | 556 | 61 | 35 | 15,952 | 2,018 | 673 | 110 |
| 13 | 2006 | 473 | 52 | 29 | 16,425 | 2,070 | 703 | 110 |
| 14 | 2007 | 402 | 44 | 25 | 16,827 | 2,115 | 728 | 110 |
| 15 | 2008 | 342 | 38 | 21 | 17,169 | 2,152 | 749 | 110 |
| 16 | 2009 | 290 | 32 | 18 | 17,459 | 2,184 | 767 | 110 |
| 17 | 2010 | 247 | 27 | 15 | 17,706 | 2,211 | 782 | 110 |
| 18 | 2011 | 210 | 23 | 13 | 17,916 | 2,234 | 795 | 110 |
| 19 | 2012 | 178 | 20 | 11 | 18,094 | 2,254 | 806 | 110 |
| 20 | 2013 | 152 | 17 | 9 | 18,246 | 2,271 | 816 | 110 |
| 21 | 2014 | 129 | 14 | 8 | 18,375 | 2,285 | 824 | 110 |
| 22 | 2015 | 110 | 12 | 7 | 18,484 | 2,297 | 831 | 110 |
| 23 | 2016 | 93 | 10 | 6 | 18,577 | 2,307 | 836 | 110 |
| 24 | 2017 | 79 | 9 | 5 | 18,656 | 2,316 | 841 | 110 |

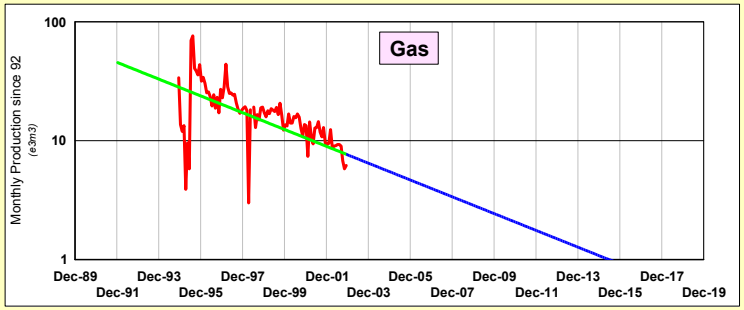
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

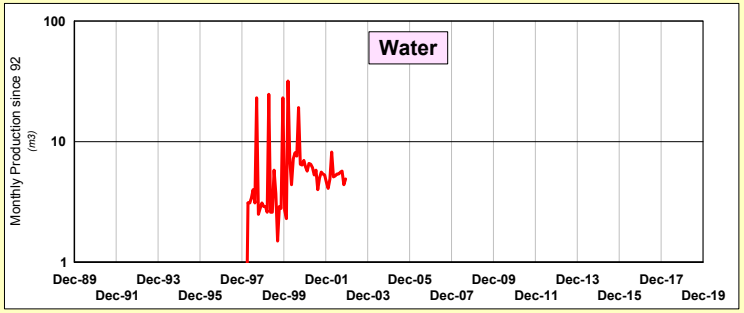
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 110 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 70 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T007904**

Well Name: **Telesis et al 34518, Mersea 1 - 24 - IX**

Status: **Active Well**

MNR Pool: **Romney 6-13-III**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007904**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 69 | m3 per m3 | 56 | last year | |
| 2002 Water/Oil ratio: | 0.5129 | m3 per m3 | 0.2101 | last 10 years | |
| 2002 Water/ Gas Ratio: | 9.0964 | m3 per e3m3 | 3.0425 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **791** | m3/yr | **45** | e3m3/yr | **406** | m3/yr |
| Cumm to Date: | **40,332** | m3 | **2,785** | e3m3 | **8,474** | m3 |
| Remaining Recoverable: | **2,846** | m3 | **171** | e3m3 | **1,460** | m3 |
| Total Recovery: | **43,179** | m3 | **2,956** | e3m3 | **9,934** | m3 |
| Peak Rate: | 26.9 | m3/d | 1.8 | e3m3/d | based on annual | |
| Peak Rate: | 31.6 | m3/d | 2.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 26.9 | m3/d | 1.8 | e3m3/d | per day based on annual | |
| Current Rate: | 2.2 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1992 | 31 | 44 | 58 | 31 | 44 | 58 | 1,439 |
| 2 | 1993 | 9,827 | 675 | 447 | 9,858 | 720 | 505 | 69 |
| 3 | 1994 | 9,513 | 623 | 870 | 19,371 | 1,342 | 1,375 | 65 |
| 4 | 1995 | 6,954 | 415 | 801 | 26,324 | 1,757 | 2,176 | 60 |
| 5 | 1996 | 4,671 | 308 | 988 | 30,995 | 2,065 | 3,164 | 66 |
| 6 | 1997 | 3,403 | 239 | 1,545 | 34,398 | 2,304 | 4,709 | 70 |
| 7 | 1998 | 1,930 | 166 | 1,134 | 36,329 | 2,469 | 5,843 | 86 |
| 8 | 1999 | 1,251 | 115 | 1,057 | 37,579 | 2,584 | 6,900 | 92 |
| 9 | 2000 | 1,071 | 84 | 691 | 38,651 | 2,668 | 7,591 | 78 |
| 10 | 2001 | 890 | 73 | 477 | 39,541 | 2,741 | 8,068 | 81 |
| 11 | 2002 | 791 | 45 | 406 | 40,332 | 2,785 | 8,474 | 56 |
| 12 | 2003 | 721 | 43 | 370 | 41,053 | 2,828 | 8,844 | 60 |
| 13 | 2004 | 541 | 32 | 277 | 41,594 | 2,861 | 9,121 | 60 |
| 14 | 2005 | 406 | 24 | 208 | 42,000 | 2,885 | 9,329 | 60 |
| 15 | 2006 | 304 | 18 | 156 | 42,304 | 2,904 | 9,485 | 60 |
| 16 | 2007 | 228 | 14 | 117 | 42,532 | 2,917 | 9,602 | 60 |
| 17 | 2008 | 171 | 10 | 88 | 42,704 | 2,927 | 9,690 | 60 |
| 18 | 2009 | 128 | 8 | 66 | 42,832 | 2,935 | 9,756 | 60 |
| 19 | 2010 | 96 | 6 | 49 | 42,928 | 2,941 | 9,805 | 60 |
| 20 | 2011 | 72 | 4 | 37 | 43,000 | 2,945 | 9,843 | 60 |
| 21 | 2012 | 54 | 3 | 28 | 43,055 | 2,949 | 9,870 | 60 |
| 22 | 2013 | 41 | 2 | 21 | 43,095 | 2,951 | 9,891 | 60 |
| 23 | 2014 | 30 | 2 | 16 | 43,126 | 2,953 | 9,907 | 60 |
| 24 | 2015 | 23 | 1 | 12 | 43,149 | 2,954 | 9,918 | 60 |
| 25 | 2016 | 17 | 1 | 9 | 43,166 | 2,955 | 9,927 | 60 |
| 26 | 2017 | 13 | 1 | 7 | 43,179 | 2,956 | 9,934 | 60 |

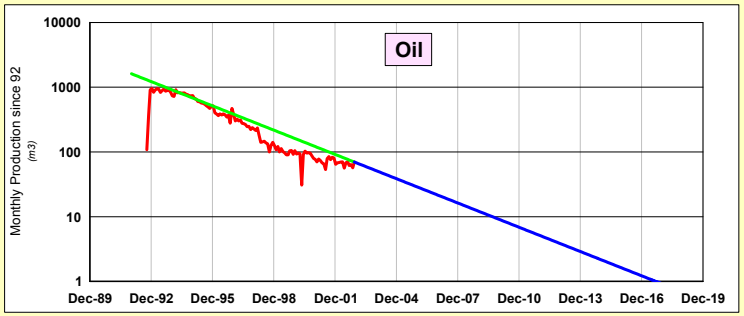
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

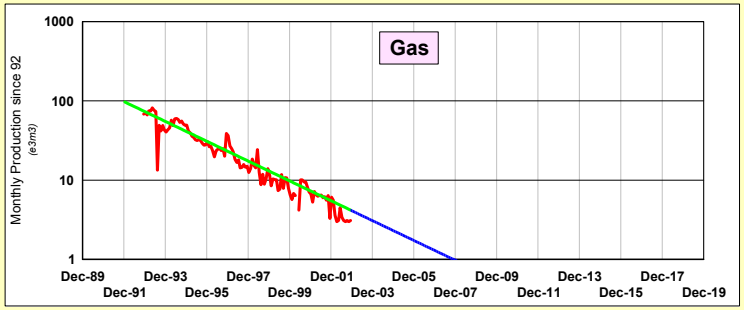
Revised May 27th 2004

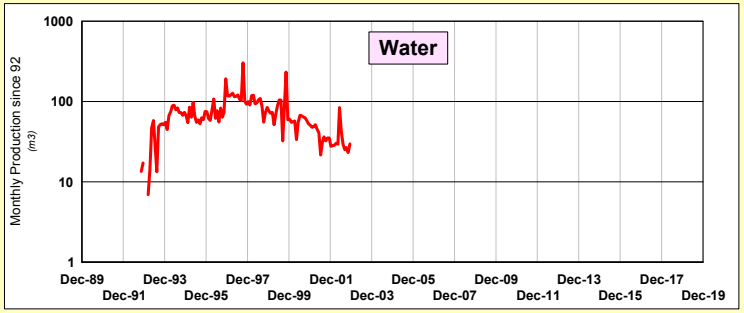
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 60 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 70 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T007477**

Well Name: **Telesis et al 34513, Romney 7 - 12 - IV**

Status: **Active Well**

MNR Pool: **Romney 6-13-III**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007477**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 71 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 4.6471 | m3 per m3 | 0.3524 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 4.9541 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **157** | m3/yr | **0** | e3m3/yr | **728** | m3/yr |
| Cumm to Date: | **10,693** | m3 | **652** | e3m3 | **3,231** | m3 |
| Remaining Recoverable: | **736** | m3 | **0** | e3m3 | **3,421** | m3 |
| Total Recovery: | **11,429** | m3 | **652** | e3m3 | **6,652** | m3 |
| Peak Rate: | 5.8 | m3/d | 0.7 | e3m3/d | based on annual | |
| Peak Rate: | 11.7 | m3/d | 1.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.6 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.4 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 374 | 0 | 0 | 374 | 0 | 0 | 0 |
| 2 | 1990 | 597 | 0 | 0 | 971 | 0 | 0 | 0 |
| 3 | 1991 | 555 | 0 | 0 | 1,526 | 0 | 0 | 0 |
| 4 | 1992 | 442 | 0 | 11 | 1,968 | 0 | 11 | 0 |
| 5 | 1993 | 668 | 0 | 137 | 2,636 | 0 | 148 | 0 |
| 6 | 1994 | 649 | 18 | 12 | 3,285 | 18 | 160 | 27 |
| 7 | 1995 | 2,132 | 261 | 309 | 5,417 | 278 | 469 | 122 |
| 8 | 1996 | 1,827 | 218 | 728 | 7,244 | 496 | 1,197 | 119 |
| 9 | 1997 | 1,048 | 64 | 238 | 8,292 | 560 | 1,435 | 61 |
| 10 | 1998 | 698 | 33 | 210 | 8,989 | 593 | 1,645 | 47 |
| 11 | 1999 | 675 | 39 | 217 | 9,664 | 631 | 1,862 | 57 |
| 12 | 2000 | 557 | 13 | 205 | 10,221 | 644 | 2,068 | 24 |
| 13 | 2001 | 315 | 8 | 435 | 10,536 | 652 | 2,502 | 24 |
| 14 | 2002 | 157 | 0 | 728 | 10,693 | 652 | 3,231 | 0 |
| 15 | 2003 | 121 | 0 | 562 | 10,814 | 652 | 3,793 | 0 |
| 16 | 2004 | 103 | 0 | 478 | 10,917 | 652 | 4,271 | 0 |
| 17 | 2005 | 87 | 0 | 406 | 11,004 | 652 | 4,677 | 0 |
| 18 | 2006 | 74 | 0 | 345 | 11,079 | 652 | 5,023 | 0 |
| 19 | 2007 | 63 | 0 | 294 | 11,142 | 652 | 5,316 | 0 |
| 20 | 2008 | 54 | 0 | 250 | 11,195 | 652 | 5,566 | 0 |
| 21 | 2009 | 46 | 0 | 212 | 11,241 | 652 | 5,778 | 0 |
| 22 | 2010 | 39 | 0 | 180 | 11,280 | 652 | 5,958 | 0 |
| 23 | 2011 | 33 | 0 | 153 | 11,313 | 652 | 6,111 | 0 |
| 24 | 2012 | 28 | 0 | 130 | 11,341 | 652 | 6,241 | 0 |
| 25 | 2013 | 24 | 0 | 111 | 11,365 | 652 | 6,352 | 0 |
| 26 | 2014 | 20 | 0 | 94 | 11,385 | 652 | 6,446 | 0 |
| 27 | 2015 | 17 | 0 | 80 | 11,402 | 652 | 6,526 | 0 |
| 28 | 2016 | 15 | 0 | 68 | 11,417 | 652 | 6,594 | 0 |
| 29 | 2017 | 12 | 0 | 58 | 11,429 | 652 | 6,652 | 0 |

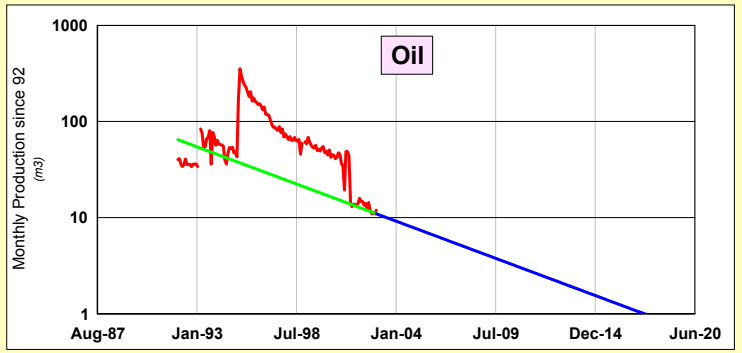
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

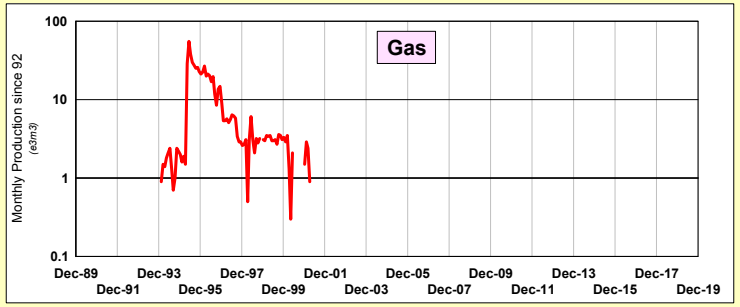
Revised May 27th 2004

## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 11 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T007399**

Well Name: **Cons et al 34349, Romney 3 - 13 - III**

Status: **Active Well**

MNR Pool: **Romney 6-13-III**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007399**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 93 | m3 per m3 | 106 | last year | |
| 2002 Water/Oil ratio: | 6.1641 | m3 per m3 | 0.9661 | last 10 years | |
| 2002 Water/ Gas Ratio: | 58.2800 | m3 per e3m3 | 10.4437 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **449** | m3/yr | **48** | e3m3/yr | **2,768** | m3/yr |
| Cumm to Date: | **53,039** | m3 | **2,359** | e3m3 | **24,636** | m3 |
| Remaining Recoverable: | **1,799** | m3 | **180** | e3m3 | **11,090** | m3 |
| Total Recovery: | **54,838** | m3 | **2,539** | e3m3 | **35,727** | m3 |

| | | | | | |
|---|---|---|---|---|---|
| Peak Rate: | 32.5 | m3/d | 1.4 | e3m3/d | based on annual |
| Peak Rate: | 19.4 | m3/d | 2.6 | e3m3/d | since '93 based on monthly |
| Second Year Production: | 18.6 | m3/d | 0.0 | e3m3/d | per day based on annual |
| Current Rate: | 1.2 | m3/d | 0.1 | e3m3/d | |
| Current decline rate: | 20% | | annually | | |

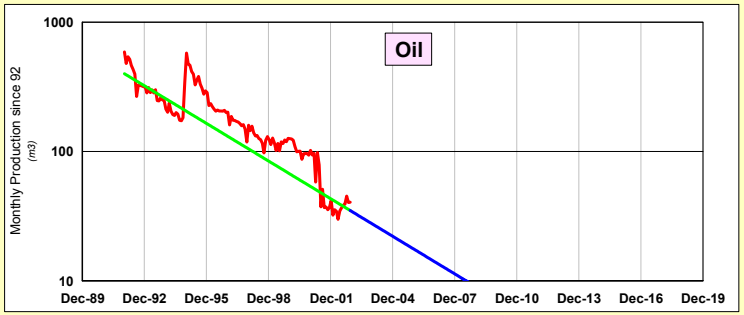
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 186 | 0 | 0 | 186 | 0 | 0 | 0 |
| 2 | 1989 | 6,792 | 0 | 0 | 6,979 | 0 | 0 | 0 |
| 3 | 1990 | 11,863 | 0 | 0 | 18,842 | 0 | 0 | 0 |
| 4 | 1991 | 8,695 | 0 | 0 | 27,537 | 0 | 0 | 0 |
| 5 | 1992 | 4,980 | 519 | 3,529 | 32,517 | 519 | 3,529 | 104 |
| 6 | 1993 | 3,338 | 300 | 3,056 | 35,856 | 819 | 6,585 | 90 |
| 7 | 1994 | 2,507 | 260 | 2,839 | 38,362 | 1,079 | 9,424 | 104 |
| 8 | 1995 | 4,612 | 467 | 2,327 | 42,974 | 1,546 | 11,751 | 101 |
| 9 | 1996 | 2,625 | 228 | 1,646 | 45,599 | 1,774 | 13,397 | 87 |
| 10 | 1997 | 1,991 | 148 | 1,254 | 47,590 | 1,922 | 14,651 | 74 |
| 11 | 1998 | 1,583 | 135 | 1,598 | 49,172 | 2,057 | 16,249 | 85 |
| 12 | 1999 | 1,402 | 107 | 1,554 | 50,574 | 2,164 | 17,803 | 77 |
| 13 | 2000 | 1,253 | 85 | 1,861 | 51,827 | 2,249 | 19,665 | 68 |
| 14 | 2001 | 763 | 63 | 2,204 | 52,590 | 2,311 | 21,868 | 82 |
| 15 | 2002 | 449 | 48 | 2,768 | 53,039 | 2,359 | 24,636 | 106 |
| 16 | 2003 | 373 | 37 | 2,299 | 53,412 | 2,396 | 26,935 | 100 |
| 17 | 2004 | 298 | 30 | 1,839 | 53,710 | 2,426 | 28,774 | 100 |
| 18 | 2005 | 239 | 24 | 1,471 | 53,949 | 2,450 | 30,246 | 100 |
| 19 | 2006 | 191 | 19 | 1,177 | 54,140 | 2,469 | 31,423 | 100 |
| 20 | 2007 | 153 | 15 | 942 | 54,293 | 2,484 | 32,364 | 100 |
| 21 | 2008 | 122 | 12 | 753 | 54,415 | 2,497 | 33,118 | 100 |
| 22 | 2009 | 98 | 10 | 603 | 54,513 | 2,506 | 33,720 | 100 |
| 23 | 2010 | 78 | 8 | 482 | 54,591 | 2,514 | 34,203 | 100 |
| 24 | 2011 | 63 | 6 | 386 | 54,653 | 2,520 | 34,588 | 100 |
| 25 | 2012 | 50 | 5 | 309 | 54,704 | 2,525 | 34,897 | 100 |
| 26 | 2013 | 40 | 4 | 247 | 54,744 | 2,529 | 35,144 | 100 |
| 27 | 2014 | 32 | 3 | 197 | 54,776 | 2,533 | 35,341 | 100 |
| 28 | 2015 | 26 | 3 | 158 | 54,801 | 2,535 | 35,499 | 100 |
| 29 | 2016 | 21 | 2 | 126 | 54,822 | 2,537 | 35,625 | 100 |
| 30 | 2017 | 16 | 2 | 101 | 54,838 | 2,539 | 35,727 | 100 |

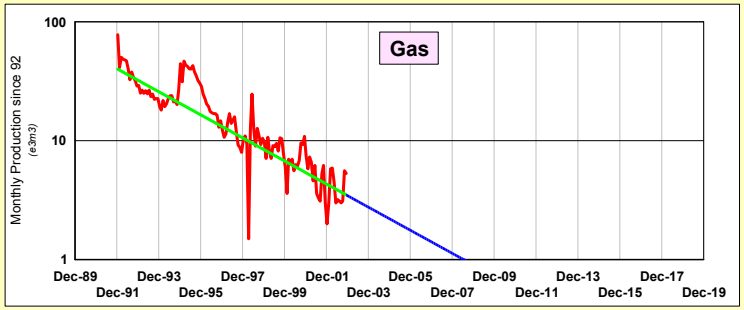
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

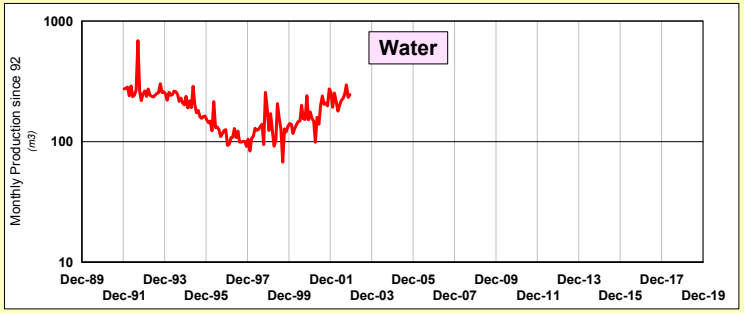
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 35 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007390**

Well Name: **Cons et al 34350, Romney 1 - 13 - II**

Status: **Active Well**

MNR Pool: **Romney 6-13-III**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007390**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 113 | m3 per m3 | 16 | last year | |
| 2002 Water/Oil ratio: | 0.6497 | m3 per m3 | 0.5157 | last 10 years | |
| 2002 Water/ Gas Ratio: | 39.4762 | m3 per e3m3 | 4.5718 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **128** | m3/yr | **2** | e3m3/yr | **83** | m3/yr |
| Cumm to Date: | **8,682** | m3 | **345** | e3m3 | **1,577** | m3 |
| Remaining Recoverable: | **669** | m3 | **67** | e3m3 | **435** | m3 |
| Total Recovery: | **9,351** | m3 | **412** | e3m3 | **2,011** | m3 |

| | | | |
|---|---|---|---|
| Peak Rate: | 9.6 | m3/d | 0.2 e3m3/d based on annual |
| Peak Rate: | 2.3 | m3/d | 0.5 e3m3/d since '93 based on monthly |
| Second Year Production: | 3.8 | m3/d | 0.0 e3m3/d per day based on annual |
| Current Rate: | 0.3 | m3/d | 0.0 e3m3/d |
| Current decline rate: | 15% | | annually |

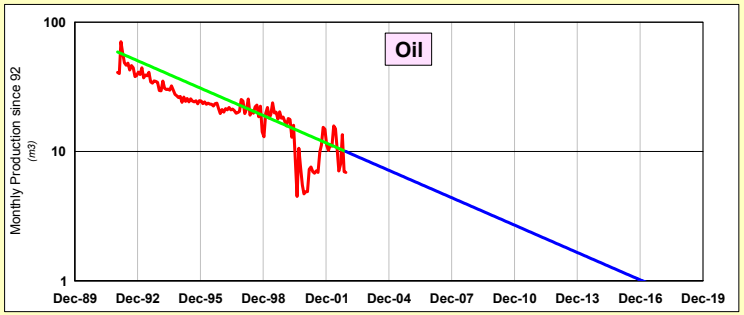
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 3,513 | 0 | 0 | 3,513 | 0 | 0 | 0 |
| 2 | 1990 | 1,383 | 0 | 0 | 4,895 | 0 | 0 | 0 |
| 3 | 1991 | 729 | 0 | 0 | 5,625 | 0 | 0 | 0 |
| 4 | 1992 | 563 | 58 | 242 | 6,188 | 58 | 242 | 103 |
| 5 | 1993 | 454 | 33 | 194 | 6,642 | 90 | 437 | 72 |
| 6 | 1994 | 359 | 35 | 172 | 7,000 | 125 | 608 | 97 |
| 7 | 1995 | 299 | 41 | 161 | 7,299 | 166 | 769 | 138 |
| 8 | 1996 | 276 | 34 | 152 | 7,575 | 201 | 921 | 124 |
| 9 | 1997 | 254 | 33 | 138 | 7,830 | 234 | 1,059 | 130 |
| 10 | 1998 | 251 | 56 | 154 | 8,081 | 290 | 1,213 | 223 |
| 11 | 1999 | 231 | 39 | 134 | 8,311 | 328 | 1,347 | 169 |
| 12 | 2000 | 139 | 14 | 83 | 8,450 | 342 | 1,430 | 99 |
| 13 | 2001 | 104 | 1 | 64 | 8,554 | 343 | 1,494 | 5 |
| 14 | 2002 | 128 | 2 | 83 | 8,682 | 345 | 1,577 | 16 |
| 15 | 2003 | 110 | 11 | 71 | 8,792 | 356 | 1,648 | 100 |
| 16 | 2004 | 94 | 9 | 61 | 8,885 | 365 | 1,709 | 100 |
| 17 | 2005 | 79 | 8 | 52 | 8,965 | 373 | 1,760 | 100 |
| 18 | 2006 | 68 | 7 | 44 | 9,032 | 380 | 1,804 | 100 |
| 19 | 2007 | 57 | 6 | 37 | 9,090 | 386 | 1,842 | 100 |
| 20 | 2008 | 49 | 5 | 32 | 9,139 | 391 | 1,873 | 100 |
| 21 | 2009 | 41 | 4 | 27 | 9,180 | 395 | 1,900 | 100 |
| 22 | 2010 | 35 | 4 | 23 | 9,215 | 398 | 1,923 | 100 |
| 23 | 2011 | 30 | 3 | 19 | 9,245 | 401 | 1,943 | 100 |
| 24 | 2012 | 25 | 3 | 17 | 9,271 | 404 | 1,959 | 100 |
| 25 | 2013 | 22 | 2 | 14 | 9,292 | 406 | 1,973 | 100 |
| 26 | 2014 | 18 | 2 | 12 | 9,311 | 408 | 1,985 | 100 |
| 27 | 2015 | 16 | 2 | 10 | 9,326 | 409 | 1,995 | 100 |
| 28 | 2016 | 13 | 1 | 9 | 9,340 | 411 | 2,004 | 100 |
| 29 | 2017 | 11 | 1 | 7 | 9,351 | 412 | 2,011 | 100 |

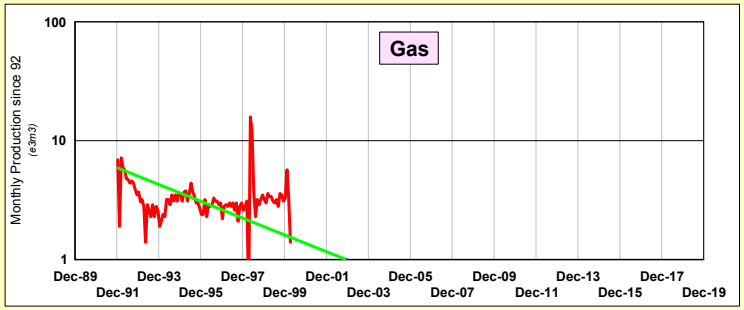
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

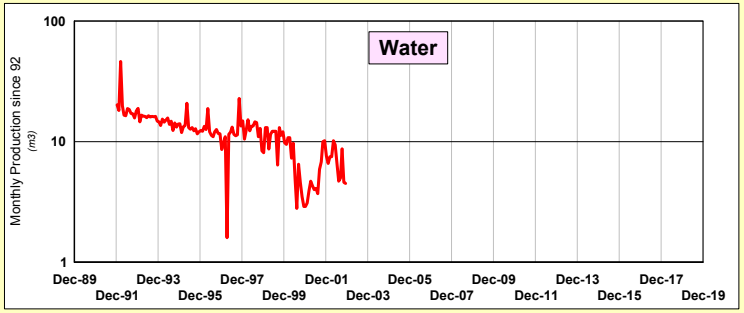
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 10 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T007322**

Well Name: **Cons et al 34346, Romney 1 - 12 - III**

Status: **Active Well**

MNR Pool: **Romney 6-13-III**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007322**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 129 | m3 per m3 | 206 | last year | |
| 2002 Water/Oil ratio: | 3.2863 | m3 per m3 | 0.5288 | last 10 years | |
| 2002 Water/ Gas Ratio: | 15.9507 | m3 per e3m3 | 4.0971 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **295** | m3/yr | **61** | e3m3/yr | **970** | m3/yr |
| Cumm to Date: | **29,442** | m3 | **1,363** | e3m3 | **5,585** | m3 |
| Remaining Recoverable: | **2,701** | m3 | **540** | e3m3 | **8,878** | m3 |
| Total Recovery: | **32,143** | m3 | **1,904** | e3m3 | **14,463** | m3 |
| Peak Rate: | 23.6 | m3/d | 0.5 | e3m3/d | based on annual | |
| Peak Rate: | 6.7 | m3/d | 0.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 23.6 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.8 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

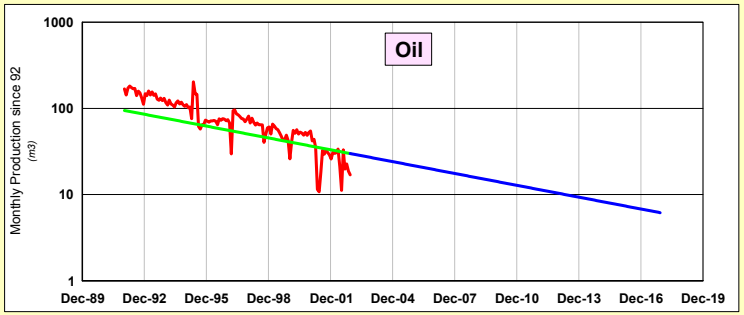
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 41 | 0 | 0 | 41 | 0 | 0 | 0 |
| 2 | 1989 | 8,609 | 0 | 0 | 8,649 | 0 | 0 | 0 |
| 3 | 1990 | 6,749 | 0 | 0 | 15,398 | 0 | 0 | 0 |
| 4 | 1991 | 3,481 | 0 | 0 | 18,878 | 0 | 0 | 0 |
| 5 | 1992 | 1,878 | 183 | 341 | 20,756 | 183 | 341 | 97 |
| 6 | 1993 | 1,675 | 146 | 432 | 22,431 | 329 | 773 | 87 |
| 7 | 1994 | 1,363 | 140 | 421 | 23,794 | 469 | 1,195 | 102 |
| 8 | 1995 | 1,213 | 198 | 511 | 25,006 | 667 | 1,706 | 163 |
| 9 | 1996 | 864 | 144 | 370 | 25,871 | 811 | 2,075 | 166 |
| 10 | 1997 | 911 | 156 | 514 | 26,782 | 967 | 2,589 | 172 |
| 11 | 1998 | 771 | 125 | 564 | 27,553 | 1,092 | 3,153 | 162 |
| 12 | 1999 | 633 | 71 | 518 | 28,186 | 1,162 | 3,671 | 111 |
| 13 | 2000 | 590 | 81 | 467 | 28,775 | 1,244 | 4,138 | 138 |
| 14 | 2001 | 371 | 59 | 478 | 29,147 | 1,302 | 4,616 | 158 |
| 15 | 2002 | 295 | 61 | 970 | 29,442 | 1,363 | 5,585 | 206 |
| 16 | 2003 | 340 | 68 | 1,118 | 29,782 | 1,431 | 6,703 | 200 |
| 17 | 2004 | 306 | 61 | 1,006 | 30,088 | 1,493 | 7,709 | 200 |
| 18 | 2005 | 276 | 55 | 906 | 30,364 | 1,548 | 8,615 | 200 |
| 19 | 2006 | 248 | 50 | 815 | 30,612 | 1,597 | 9,430 | 200 |
| 20 | 2007 | 223 | 45 | 733 | 30,835 | 1,642 | 10,164 | 200 |
| 21 | 2008 | 201 | 40 | 660 | 31,036 | 1,682 | 10,824 | 200 |
| 22 | 2009 | 181 | 36 | 594 | 31,217 | 1,718 | 11,418 | 200 |
| 23 | 2010 | 163 | 33 | 535 | 31,379 | 1,751 | 11,953 | 200 |
| 24 | 2011 | 146 | 29 | 481 | 31,526 | 1,780 | 12,434 | 200 |
| 25 | 2012 | 132 | 26 | 433 | 31,657 | 1,806 | 12,867 | 200 |
| 26 | 2013 | 119 | 24 | 390 | 31,776 | 1,830 | 13,257 | 200 |
| 27 | 2014 | 107 | 21 | 351 | 31,883 | 1,851 | 13,608 | 200 |
| 28 | 2015 | 96 | 19 | 316 | 31,979 | 1,871 | 13,923 | 200 |
| 29 | 2016 | 86 | 17 | 284 | 32,065 | 1,888 | 14,207 | 200 |
| 30 | 2017 | 78 | 16 | 256 | 32,143 | 1,904 | 14,463 | 200 |

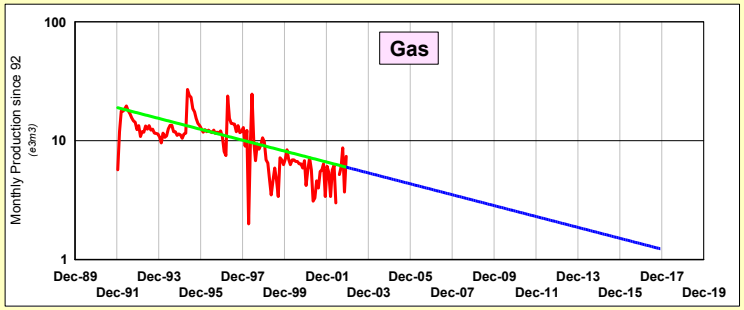
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

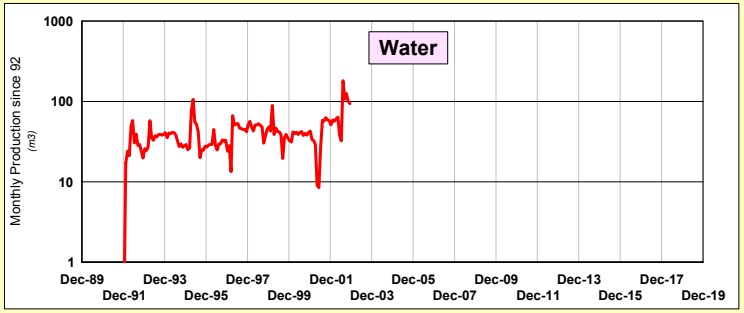
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 200 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 30 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T007274**

Well Name: **Cons et al 34345, Romney 8 - 13 - III**

Status: **Active Well**

MNR Pool: **Romney 6-13-III**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007274**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 127 | m3 per m3 | 142 | last year | |
| 2002 Water/Oil ratio: | 0.2463 | m3 per m3 | 0.0930 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.7330 | m3 per e3m3 | 0.7313 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **269** | m3/yr | **38** | e3m3/yr | **66** | m3/yr |
| Cumm to Date: | **10,550** | m3 | **849** | e3m3 | **621** | m3 |
| Remaining Recoverable: | **1,339** | m3 | **201** | e3m3 | **330** | m3 |
| Total Recovery: | **11,889** | m3 | **1,050** | e3m3 | **950** | m3 |

| | | | | | |
|---|---|---|---|---|---|
| Peak Rate: | 4.1 | m3/d | 0.3 | e3m3/d | based on annual |
| Peak Rate: | 2.6 | m3/d | 0.6 | e3m3/d | since '93 based on monthly |
| Second Year Production: | 3.5 | m3/d | 0.0 | e3m3/d | per day based on annual |
| Current Rate: | 0.7 | m3/d | 0.1 | e3m3/d | |
| Current decline rate: | 15% | | annually | | |

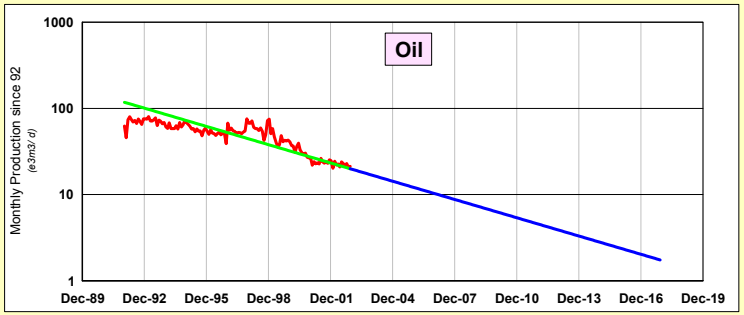
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 58 | 0 | 0 | 58 | 0 | 0 | 0 |
| 2 | 1989 | 1,282 | 0 | 0 | 1,340 | 0 | 0 | 0 |
| 3 | 1990 | 1,504 | 0 | 0 | 2,843 | 0 | 0 | 0 |
| 4 | 1991 | 1,031 | 0 | 0 | 3,874 | 0 | 0 | 0 |
| 5 | 1992 | 833 | 89 | 1 | 4,708 | 89 | 1 | 107 |
| 6 | 1993 | 869 | 84 | 2 | 5,577 | 173 | 2 | 97 |
| 7 | 1994 | 750 | 94 | 1 | 6,327 | 267 | 3 | 125 |
| 8 | 1995 | 696 | 100 | 0 | 7,023 | 366 | 3 | 143 |
| 9 | 1996 | 608 | 78 | 23 | 7,632 | 444 | 26 | 128 |
| 10 | 1997 | 683 | 99 | 112 | 8,314 | 544 | 137 | 146 |
| 11 | 1998 | 718 | 103 | 159 | 9,032 | 646 | 296 | 143 |
| 12 | 1999 | 563 | 75 | 141 | 9,595 | 722 | 437 | 133 |
| 13 | 2000 | 399 | 45 | 68 | 9,993 | 766 | 505 | 112 |
| 14 | 2001 | 288 | 44 | 50 | 10,281 | 811 | 555 | 154 |
| 15 | 2002 | 269 | 38 | 66 | 10,550 | 849 | 621 | 142 |
| 16 | 2003 | 220 | 33 | 54 | 10,770 | 882 | 675 | 150 |
| 17 | 2004 | 187 | 28 | 46 | 10,957 | 910 | 721 | 150 |
| 18 | 2005 | 159 | 24 | 39 | 11,116 | 934 | 760 | 150 |
| 19 | 2006 | 135 | 20 | 33 | 11,251 | 954 | 793 | 150 |
| 20 | 2007 | 115 | 17 | 28 | 11,366 | 971 | 822 | 150 |
| 21 | 2008 | 98 | 15 | 24 | 11,464 | 986 | 846 | 150 |
| 22 | 2009 | 83 | 12 | 20 | 11,547 | 998 | 866 | 150 |
| 23 | 2010 | 71 | 11 | 17 | 11,617 | 1,009 | 884 | 150 |
| 24 | 2011 | 60 | 9 | 15 | 11,677 | 1,018 | 898 | 150 |
| 25 | 2012 | 51 | 8 | 13 | 11,728 | 1,026 | 911 | 150 |
| 26 | 2013 | 43 | 6 | 11 | 11,771 | 1,032 | 922 | 150 |
| 27 | 2014 | 37 | 6 | 9 | 11,808 | 1,038 | 931 | 150 |
| 28 | 2015 | 31 | 5 | 8 | 11,840 | 1,042 | 938 | 150 |
| 29 | 2016 | 27 | 4 | 7 | 11,866 | 1,046 | 945 | 150 |
| 30 | 2017 | 23 | 3 | 6 | 11,889 | 1,050 | 950 | 150 |

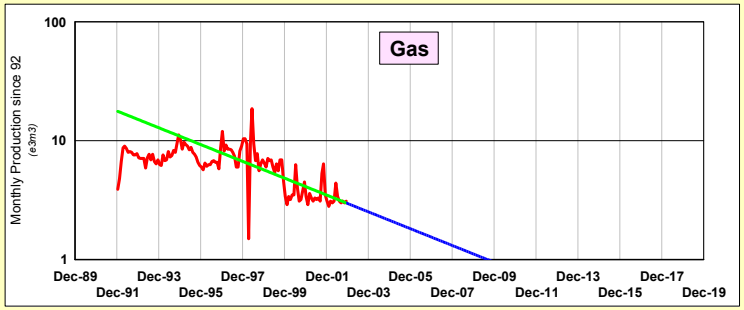
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

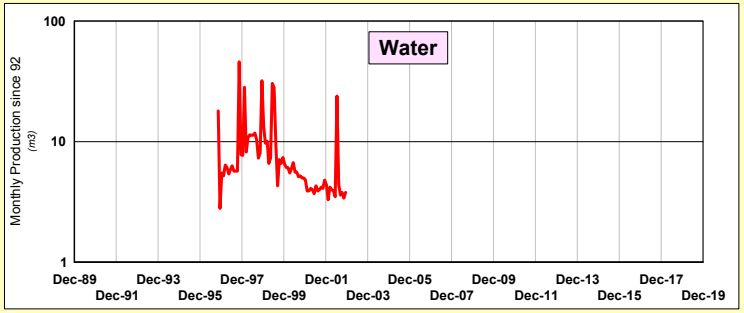
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 150 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 20 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T007410**

Well Name: **Cons et al 34351, Romney 8 - 13 - IV**

Status: **Abandoned Well**

MNR Pool: **Romney 6-13-IV**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007410**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 103 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 152.5000 | m3 per m3 | 2.1169 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 20.5703 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 0 | e3m3/yr | 31 | m3/yr |
| Cumm to Date: | 27,355 | m3 | 1,460 | e3m3 | 30,024 | m3 |
| Remaining Recoverable: | 0 | m3 | 0 | e3m3 | 0 | m3 |
| Total Recovery: | 27,355 | m3 | 1,460 | e3m3 | 30,024 | m3 |
| Peak Rate: | 14.7 | m3/d | 0.8 | e3m3/d | based on annual | |
| Peak Rate: | 9.9 | m3/d | 1.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 13.5 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

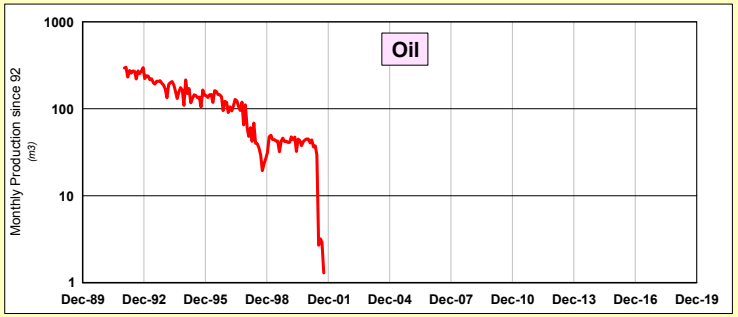
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 5,386 | 0 | 0 | 5,386 | 0 | 0 | 0 |
| 2 | 1990 | 4,943 | 0 | 0 | 10,329 | 0 | 0 | 0 |
| 3 | 1991 | 2,844 | 0 | 0 | 13,172 | 0 | 0 | 0 |
| 4 | 1992 | 3,222 | 302 | 2,339 | 16,395 | 302 | 2,339 | 94 |
| 5 | 1993 | 2,540 | 269 | 2,386 | 18,935 | 571 | 4,725 | 106 |
| 6 | 1994 | 1,984 | 224 | 2,564 | 20,919 | 795 | 7,288 | 113 |
| 7 | 1995 | 1,757 | 212 | 2,677 | 22,676 | 1,007 | 9,965 | 121 |
| 8 | 1996 | 1,653 | 207 | 3,541 | 24,329 | 1,214 | 13,506 | 125 |
| 9 | 1997 | 1,269 | 93 | 3,760 | 25,598 | 1,306 | 17,266 | 73 |
| 10 | 1998 | 495 | 36 | 2,893 | 26,093 | 1,342 | 20,159 | 72 |
| 11 | 1999 | 508 | 77 | 3,431 | 26,601 | 1,419 | 23,590 | 152 |
| 12 | 2000 | 511 | 28 | 3,656 | 27,112 | 1,447 | 27,247 | 55 |
| 13 | 2001 | 243 | 12 | 2,747 | 27,355 | 1,460 | 29,994 | 51 |
| 14 | 2002 | 0 | 0 | 31 | 27,355 | 1,460 | 30,024 | 0 |
| 14 | 2003 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2004 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2005 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2006 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2007 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2008 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2009 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2010 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2011 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2012 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2013 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2014 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2015 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2016 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |
| 14 | 2017 | 0 | 0 | 0 | 27,355 | 1,460 | 30,024 | ERR |

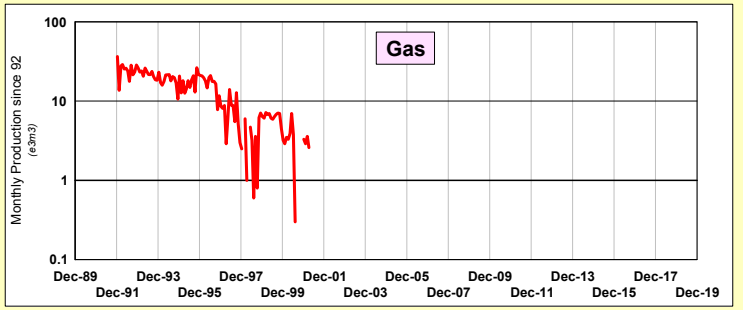
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

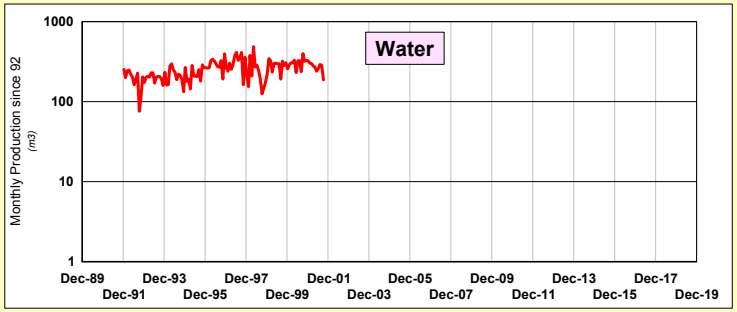
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | 0.0237 | per month | Decline Factor: | 0.0237 | per month |



Well No.: **T007315**

Well Name: **Cons et al 34347, Romney 6 - 13 - IV**

Status: **Abandoned Well**

MNR Pool: **Romney 6-13-IV**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007315**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 306 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 8.6657 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 28.3300 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **37,541** | m3 | **3,135** | e3m3 | **88,829** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **37,541** | m3 | **3,135** | e3m3 | **88,829** | m3 |
| Peak Rate: | 39.0 | m3/d | 3.5 | e3m3/d | based on annual | |
| Peak Rate: | 11.1 | m3/d | 4.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 39.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1988 | 5,902 | 0 | 0 | 5,902 | 0 | 0 | 0 |
| 2 | 1989 | 14,234 | 0 | 0 | 20,135 | 0 | 0 | 0 |
| 3 | 1990 | 3,735 | 0 | 0 | 23,870 | 0 | 0 | 0 |
| 4 | 1991 | 3,421 | 0 | 0 | 27,291 | 0 | 0 | 0 |
| 5 | 1992 | 3,208 | 444 | 9,860 | 30,499 | 444 | 9,860 | 138 |
| 6 | 1993 | 2,090 | 187 | 6,593 | 32,589 | 631 | 16,453 | 89 |
| 7 | 1994 | 1,361 | 155 | 7,653 | 33,950 | 785 | 24,106 | 114 |
| 8 | 1995 | 1,440 | 1,296 | 17,766 | 35,390 | 2,082 | 41,872 | 900 |
| 9 | 1996 | 1,174 | 861 | 18,574 | 36,564 | 2,942 | 60,445 | 733 |
| 10 | 1997 | 500 | 136 | 12,570 | 37,063 | 3,078 | 73,015 | 273 |
| 11 | 1998 | 415 | 49 | 11,443 | 37,478 | 3,127 | 84,459 | 118 |
| 12 | 1999 | 63 | 8 | 4,370 | 37,541 | 3,135 | 88,829 | 130 |
| 12 | 2000 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2001 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2002 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2003 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2004 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2005 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2006 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2007 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2008 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2009 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2010 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2011 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2012 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2013 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2014 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2015 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2016 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |
| 12 | 2017 | 0 | 0 | 0 | 37,541 | 3,135 | 88,829 | ERR |

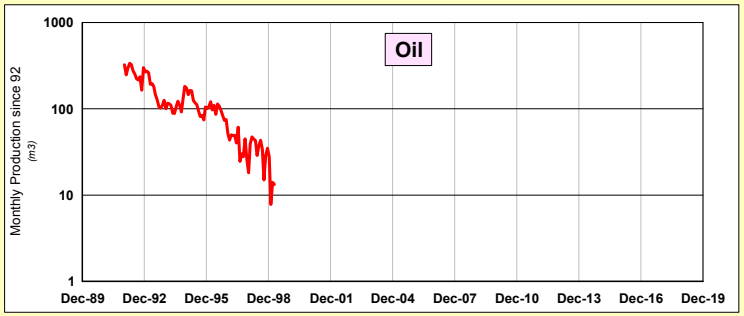
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

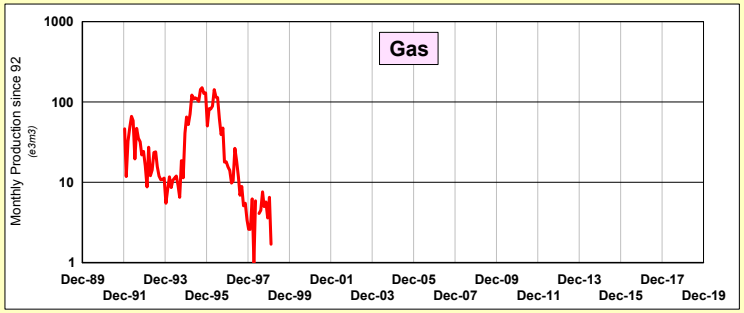
Revised May 27th 2004

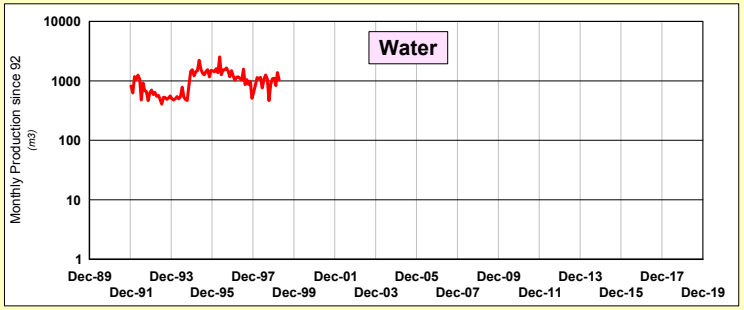
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |

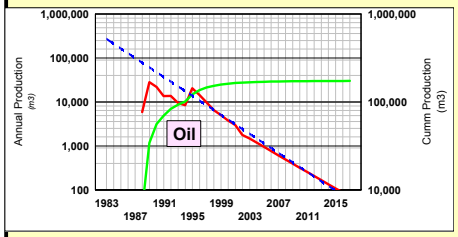


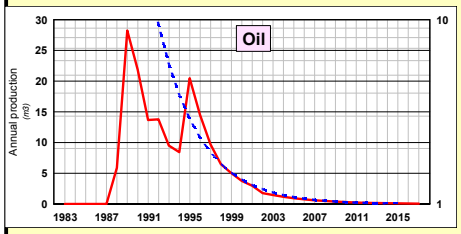



## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Romney 6-13-IV**
TGI Pool: **Renwick Pool**
TGI Field: **Renwick-Fargo Field**
No of Wells: **11**




**22%** Pool Decline

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

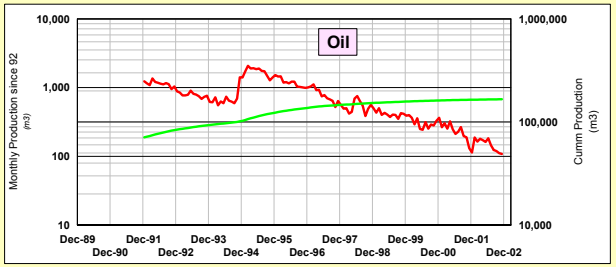
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 1,772 | m3/yr | 181 | e3m3/yr | 13,145 | m3/yr |
| Cumm to Date: | 166,261 | m3 | 13,588 | e3m3 | 350,119 | m3 |
| Remaining Recoverable: | 7,251 | m3 | 738 | e3m3 | 52,195 | m3 |
| Total Recovery: | 173,512 | m3 | 14,325 | e3m3 | 402,314 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 5 | m3/d | 0 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

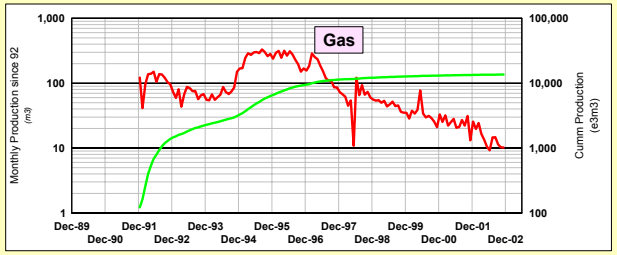
| Wells on Production | Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1988 | 5,902 | 0 | 0 | 5,902 | 0 | 0 | |
| 7 | 2 | 1989 | 28,244 | 0 | 0 | 34,146 | 0 | 0 | |
| 9 | 3 | 1990 | 21,896 | 0 | 0 | 56,042 | 0 | 0 | |
| 9 | 4 | 1991 | 13,680 | 0 | 0 | 69,722 | 0 | 0 | |
| 9 | 5 | 1992 | 13,790 | 1,389 | 47,718 | 83,512 | 1,389 | 47,718 | |
| 9 | 6 | 1993 | 9,515 | 838 | 27,221 | 93,028 | 2,227 | 74,939 | 88 |
| 8 | 7 | 1994 | 8,447 | 899 | 25,926 | 101,475 | 3,126 | 100,865 | 106 |
| 8 | 8 | 1995 | 20,475 | 3,219 | 36,738 | 121,950 | 6,345 | 137,603 | 157 |
| 8 | 9 | 1996 | 14,503 | 3,010 | 53,643 | 136,453 | 9,355 | 191,246 | 208 |
| 8 | 10 | 1997 | 9,731 | 1,961 | 55,581 | 146,183 | 11,316 | 246,828 | 201 |
| 9 | 11 | 1998 | 6,499 | 794 | 35,997 | 152,682 | 12,109 | 282,824 | 122 |
| 7 | 12 | 1999 | 5,048 | 574 | 21,711 | 157,730 | 12,683 | 304,535 | 114 |
| 6 | 13 | 2000 | 3,771 | 423 | 17,294 | 161,501 | 13,105 | 321,829 | 112 |
| 6 | 14 | 2001 | 2,988 | 301 | 15,146 | 164,489 | 13,407 | 336,975 | 101 |
| 6 | 15 | 2002 | 1,772 | 181 | 13,145 | 166,261 | 13,588 | 350,119 | 102 |
| | 16 | 2003 | 1,479 | 153 | 10,791 | 167,739 | 13,740 | 360,910 | 103 |
| | 17 | 2004 | 1,188 | 122 | 8,638 | 168,927 | 13,863 | 369,548 | 103 |
| | 18 | 2005 | 954 | 98 | 6,915 | 169,881 | 13,961 | 376,463 | 103 |
| | 19 | 2006 | 767 | 78 | 5,536 | 170,648 | 14,039 | 382,000 | 102 |
| | 20 | 2007 | 616 | 63 | 4,432 | 171,264 | 14,102 | 386,432 | 102 |
| | 21 | 2008 | 495 | 50 | 3,549 | 171,760 | 14,152 | 389,981 | 101 |
| | 22 | 2009 | 398 | 40 | 2,841 | 172,158 | 14,192 | 392,822 | 101 |
| | 23 | 2010 | 320 | 32 | 2,275 | 172,478 | 14,224 | 395,097 | 100 |
| | 24 | 2011 | 258 | 26 | 1,822 | 172,736 | 14,249 | 396,919 | 99 |
| | 25 | 2012 | 208 | 21 | 1,459 | 172,944 | 14,270 | 398,379 | 99 |
| | 26 | 2013 | 167 | 16 | 1,169 | 173,111 | 14,286 | 399,547 | 98 |
| | 27 | 2014 | 135 | 13 | 936 | 173,246 | 14,300 | 400,483 | 98 |
| | 28 | 2015 | 108 | 11 | 750 | 173,354 | 14,310 | 401,233 | 97 |
| | 29 | 2016 | 87 | 8 | 601 | 173,442 | 14,318 | 401,833 | 96 |
| | 30 | 2017 | 71 | 7 | 481 | 173,512 | 14,325 | 402,314 | 95 |
| | | To date: | 166,261 | 13,588 | 350,119 | | | | 0.1407 |

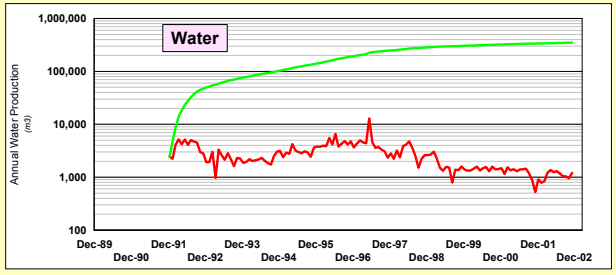
Revised May 27th 2004

## Monthly Production vs Month
*(1992 to 2002)*

42736



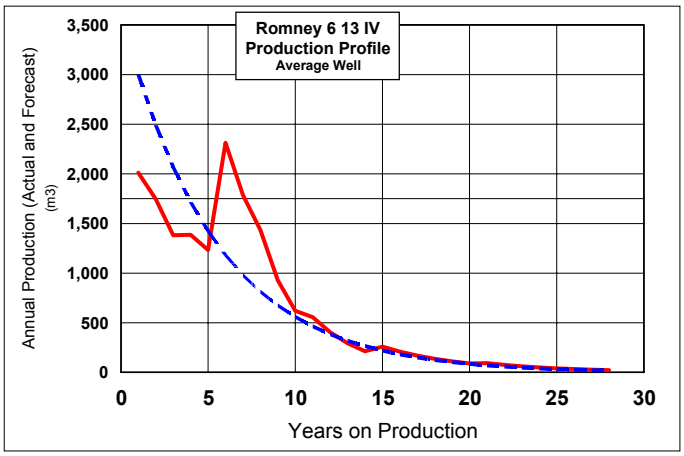
# Romney 6-13-IV

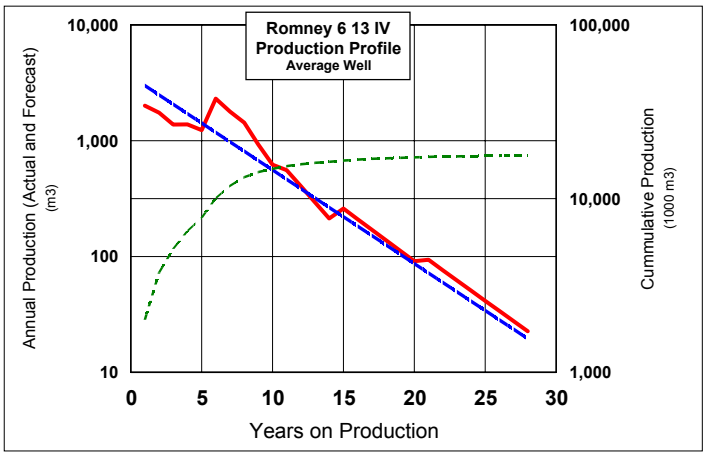
# Average Well

GOR: 90
WOR: 3.627

| Prod Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|
| 1 | 3,000 | 270 | 10,880 | 3,000 | 270 | 10,880 | 90 |
| 2 | 2,490 | 224 | 9,031 | 5,490 | 494 | 19,911 | 90 |
| 3 | 2,067 | 186 | 7,495 | 7,557 | 680 | 27,406 | 90 |
| 4 | 1,715 | 154 | 6,221 | 9,272 | 834 | 33,627 | 90 |
| 5 | 1,424 | 128 | 5,164 | 10,696 | 963 | 38,791 | 90 |
| 6 | 1,182 | 106 | 4,286 | 11,878 | 1,069 | 43,077 | 90 |
| 7 | 981 | 88 | 3,557 | 12,858 | 1,157 | 46,634 | 90 |
| 8 | 814 | 73 | 2,952 | 13,672 | 1,231 | 49,586 | 90 |
| 9 | 676 | 61 | 2,451 | 14,348 | 1,291 | 52,037 | 90 |
| 10 | 561 | 50 | 2,034 | 14,909 | 1,342 | 54,071 | 90 |
| 11 | 465 | 42 | 1,688 | 15,374 | 1,384 | 55,759 | 90 |
| 12 | 386 | 35 | 1,401 | 15,761 | 1,418 | 57,160 | 90 |
| 13 | 321 | 29 | 1,163 | 16,081 | 1,447 | 58,323 | 90 |
| 14 | 266 | 24 | 965 | 16,348 | 1,471 | 59,288 | 90 |
| 15 | 221 | 20 | 801 | 16,569 | 1,491 | 60,089 | 90 |
| 16 | 183 | 17 | 665 | 16,752 | 1,508 | 60,754 | 90 |
| 17 | 152 | 14 | 552 | 16,904 | 1,521 | 61,306 | 90 |
| 18 | 126 | 11 | 458 | 17,030 | 1,533 | 61,764 | 90 |
| 19 | 105 | 9 | 380 | 17,135 | 1,542 | 62,145 | 90 |
| 20 | 87 | 8 | 316 | 17,222 | 1,550 | 62,460 | 90 |
| 21 | 72 | 7 | 262 | 17,294 | 1,556 | 62,722 | 90 |
| 22 | 60 | 5 | 217 | 17,354 | 1,562 | 62,940 | 90 |
| 23 | 50 | 4 | 180 | 17,404 | 1,566 | 63,120 | 90 |
| 24 | 41 | 4 | 150 | 17,445 | 1,570 | 63,270 | 90 |
| 25 | 34 | 3 | 124 | 17,480 | 1,573 | 63,394 | 90 |
| 26 | 28 | 3 | 103 | 17,508 | 1,576 | 63,497 | 90 |
| 27 | 24 | 2 | 86 | 17,532 | 1,578 | 63,583 | 90 |
| 28 | 20 | 2 | 71 | 17,551 | 1,580 | 63,654 | 90 |
| 29 | 16 | 1 | 59 | 17,568 | 1,581 | 63,713 | 90 |
| 30 | 14 | 1 | 49 | 17,581 | 1,582 | 63,762 | 90 |
| 31 | 11 | 1 | 41 | 17,592 | 1,583 | 63,803 | 90 |
| 32 | 9 | 1 | 34 | 17,602 | 1,584 | 63,836 | 90 |
| | 17,602 | 1,584 | 63,836 | | | | |

| Average Well Oil | | |
|---|---|---|
| Start: | 3000 | m3 per year |
| Decline Rate | 17.0% | per year |
| Decline Factc | 0.0154 | per month |
| Recovery | 17,602 | m3 |




Revised May 27th 2004

Well No.: **T008663**

Well Name: **Talisman (Horiz.#1), Romney 8 - 16 - III**

Status: **Active Well**

MNR Pool: **Romney 6-13-IV**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T008663**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 139 | m3 per m3 | 92 | last year | |
| 2002 Water/Oil ratio: | 1.6703 | m3 per m3 | 0.6194 | last 10 years | |
| 2002 Water/ Gas Ratio: | 18.1279 | m3 per e3m3 | 4.4412 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **509** | m3/yr | **47** | e3m3/yr | **850** | m3/yr |
| Cumm to Date: | **4,245** | m3 | **592** | e3m3 | **2,629** | m3 |
| Remaining Recoverable: | **2,056** | m3 | **206** | e3m3 | **3,434** | m3 |
| Total Recovery: | **6,301** | m3 | **798** | e3m3 | **6,064** | m3 |

| | | | |
|---|---|---|---|
| Peak Rate: | 3.5 | m3/d | 0.6 e3m3/d based on annual |
| Peak Rate: | 9.4 | m3/d | 2.3 e3m3/d since '93 based on monthly |
| Second Year Production: | 2.3 | m3/d | 0.4 e3m3/d per day based on annual |
| Current Rate: | 1.4 | m3/d | 0.1 e3m3/d |
| Current decline rate: | 20% | annually | |

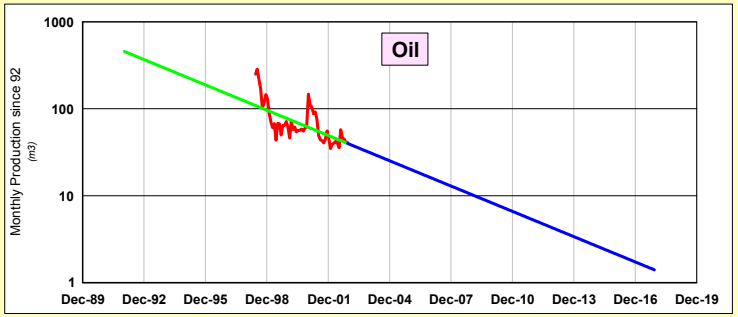
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1998 | 1,288 | 206 | 419 | 1,288 | 206 | 419 | 160 |
| 2 | 1999 | 848 | 139 | 369 | 2,136 | 344 | 788 | 163 |
| 3 | 2000 | 703 | 135 | 303 | 2,839 | 479 | 1,091 | 192 |
| 4 | 2001 | 897 | 66 | 688 | 3,736 | 545 | 1,779 | 74 |
| 5 | 2002 | 509 | 47 | 850 | 4,245 | 592 | 2,629 | 92 |
| 6 | 2003 | 426 | 43 | 712 | 4,671 | 635 | 3,341 | 100 |
| 7 | 2004 | 341 | 34 | 570 | 5,012 | 669 | 3,911 | 100 |
| 8 | 2005 | 273 | 27 | 456 | 5,285 | 696 | 4,366 | 100 |
| 9 | 2006 | 218 | 22 | 365 | 5,503 | 718 | 4,731 | 100 |
| 10 | 2007 | 175 | 17 | 292 | 5,677 | 735 | 5,022 | 100 |
| 11 | 2008 | 140 | 14 | 233 | 5,817 | 749 | 5,256 | 100 |
| 12 | 2009 | 112 | 11 | 187 | 5,929 | 760 | 5,442 | 100 |
| 13 | 2010 | 89 | 9 | 149 | 6,018 | 769 | 5,592 | 100 |
| 14 | 2011 | 72 | 7 | 119 | 6,090 | 777 | 5,711 | 100 |
| 15 | 2012 | 57 | 6 | 96 | 6,147 | 782 | 5,807 | 100 |
| 16 | 2013 | 46 | 5 | 76 | 6,193 | 787 | 5,883 | 100 |
| 17 | 2014 | 37 | 4 | 61 | 6,229 | 790 | 5,944 | 100 |
| 18 | 2015 | 29 | 3 | 49 | 6,259 | 793 | 5,993 | 100 |
| 19 | 2016 | 23 | 2 | 39 | 6,282 | 796 | 6,032 | 100 |
| 20 | 2017 | 19 | 2 | 31 | 6,301 | 798 | 6,064 | 100 |

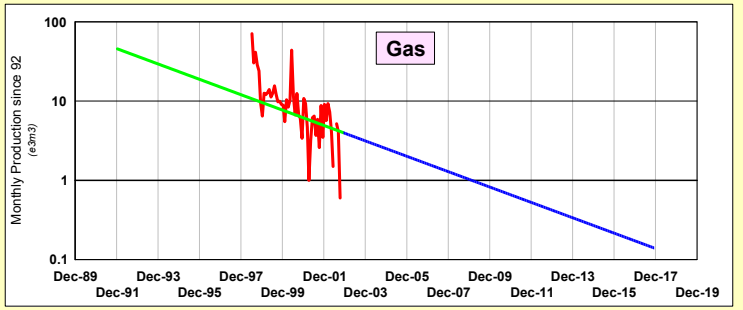
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

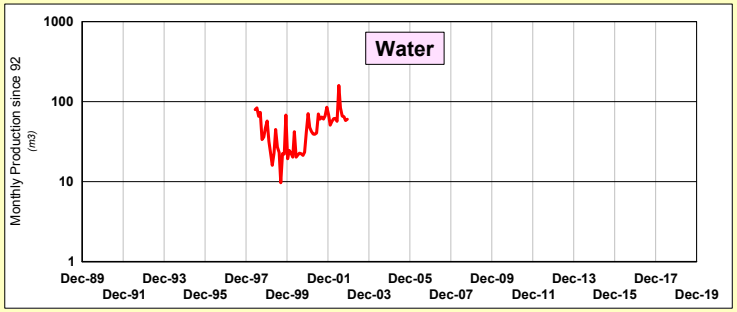
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 40 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008450**

Well Name: **Pembina et al, Romney 2 - 13 - III**

Status: **Plugged back and whipstocke**

MNR Pool: **Romney 6-13-IV**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T008450**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 571 | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 10.7036 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 18.7350 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **1,129** | m3 | **645** | e3m3 | **12,082** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **1,129** | m3 | **645** | e3m3 | **12,082** | m3 |
| Peak Rate: | 2.4 | m3/d | 1.7 | e3m3/d | based on annual | |
| Peak Rate: | 4.5 | m3/d | 4.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.6 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

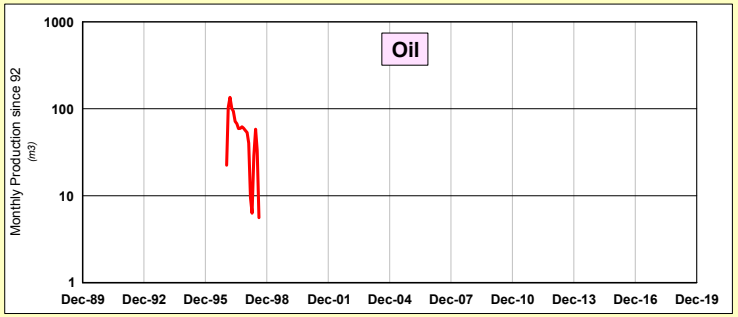
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1997 | 893 | 611 | 5,928 | 893 | 611 | 5,928 | 684 |
| 2 | 1998 | 235 | 34 | 6,155 | 1,129 | 645 | 12,082 | 144 |
| 2 | 1999 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2000 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2001 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2002 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2003 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2004 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2005 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2006 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2007 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2008 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2009 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2010 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2011 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2012 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2013 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2014 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2015 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2016 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |
| 2 | 2017 | 0 | 0 | 0 | 1,129 | 645 | 12,082 | ERR |

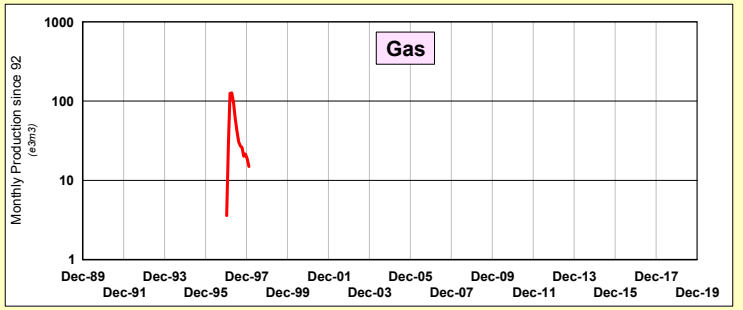
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

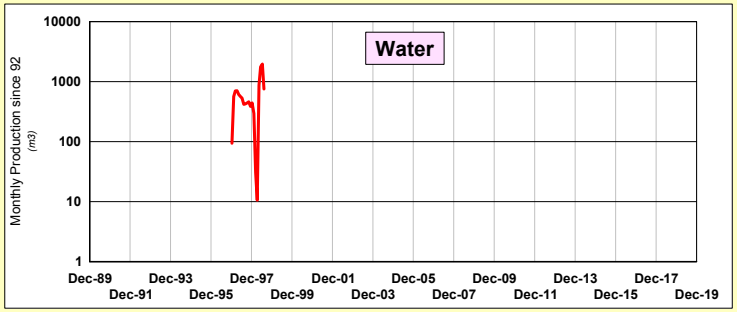
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T007520**

Well Name: **Telesis et al 34337, Romney 6 - 16 - III**

Status: **Abandoned Well**

MNR Pool: **Romney 6-13-IV**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007520**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 190 | m3 per m3 | ERR | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 11.8214 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 62.2159 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 0 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 10,548 | m3 | 1,267 | e3m3 | 78,800 | m3 |
| Remaining Recoverable: | 0 | m3 | 0 | e3m3 | 0 | m3 |
| Total Recovery: | 10,548 | m3 | 1,267 | e3m3 | 78,800 | m3 |
| Peak Rate: | 5.8 | m3/d | 0.8 | e3m3/d | based on annual | |
| Peak Rate: | 7.9 | m3/d | 1.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 5.8 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

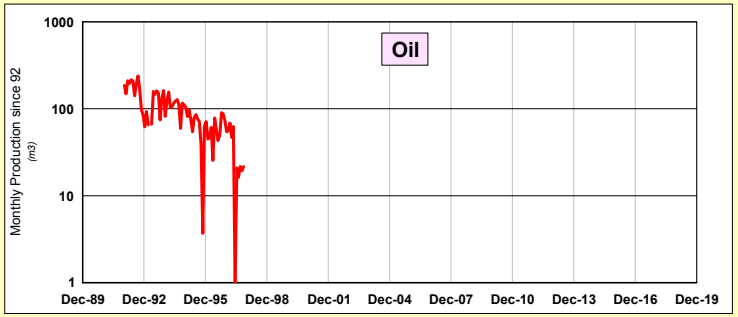
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 26 | 0 | 0 | 26 | 0 | 0 | 0 |
| 2 | 1990 | 2,130 | 0 | 0 | 2,157 | 0 | 0 | 0 |
| 3 | 1991 | 1,726 | 0 | 0 | 3,882 | 0 | 0 | 0 |
| 4 | 1992 | 2,096 | 265 | 15,411 | 5,978 | 265 | 15,411 | 126 |
| 5 | 1993 | 1,270 | 171 | 13,434 | 7,248 | 435 | 28,845 | 135 |
| 6 | 1994 | 1,338 | 290 | 13,647 | 8,587 | 726 | 42,491 | 217 |
| 7 | 1995 | 835 | 284 | 12,826 | 9,421 | 1,009 | 55,318 | 340 |
| 8 | 1996 | 729 | 169 | 13,725 | 10,150 | 1,178 | 69,042 | 232 |
| 9 | 1997 | 389 | 88 | 8,896 | 10,539 | 1,266 | 77,938 | 225 |
| 10 | 1998 | 9 | 1 | 862 | 10,548 | 1,267 | 78,800 | 64 |
| 10 | 1999 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2000 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2001 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2002 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2003 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2004 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2005 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2006 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2007 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2008 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2009 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2010 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2011 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2012 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2013 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2014 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2015 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2016 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |
| 10 | 2017 | 0 | 0 | 0 | 10,548 | 1,267 | 78,800 | ERR |

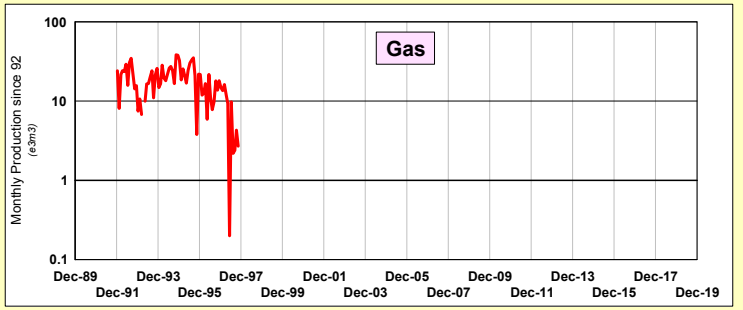
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

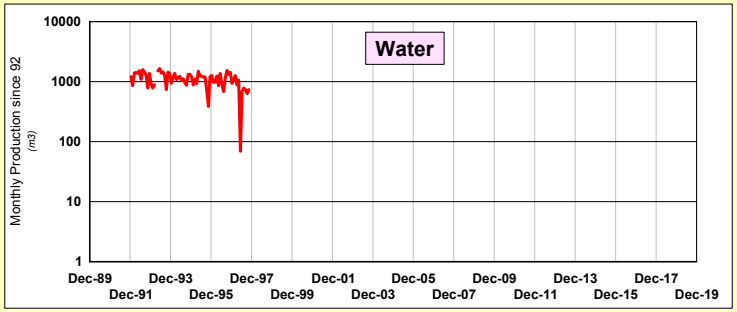
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | 0.0184 | per month | Decline Factor: | 0.0184 | per month |



Well No.: **T007493**

Well Name: **Telesis et al 34354, Romney 2 - 14 - III**

Status: **Active Well**

MNR Pool: **Romney 6-13-IV**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007493**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 80 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 2.3333 | m3 per m3 | 0.5383 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 6.7369 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 1 | m3/yr | 0 | e3m3/yr | 2 | m3/yr |
| Cumm to Date: | 4,751 | m3 | 135 | e3m3 | 907 | m3 |
| Remaining Recoverable: | 0 | m3 | 0 | e3m3 | 0 | m3 |
| Total Recovery: | 4,751 | m3 | 135 | e3m3 | 907 | m3 |
| Peak Rate: | 5.3 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 2.2 | m3/d | 0.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 5.3 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

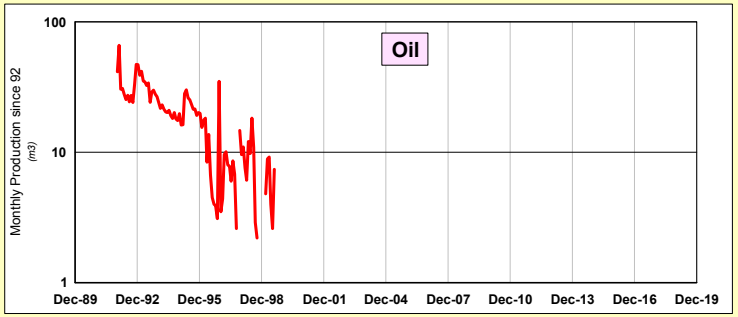
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 318 | 0 | 0 | 318 | 0 | 0 | 0 |
| 2 | 1990 | 1,948 | 0 | 0 | 2,266 | 0 | 0 | 0 |
| 3 | 1991 | 800 | 0 | 0 | 3,065 | 0 | 0 | 0 |
| 4 | 1992 | 406 | 28 | 62 | 3,472 | 28 | 62 | 68 |
| 5 | 1993 | 402 | 24 | 45 | 3,874 | 52 | 108 | 61 |
| 6 | 1994 | 245 | 16 | 58 | 4,118 | 68 | 166 | 67 |
| 7 | 1995 | 268 | 19 | 87 | 4,386 | 88 | 253 | 73 |
| 8 | 1996 | 150 | 22 | 220 | 4,537 | 110 | 473 | 147 |
| 9 | 1997 | 82 | 22 | 159 | 4,619 | 132 | 632 | 264 |
| 10 | 1998 | 91 | 3 | 182 | 4,709 | 135 | 814 | 34 |
| 11 | 1999 | 38 | 0 | 84 | 4,747 | 135 | 898 | 0 |
| 12 | 2000 | 1 | 0 | 3 | 4,748 | 135 | 902 | 0 |
| 13 | 2001 | 2 | 0 | 4 | 4,750 | 135 | 905 | 0 |
| 14 | 2002 | 1 | 0 | 2 | 4,751 | 135 | 907 | 0 |
| 14 | 2003 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2004 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2005 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2006 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2007 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2008 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2009 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2010 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2011 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2012 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2013 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2014 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2015 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2016 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |
| 14 | 2017 | 0 | 0 | 0 | 4,751 | 135 | 907 | ERR |

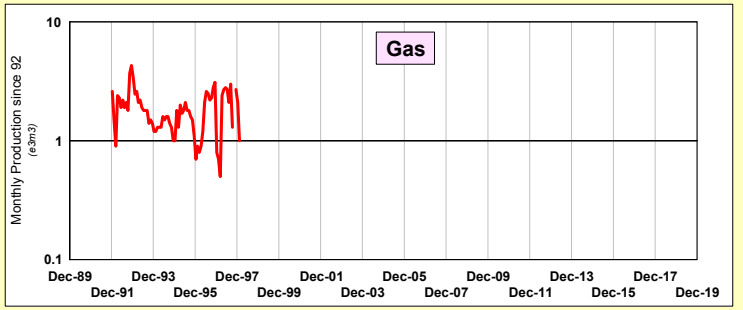
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

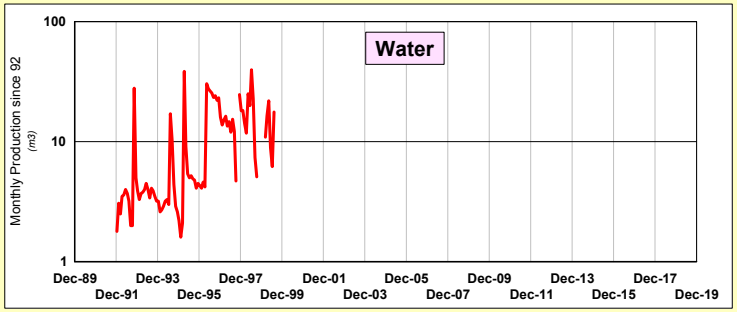
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | 0.0237 | per month | Decline Factor: | 0.0237 | per month |



Well No.: **T007481**

Well Name: **Telesis et al 34336, Romney 4 - 15 - III**

Status: **Active Well**

MNR Pool: **Romney 6-13-IV**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007481**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 94 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 18.4000 | m3 per m3 | 3.6667 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 38.9856 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 1 | m3/yr | 0 | e3m3/yr | 18 | m3/yr |
| Cumm to Date: | 15,449 | m3 | 697 | e3m3 | 27,155 | m3 |
| Remaining Recoverable: | 0 | m3 | 0 | e3m3 | 0 | m3 |
| Total Recovery: | 15,449 | m3 | 697 | e3m3 | 27,155 | m3 |
| Peak Rate: | 10.4 | m3/d | 0.4 | e3m3/d | based on annual | |
| Peak Rate: | 6.1 | m3/d | 0.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 10.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

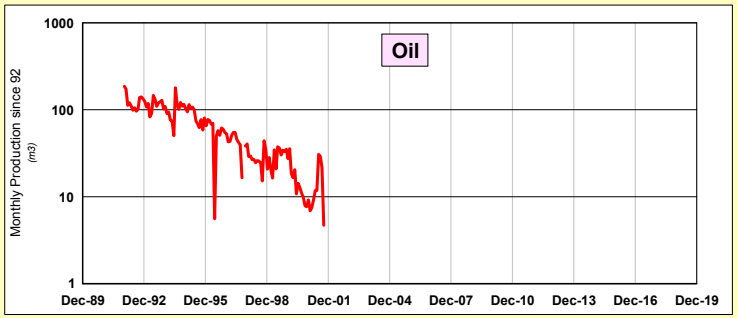
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 2,265 | 0 | 0 | 2,265 | 0 | 0 | 0 |
| 2 | 1990 | 3,810 | 0 | 0 | 6,074 | 0 | 0 | 0 |
| 3 | 1991 | 1,969 | 0 | 0 | 8,043 | 0 | 0 | 0 |
| 4 | 1992 | 1,519 | 152 | 1,187 | 9,562 | 152 | 1,187 | 100 |
| 5 | 1993 | 1,390 | 125 | 1,365 | 10,952 | 277 | 2,552 | 90 |
| 6 | 1994 | 1,236 | 101 | 1,408 | 12,188 | 378 | 3,961 | 82 |
| 7 | 1995 | 1,048 | 138 | 2,082 | 13,236 | 516 | 6,043 | 132 |
| 8 | 1996 | 698 | 97 | 5,262 | 13,934 | 613 | 11,305 | 139 |
| 9 | 1997 | 482 | 37 | 2,432 | 14,416 | 651 | 13,737 | 78 |
| 10 | 1998 | 348 | 37 | 3,299 | 14,764 | 688 | 17,036 | 108 |
| 11 | 1999 | 348 | 5 | 3,867 | 15,112 | 693 | 20,903 | 14 |
| 12 | 2000 | 193 | 4 | 3,623 | 15,305 | 697 | 24,526 | 19 |
| 13 | 2001 | 143 | 0 | 2,611 | 15,448 | 697 | 27,137 | 0 |
| 14 | 2002 | 1 | 0 | 18 | 15,449 | 697 | 27,155 | 0 |
| 14 | 2003 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2004 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2005 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2006 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2007 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2008 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2009 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2010 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2011 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2012 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2013 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2014 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2015 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2016 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |
| 14 | 2017 | 0 | 0 | 0 | 15,449 | 697 | 27,155 | ERR |

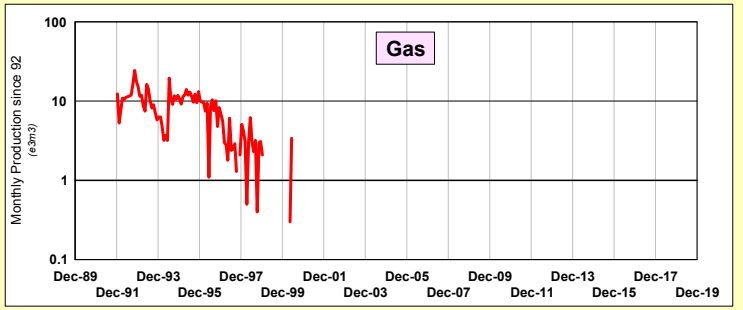
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

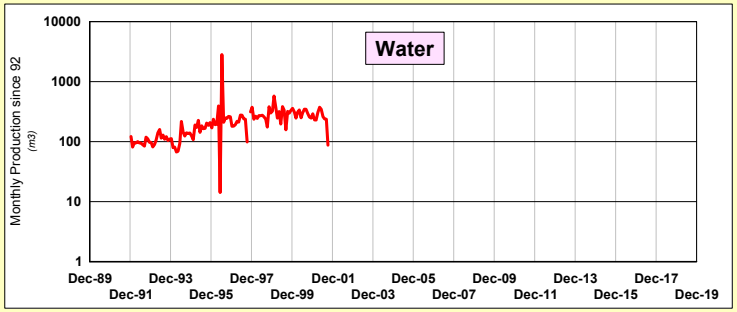
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | 0.0237 | per month | Decline Factor: | 0.0237 | per month |



Well No.: **T007478**

Well Name: **Farmers No. 8, Romney 1 - 14 - III**

Status: **Suspended Well**

MNR Pool: **Romney 6-13-IV**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007478**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | ERR | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 1.0216 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **505** | m3 | **0** | e3m3 | **225** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **505** | m3 | **0** | e3m3 | **225** | m3 |
| Peak Rate: | 0.4 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 1.2 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

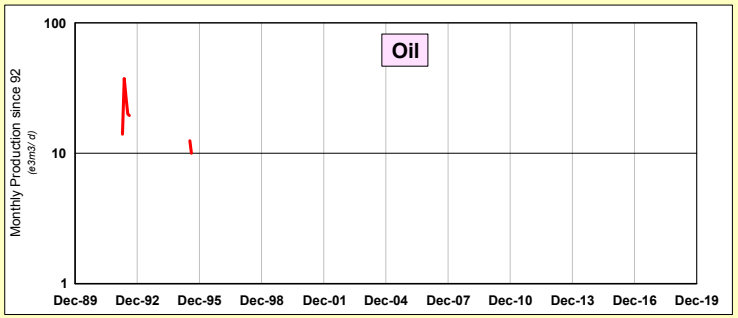
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1990 | 147 | 0 | 0 | 147 | 0 | 0 | 0 |
| 2 | 1991 | 138 | 0 | 0 | 285 | 0 | 0 | 0 |
| 3 | 1992 | 118 | 0 | 0 | 403 | 0 | 0 | 0 |
| 4 | 1993 | 48 | 0 | 0 | 451 | 0 | 0 | 0 |
| 5 | 1994 | 17 | 0 | 0 | 468 | 0 | 0 | 0 |
| 6 | 1995 | 23 | 0 | 0 | 490 | 0 | 0 | 0 |
| 7 | 1996 | 15 | 0 | 225 | 505 | 0 | 225 | 0 |
| 7 | 1997 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 1998 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 1999 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2000 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2001 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2002 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2003 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2004 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2005 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2006 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2007 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2008 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2009 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2010 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2011 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2012 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2013 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2014 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2015 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2016 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |
| 7 | 2017 | 0 | 0 | 0 | 505 | 0 | 225 | ERR |

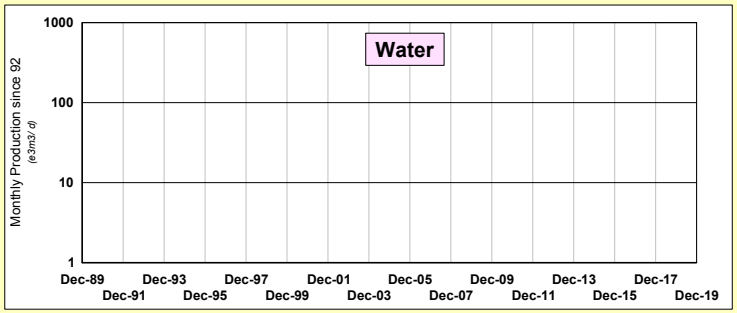
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T007453**

Well Name: **Telesis et al 34353, Romney 5 - 12 - IV**

Status: **Active Well**

MNR Pool: **Romney 6-13-IV**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007453**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 119 | m3 per m3 | 115 | last year | |
| 2002 Water/Oil ratio: | 10.3944 | m3 per m3 | 1.9045 | last 10 years | |
| 2002 Water/ Gas Ratio: | 90.7427 | m3 per e3m3 | 16.0202 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,167** | m3/yr | **134** | e3m3/yr | **12,132** | m3/yr |
| Cumm to Date: | **49,227** | m3 | **5,507** | e3m3 | **88,220** | m3 |
| Remaining Recoverable: | **4,626** | m3 | **532** | e3m3 | **48,088** | m3 |
| Total Recovery: | **53,854** | m3 | **6,039** | e3m3 | **136,308** | m3 |
| Peak Rate: | 40.4 | m3/d | 4.5 | e3m3/d | based on annual | |
| Peak Rate: | 49.1 | m3/d | 6.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.8 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 3.2 | m3/d | 0.4 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

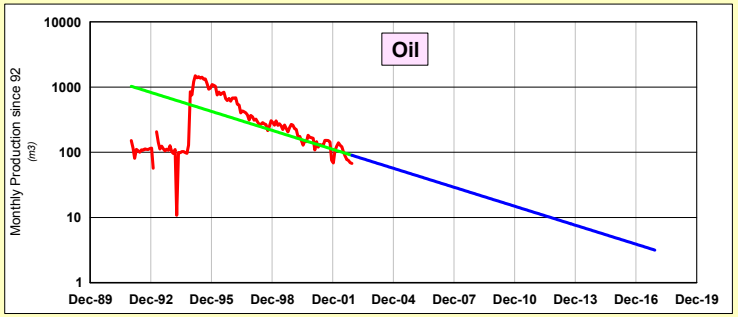
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1990 | 1,537 | 0 | 0 | 1,537 | 0 | 0 | 0 |
| 2 | 1991 | 1,370 | 0 | 0 | 2,907 | 0 | 0 | 0 |
| 3 | 1992 | 1,332 | 50 | 523 | 4,238 | 50 | 523 | 37 |
| 4 | 1993 | 1,321 | 60 | 645 | 5,559 | 110 | 1,168 | 45 |
| 5 | 1994 | 1,893 | 113 | 596 | 7,452 | 223 | 1,764 | 60 |
| 6 | 1995 | 14,770 | 1,269 | 1,300 | 22,222 | 1,492 | 3,064 | 86 |
| 7 | 1996 | 9,769 | 1,655 | 12,097 | 31,991 | 3,147 | 15,161 | 169 |
| 8 | 1997 | 5,831 | 974 | 21,837 | 37,822 | 4,121 | 36,998 | 167 |
| 9 | 1998 | 3,405 | 429 | 10,743 | 41,226 | 4,549 | 47,741 | 126 |
| 10 | 1999 | 3,068 | 345 | 9,590 | 44,294 | 4,894 | 57,331 | 112 |
| 11 | 2000 | 2,161 | 256 | 9,708 | 46,455 | 5,150 | 67,039 | 119 |
| 12 | 2001 | 1,606 | 223 | 9,048 | 48,060 | 5,373 | 76,087 | 139 |
| 13 | 2002 | 1,167 | 134 | 12,132 | 49,227 | 5,507 | 88,220 | 115 |
| 14 | 2003 | 959 | 110 | 9,968 | 50,186 | 5,617 | 98,188 | 115 |
| 15 | 2004 | 767 | 88 | 7,975 | 50,954 | 5,705 | 106,163 | 115 |
| 16 | 2005 | 614 | 71 | 6,380 | 51,567 | 5,776 | 112,542 | 115 |
| 17 | 2006 | 491 | 56 | 5,104 | 52,058 | 5,832 | 117,646 | 115 |
| 18 | 2007 | 393 | 45 | 4,083 | 52,451 | 5,878 | 121,729 | 115 |
| 19 | 2008 | 314 | 36 | 3,266 | 52,765 | 5,914 | 124,996 | 115 |
| 20 | 2009 | 251 | 29 | 2,613 | 53,017 | 5,943 | 127,609 | 115 |
| 21 | 2010 | 201 | 23 | 2,091 | 53,218 | 5,966 | 129,699 | 115 |
| 22 | 2011 | 161 | 19 | 1,672 | 53,379 | 5,984 | 131,372 | 115 |
| 23 | 2012 | 129 | 15 | 1,338 | 53,508 | 5,999 | 132,710 | 115 |
| 24 | 2013 | 103 | 12 | 1,070 | 53,611 | 6,011 | 133,780 | 115 |
| 25 | 2014 | 82 | 9 | 856 | 53,693 | 6,020 | 134,636 | 115 |
| 26 | 2015 | 66 | 8 | 685 | 53,759 | 6,028 | 135,321 | 115 |
| 27 | 2016 | 53 | 6 | 548 | 53,812 | 6,034 | 135,869 | 115 |
| 28 | 2017 | 42 | 5 | 438 | 53,854 | 6,039 | 136,308 | 115 |

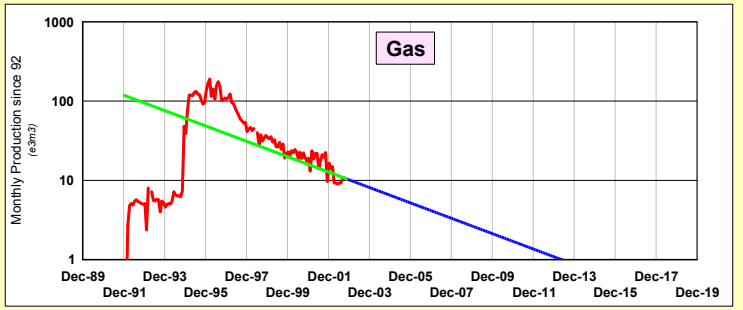
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

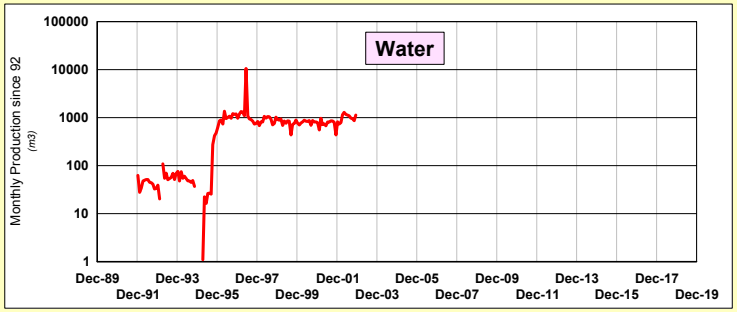
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 115 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 90 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007427**

Well Name: **Senex, Romney 7 - 17 - III**

Status: **Active Well**

MNR Pool: **Romney 6-13-IV**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007427**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | 0 | last year |
| 2002 Water/Oil ratio: | 1.1821 | m3 per m3 | 0.0515 | last 10 years |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **94** | m3/yr | **0** | e3m3/yr | **111** | m3/yr |
| Cumm to Date: | **5,846** | m3 | **0** | e3m3 | **159** | m3 |
| Remaining Recoverable: | **569** | m3 | **0** | e3m3 | **673** | m3 |
| Total Recovery: | **6,415** | m3 | **0** | e3m3 | **832** | m3 |
| Peak Rate: | 2.9 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 1.8 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.6 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.3 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

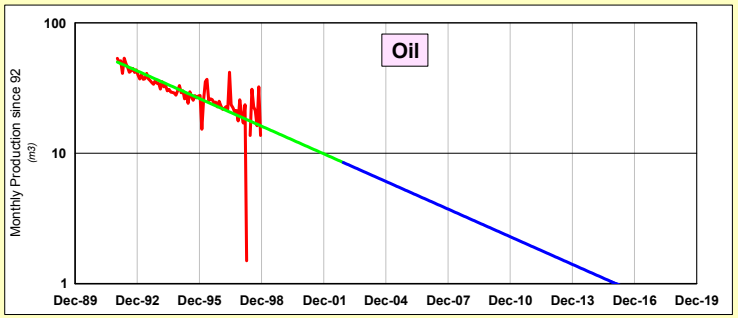
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 1,048 | 0 | 0 | 1,048 | 0 | 0 | 0 |
| 2 | 1990 | 942 | 0 | 0 | 1,990 | 0 | 0 | 0 |
| 3 | 1991 | 762 | 0 | 0 | 2,752 | 0 | 0 | 0 |
| 4 | 1992 | 558 | 0 | 1 | 3,310 | 0 | 1 | 0 |
| 5 | 1993 | 445 | 0 | 0 | 3,755 | 0 | 1 | 0 |
| 6 | 1994 | 373 | 0 | 0 | 4,128 | 0 | 1 | 0 |
| 7 | 1995 | 336 | 0 | 0 | 4,464 | 0 | 1 | 0 |
| 8 | 1996 | 315 | 0 | 0 | 4,779 | 0 | 1 | 0 |
| 9 | 1997 | 285 | 0 | 0 | 5,064 | 0 | 1 | 0 |
| 10 | 1998 | 213 | 0 | 0 | 5,277 | 0 | 1 | 0 |
| 11 | 1999 | 175 | 0 | 0 | 5,451 | 0 | 1 | 0 |
| 12 | 2000 | 202 | 0 | 0 | 5,653 | 0 | 1 | 0 |
| 13 | 2001 | 99 | 0 | 47 | 5,752 | 0 | 48 | 0 |
| 14 | 2002 | 94 | 0 | 111 | 5,846 | 0 | 159 | 0 |
| 15 | 2003 | 94 | 0 | 111 | 5,939 | 0 | 270 | 0 |
| 16 | 2004 | 79 | 0 | 94 | 6,019 | 0 | 364 | 0 |
| 17 | 2005 | 68 | 0 | 80 | 6,086 | 0 | 444 | 0 |
| 18 | 2006 | 57 | 0 | 68 | 6,144 | 0 | 512 | 0 |
| 19 | 2007 | 49 | 0 | 58 | 6,192 | 0 | 569 | 0 |
| 20 | 2008 | 41 | 0 | 49 | 6,234 | 0 | 618 | 0 |
| 21 | 2009 | 35 | 0 | 42 | 6,269 | 0 | 660 | 0 |
| 22 | 2010 | 30 | 0 | 35 | 6,299 | 0 | 695 | 0 |
| 23 | 2011 | 25 | 0 | 30 | 6,325 | 0 | 726 | 0 |
| 24 | 2012 | 22 | 0 | 26 | 6,346 | 0 | 751 | 0 |
| 25 | 2013 | 18 | 0 | 22 | 6,365 | 0 | 773 | 0 |
| 26 | 2014 | 16 | 0 | 18 | 6,380 | 0 | 791 | 0 |
| 27 | 2015 | 13 | 0 | 16 | 6,394 | 0 | 807 | 0 |
| 28 | 2016 | 11 | 0 | 13 | 6,405 | 0 | 820 | 0 |
| 29 | 2017 | 10 | 0 | 11 | 6,415 | 0 | 832 | 0 |

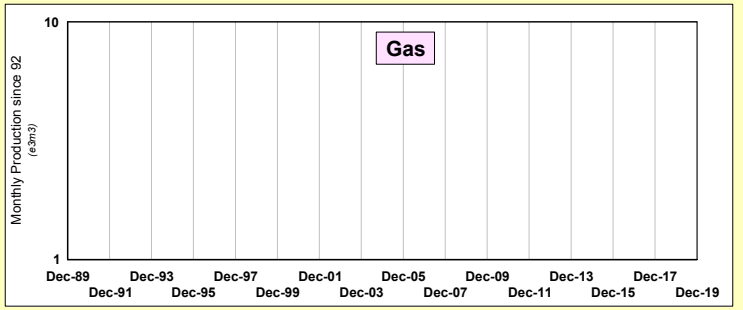
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

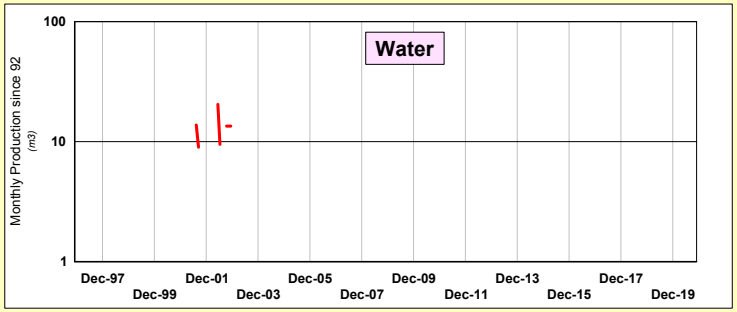
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 8.5 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T007421**

Well Name: **Cons et al 34352, Romney 2 - 15 - III**

Status: **Active Well**

MNR Pool: **Romney 6-13-IV**

TGI Pool: **Renwick Pool**

TGI Field: **Renwick-Fargo Field**

Well: **T007421**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 113 | m3 per m3 | ERR | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 15.7398 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 139.6566 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 0 | m3/yr | 0 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 9,665 | m3 | 151 | e3m3 | 21,088 | m3 |
| Remaining Recoverable: | 0 | m3 | 0 | e3m3 | 0 | m3 |
| Total Recovery: | 9,665 | m3 | 151 | e3m3 | 21,088 | m3 |
| Peak Rate: | 13.6 | m3/d | 0.4 | e3m3/d | based on annual | |
| Peak Rate: | 7.8 | m3/d | 0.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 7.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1989 | 4,967 | 0 | 0 | 4,967 | 0 | 0 | 0 |
| 2 | 1990 | 2,706 | 0 | 0 | 7,673 | 0 | 0 | 0 |
| 3 | 1991 | 652 | 0 | 0 | 8,325 | 0 | 0 | 0 |
| 4 | 1992 | 1,331 | 150 | 18,335 | 9,656 | 150 | 18,335 | 112 |
| 5 | 1993 | 9 | 1 | 2,753 | 9,665 | 151 | 21,088 | 144 |
| 5 | 1994 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 1995 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 1996 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 1997 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 1998 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 1999 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2000 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2001 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2002 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2003 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2004 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2005 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2006 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2007 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2008 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2009 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2010 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2011 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2012 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2013 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2014 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2015 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2016 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |
| 5 | 2017 | 0 | 0 | 0 | 9,665 | 151 | 21,088 | ERR |

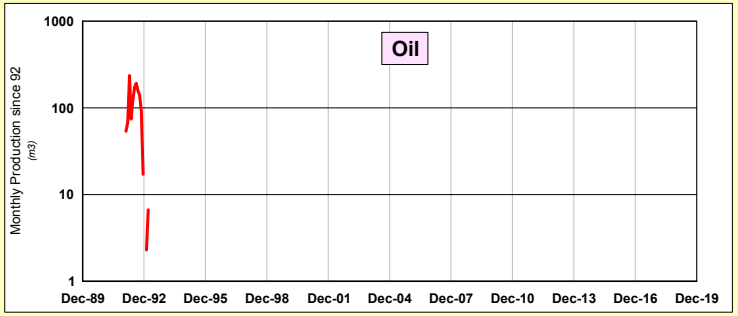
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

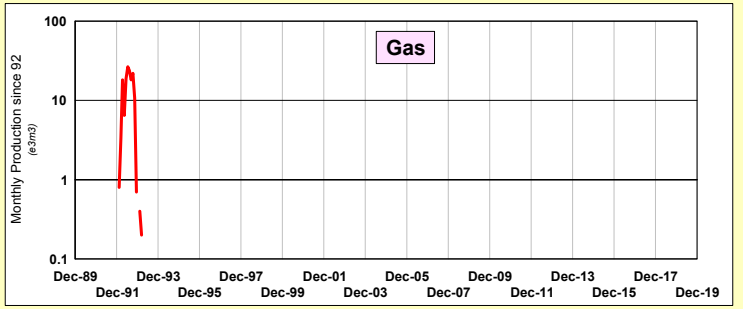
Revised May 27th 2004

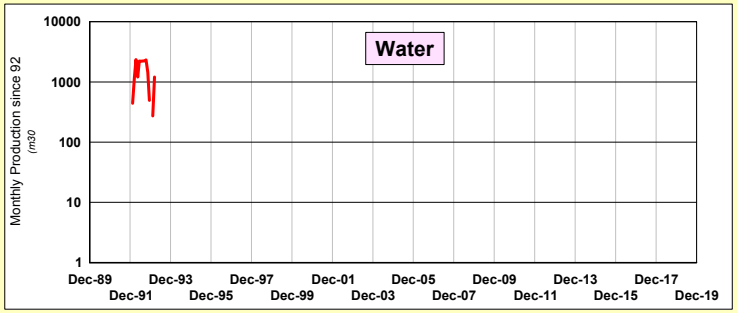
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | 0.0237 | per month | Decline Factor: | 0.0237 | per month |



Well No.: **T007942**

Well Name: **PPC et al # 3, Rochester 3 - 17 - IIEBR**

Status: **Active Well**

MNR Pool: **Rochester 1-17-II EBR**

TGI Pool: **Rochester 1-17-II EBR Pool**

TGI Field: **Rochester Field**

Well: **T007942**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 153 | m3 per m3 | 475 | last year |
| 2002 Water/Oil ratio: | 0.8972 | m3 per m3 | 0.2120 | last 10 years |
| 2002 Water/ Gas Ratio: | 1.8894 | m3 per e3m3 | 1.3820 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **862** | m3/yr | **409** | e3m3/yr | **774** | m3/yr |
| Cumm to Date: | **39,692** | m3 | **6,088** | e3m3 | **8,413** | m3 |
| Remaining Recoverable: | **2,359** | m3 | **1,120** | e3m3 | **2,116** | m3 |
| Total Recovery: | **42,051** | m3 | **7,208** | e3m3 | **10,529** | m3 |
| Peak Rate: | 31.0 | m3/d | 3.0 | e3m3/d | based on annual | |
| Peak Rate: | 67.2 | m3/d | 7.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 29.7 | m3/d | 2.8 | e3m3/d | per day based on annual | |
| Current Rate: | 2.4 | m3/d | 1.1 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

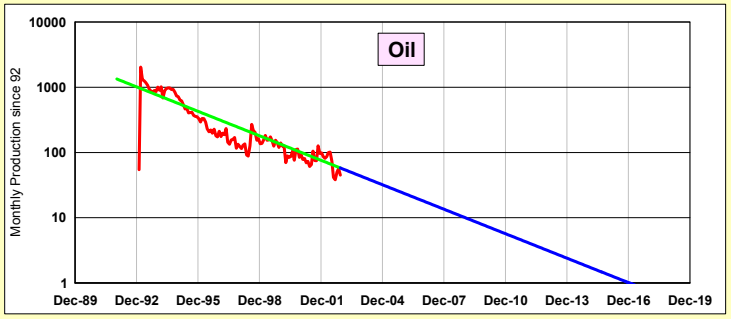
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 11,339 | 0 | 663 | 11,339 | 0 | 663 | 0 |
| 2 | 1994 | 10,847 | 1,011 | 1,791 | 22,185 | 1,011 | 2,454 | 93 |
| 3 | 1995 | 5,773 | 1,083 | 1,263 | 27,958 | 2,094 | 3,717 | 188 |
| 4 | 1996 | 3,025 | 573 | 766 | 30,983 | 2,666 | 4,483 | 189 |
| 5 | 1997 | 2,022 | 401 | 557 | 33,006 | 3,067 | 5,040 | 198 |
| 6 | 1998 | 1,822 | 589 | 570 | 34,827 | 3,656 | 5,610 | 323 |
| 7 | 1999 | 1,789 | 774 | 895 | 36,616 | 4,430 | 6,504 | 433 |
| 8 | 2000 | 1,213 | 650 | 481 | 37,829 | 5,080 | 6,986 | 536 |
| 9 | 2001 | 1,002 | 598 | 654 | 38,830 | 5,678 | 7,640 | 597 |
| 10 | 2002 | 862 | 409 | 774 | 39,692 | 6,088 | 8,413 | 475 |
| 11 | 2003 | 598 | 284 | 536 | 40,290 | 6,372 | 8,949 | 475 |
| 12 | 2004 | 448 | 213 | 402 | 40,738 | 6,585 | 9,351 | 475 |
| 13 | 2005 | 336 | 160 | 302 | 41,074 | 6,744 | 9,653 | 475 |
| 14 | 2006 | 252 | 120 | 226 | 41,326 | 6,864 | 9,879 | 475 |
| 15 | 2007 | 189 | 90 | 170 | 41,516 | 6,954 | 10,049 | 475 |
| 16 | 2008 | 142 | 67 | 127 | 41,657 | 7,021 | 10,176 | 475 |
| 17 | 2009 | 106 | 51 | 95 | 41,764 | 7,072 | 10,272 | 475 |
| 18 | 2010 | 80 | 38 | 72 | 41,844 | 7,110 | 10,343 | 475 |
| 19 | 2011 | 60 | 28 | 54 | 41,903 | 7,138 | 10,397 | 475 |
| 20 | 2012 | 45 | 21 | 40 | 41,948 | 7,159 | 10,437 | 475 |
| 21 | 2013 | 34 | 16 | 30 | 41,982 | 7,175 | 10,467 | 475 |
| 22 | 2014 | 25 | 12 | 23 | 42,007 | 7,187 | 10,490 | 475 |
| 23 | 2015 | 19 | 9 | 17 | 42,026 | 7,196 | 10,507 | 475 |
| 24 | 2016 | 14 | 7 | 13 | 42,040 | 7,203 | 10,520 | 475 |
| 25 | 2017 | 11 | 5 | 10 | 42,051 | 7,208 | 10,529 | 475 |

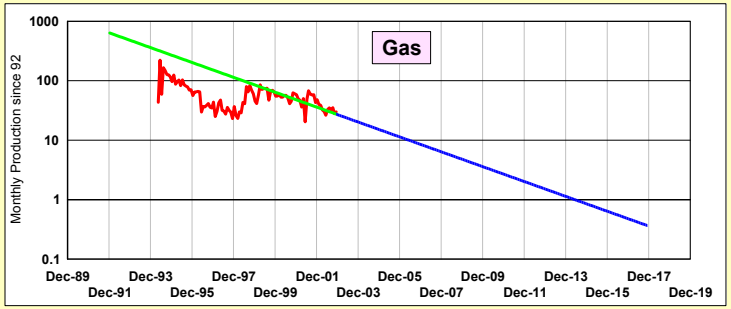
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

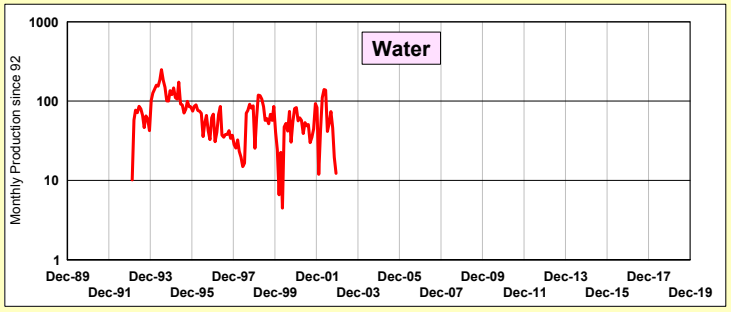
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 475 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 58 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T007891**

Well Name: **PPC et al No. 1, Rochester 1 - 17 - IIEBR**

Status: **Active Well**

MNR Pool: **Rochester 1-17-II EBR**

TGI Pool: **Rochester 1-17-II EBR Pool**

TGI Field: **Rochester Field**

Well: **T007891**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 119 | m3 per m3 | 783 | last year | |
| 2002 Water/Oil ratio: | 1.4593 | m3 per m3 | 0.4402 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.8637 | m3 per e3m3 | 3.7003 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **646** | m3/yr | **506** | e3m3/yr | **942** | m3/yr |
| Cumm to Date: | **39,351** | m3 | **4,681** | e3m3 | **17,323** | m3 |
| Remaining Recoverable: | **2,033** | m3 | **1,627** | e3m3 | **2,967** | m3 |
| Total Recovery: | **41,384** | m3 | **6,308** | e3m3 | **20,290** | m3 |
| Peak Rate: | 26.9 | m3/d | 2.8 | e3m3/d | based on annual | |
| Peak Rate: | 87.7 | m3/d | 7.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 26.9 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 1.8 | m3/d | 1.4 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

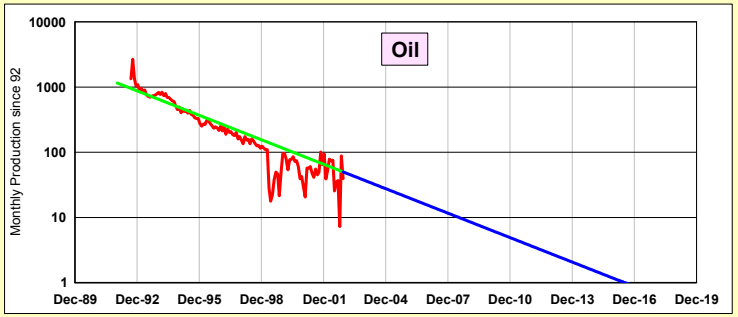
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1992 | 6,371 | 0 | 3,399 | 6,371 | 0 | 3,399 | 0 |
| 2 | 1993 | 9,838 | 0 | 3,614 | 16,209 | 0 | 7,013 | 0 |
| 3 | 1994 | 8,186 | 1,033 | 2,686 | 24,395 | 1,033 | 9,699 | 126 |
| 4 | 1995 | 4,780 | 872 | 1,760 | 29,175 | 1,905 | 11,460 | 182 |
| 5 | 1996 | 3,145 | 510 | 1,295 | 32,320 | 2,415 | 12,754 | 162 |
| 6 | 1997 | 2,443 | 415 | 797 | 34,763 | 2,829 | 13,551 | 170 |
| 7 | 1998 | 1,727 | 405 | 673 | 36,490 | 3,234 | 14,224 | 234 |
| 8 | 1999 | 733 | 189 | 374 | 37,223 | 3,423 | 14,598 | 258 |
| 9 | 2000 | 854 | 289 | 689 | 38,076 | 3,713 | 15,287 | 339 |
| 10 | 2001 | 629 | 463 | 1,094 | 38,706 | 4,176 | 16,381 | 736 |
| 11 | 2002 | 646 | 506 | 942 | 39,351 | 4,681 | 17,323 | 783 |
| 12 | 2003 | 515 | 412 | 752 | 39,866 | 5,094 | 18,075 | 800 |
| 13 | 2004 | 386 | 309 | 564 | 40,253 | 5,403 | 18,639 | 800 |
| 14 | 2005 | 290 | 232 | 423 | 40,543 | 5,634 | 19,061 | 800 |
| 15 | 2006 | 217 | 174 | 317 | 40,760 | 5,808 | 19,379 | 800 |
| 16 | 2007 | 163 | 130 | 238 | 40,923 | 5,939 | 19,616 | 800 |
| 17 | 2008 | 122 | 98 | 178 | 41,045 | 6,037 | 19,795 | 800 |
| 18 | 2009 | 92 | 73 | 134 | 41,137 | 6,110 | 19,929 | 800 |
| 19 | 2010 | 69 | 55 | 100 | 41,206 | 6,165 | 20,029 | 800 |
| 20 | 2011 | 52 | 41 | 75 | 41,257 | 6,206 | 20,104 | 800 |
| 21 | 2012 | 39 | 31 | 56 | 41,296 | 6,237 | 20,161 | 800 |
| 22 | 2013 | 29 | 23 | 42 | 41,325 | 6,260 | 20,203 | 800 |
| 23 | 2014 | 22 | 17 | 32 | 41,347 | 6,278 | 20,235 | 800 |
| 24 | 2015 | 16 | 13 | 24 | 41,363 | 6,291 | 20,259 | 800 |
| 25 | 2016 | 12 | 10 | 18 | 41,375 | 6,301 | 20,277 | 800 |
| 26 | 2017 | 9 | 7 | 13 | 41,384 | 6,308 | 20,290 | 800 |

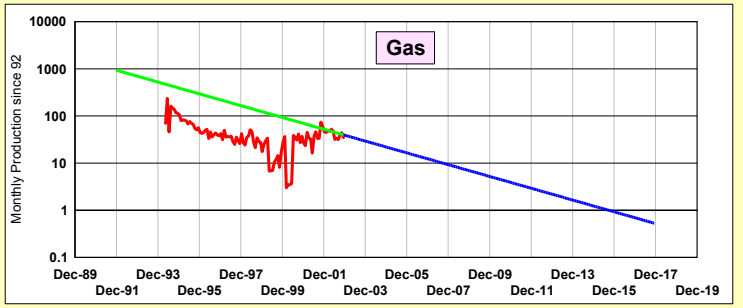
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

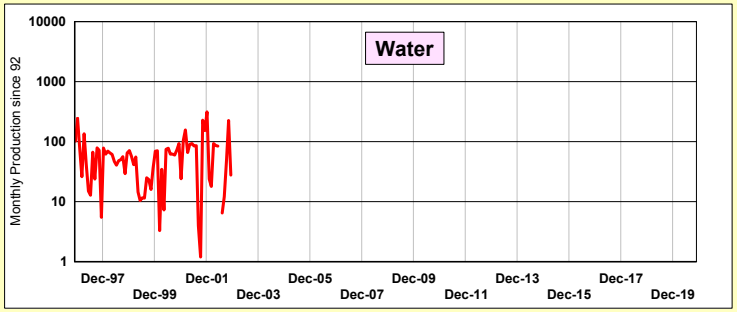
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 800 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 50 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T010442**

Well Name: **TLM No.1 (Horiz.#1), Rochester 4 - 12 - IEBR**

Status: **Active Well**

MNR Pool: **Rochester 1-17-II EBR**

TGI Pool: **Rochester 1-17-II EBR Pool**

TGI Field: **Rochester Field**

Well: **T010442**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 361 | m3 per m3 | 361 | last year |
| 2002 Water/Oil ratio: | 0.5466 | m3 per m3 | 0.5466 | last 10 years |
| 2002 Water/ Gas Ratio: | 1.5147 | m3 per e3m3 | 1.5147 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **283** | m3/yr | **102** | e3m3/yr | **155** | m3/yr |
| Cumm to Date: | **283** | m3 | **102** | e3m3 | **155** | m3 |
| Remaining Recoverable: | **690** | m3 | **248** | e3m3 | **377** | m3 |
| Total Recovery: | **973** | m3 | **350** | e3m3 | **532** | m3 |
| Peak Rate: | 0.8 | m3/d | 0.3 | e3m3/d | based on annual | |
| Peak Rate: | 1.9 | m3/d | 0.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.8 | m3/d | 0.3 | e3m3/d | per day based on annual | |
| Current Rate: | 0.8 | m3/d | 0.3 | e3m3/d | | |
| Current decline rate: | 40% | | annually | | | |

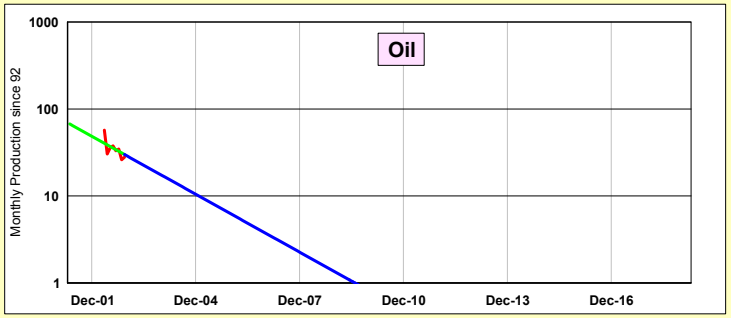
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2001 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2002 | 283 | 102 | 155 | 283 | 102 | 155 | 361 |
| 2 | 2003 | 276 | 99 | 151 | 559 | 202 | 306 | 360 |
| 3 | 2004 | 166 | 60 | 90 | 725 | 261 | 396 | 360 |
| 4 | 2005 | 99 | 36 | 54 | 824 | 297 | 450 | 360 |
| 5 | 2006 | 60 | 21 | 33 | 884 | 318 | 483 | 360 |
| 6 | 2007 | 36 | 13 | 20 | 919 | 331 | 503 | 360 |
| 7 | 2008 | 21 | 8 | 12 | 941 | 339 | 514 | 360 |
| 8 | 2009 | 13 | 5 | 7 | 954 | 344 | 521 | 360 |
| 9 | 2010 | 8 | 3 | 4 | 961 | 346 | 526 | 360 |
| 10 | 2011 | 5 | 2 | 3 | 966 | 348 | 528 | 360 |
| 11 | 2012 | 3 | 1 | 2 | 969 | 349 | 530 | 360 |
| 12 | 2013 | 2 | 1 | 1 | 971 | 350 | 531 | 360 |
| 13 | 2014 | 1 | 0 | 1 | 972 | 350 | 531 | 360 |
| 14 | 2015 | 1 | 0 | 0 | 972 | 350 | 531 | 360 |
| 15 | 2016 | 0 | 0 | 0 | 973 | 350 | 532 | 360 |
| 16 | 2017 | 0 | 0 | 0 | 973 | 350 | 532 | 360 |

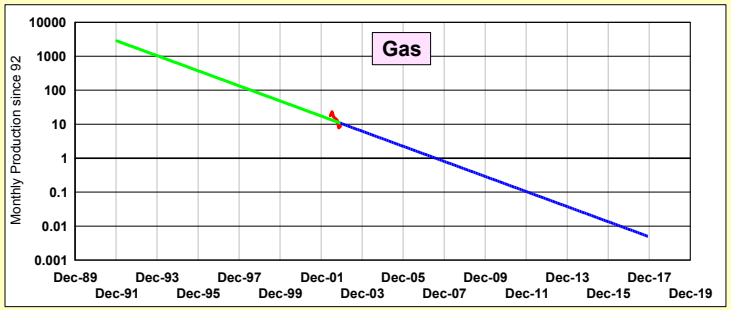
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

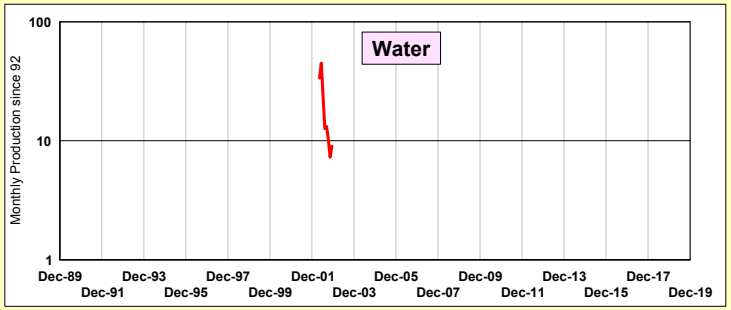
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 360 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 30 | m3/mo. |
| Decline Rate: | 40% | per year | Decline Rate: | 40% | per year |
| Decline Factor: | **0.0417** | per month | Decline Factor: | **0.0417** | per month |



Well No.: **T008810**

Well Name: **Paragon Talisman Byrnedale (Dev. # 1), Rochester 2 - 18**

Status: **Active Well**

MNR Pool: **Rochester 1-17-II EBR**

TGI Pool: **Rochester 1-17-II EBR Pool**

TGI Field: **Rochester Field**

Well: **T008810**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.6226 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 3802.0000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **72** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **1,221** | m3 | **0** | e3m3 | **760** | m3 |
| Remaining Recoverable: | **138** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **1,359** | m3 | **0** | e3m3 | **760** | m3 |
| Peak Rate: | 1.3 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 5.0 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.2 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.2 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 40% | | annually | | | |

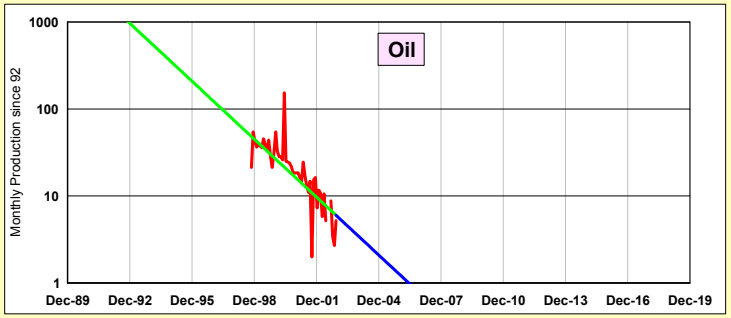
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1998 | 76 | 0 | 12 | 76 | 0 | 12 | 0 |
| 2 | 1999 | 436 | 0 | 21 | 512 | 0 | 33 | 0 |
| 3 | 2000 | 457 | 0 | 728 | 968 | 0 | 760 | 0 |
| 4 | 2001 | 181 | 0 | 0 | 1,150 | 0 | 760 | 0 |
| 5 | 2002 | 72 | 0 | 0 | 1,221 | 0 | 760 | 0 |
| 6 | 2003 | 55 | 0 | 0 | 1,276 | 0 | 760 | 0 |
| 7 | 2004 | 33 | 0 | 0 | 1,310 | 0 | 760 | 0 |
| 8 | 2005 | 20 | 0 | 0 | 1,329 | 0 | 760 | 0 |
| 9 | 2006 | 12 | 0 | 0 | 1,341 | 0 | 760 | 0 |
| 10 | 2007 | 7 | 0 | 0 | 1,349 | 0 | 760 | 0 |
| 11 | 2008 | 4 | 0 | 0 | 1,353 | 0 | 760 | 0 |
| 12 | 2009 | 3 | 0 | 0 | 1,355 | 0 | 760 | 0 |
| 13 | 2010 | 2 | 0 | 0 | 1,357 | 0 | 760 | 0 |
| 14 | 2011 | 1 | 0 | 0 | 1,358 | 0 | 760 | 0 |
| 15 | 2012 | 1 | 0 | 0 | 1,358 | 0 | 760 | 0 |
| 16 | 2013 | 0 | 0 | 0 | 1,359 | 0 | 760 | 0 |
| 17 | 2014 | 0 | 0 | 0 | 1,359 | 0 | 760 | 0 |
| 18 | 2015 | 0 | 0 | 0 | 1,359 | 0 | 760 | 0 |
| 19 | 2016 | 0 | 0 | 0 | 1,359 | 0 | 760 | 0 |
| 20 | 2017 | 0 | 0 | 0 | 1,359 | 0 | 760 | 0 |

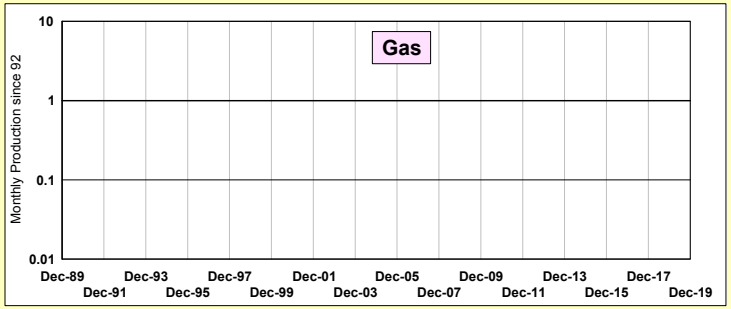
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

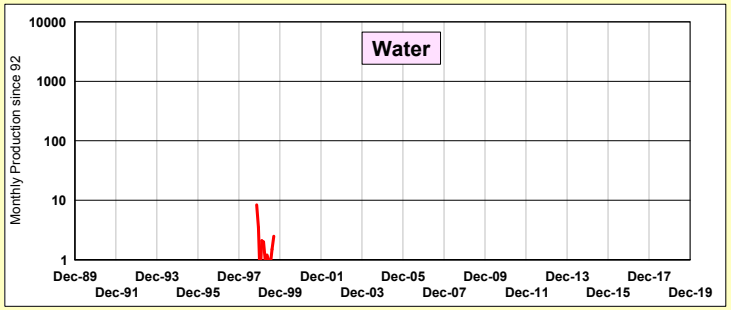
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 6 | m3/mo. |
| Decline Rate: | 40% | per year | Decline Rate: | 40% | per year |
| Decline Factor: | **0.0417** | per month | Decline Factor: | **0.0417** | per month |



Well No.: **T008235**

Well Name: **Paragon et al # 6 H, Rochester 2 - 12 - IEBR**

Status: **Active Well**

MNR Pool: **Rochester 1-17-II EBR**

TGI Pool: **Rochester 1-17-II EBR Pool**

TGI Field: **Rochester Field**

Well: **T008235**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 200 | m3 per m3 | 410 | last year | |
| 2002 Water/Oil ratio: | 0.6765 | m3 per m3 | 0.3467 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.6497 | m3 per e3m3 | 1.7349 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,902** | m3/yr | **780** | e3m3/yr | **1,287** | m3/yr |
| Cumm to Date: | **30,557** | m3 | **6,107** | e3m3 | **10,595** | m3 |
| Remaining Recoverable: | **4,618** | m3 | **1,847** | e3m3 | **3,124** | m3 |
| Total Recovery: | **35,175** | m3 | **7,954** | e3m3 | **13,720** | m3 |
| Peak Rate: | 26.7 | m3/d | 3.4 | e3m3/d | based on annual | |
| Peak Rate: | 51.3 | m3/d | 6.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 17.8 | m3/d | 3.4 | e3m3/d | per day based on annual | |
| Current Rate: | 5.2 | m3/d | 2.1 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

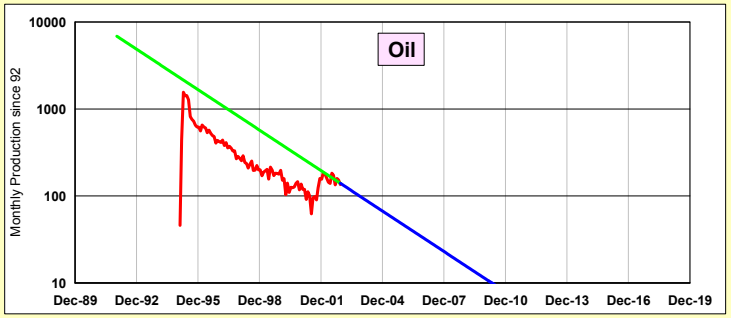
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1995 | 9,759 | 1,115 | 3,382 | 9,759 | 1,115 | 3,382 | 114 |
| 2 | 1996 | 6,515 | 1,253 | 2,229 | 16,274 | 2,368 | 5,611 | 192 |
| 3 | 1997 | 4,369 | 825 | 927 | 20,644 | 3,193 | 6,538 | 189 |
| 4 | 1998 | 2,811 | 730 | 727 | 23,454 | 3,923 | 7,265 | 260 |
| 5 | 1999 | 2,243 | 527 | 689 | 25,698 | 4,450 | 7,953 | 235 |
| 6 | 2000 | 1,646 | 359 | 651 | 27,344 | 4,809 | 8,604 | 218 |
| 7 | 2001 | 1,311 | 518 | 704 | 28,655 | 5,327 | 9,308 | 395 |
| 8 | 2002 | 1,902 | 780 | 1,287 | 30,557 | 6,107 | 10,595 | 410 |
| 9 | 2003 | 1,392 | 557 | 942 | 31,949 | 6,664 | 11,537 | 400 |
| 10 | 2004 | 975 | 390 | 659 | 32,923 | 7,054 | 12,196 | 400 |
| 11 | 2005 | 682 | 273 | 461 | 33,605 | 7,327 | 12,658 | 400 |
| 12 | 2006 | 478 | 191 | 323 | 34,083 | 7,518 | 12,981 | 400 |
| 13 | 2007 | 334 | 134 | 226 | 34,417 | 7,651 | 13,207 | 400 |
| 14 | 2008 | 234 | 94 | 158 | 34,651 | 7,745 | 13,365 | 400 |
| 15 | 2009 | 164 | 66 | 111 | 34,815 | 7,810 | 13,476 | 400 |
| 16 | 2010 | 115 | 46 | 78 | 34,930 | 7,856 | 13,554 | 400 |
| 17 | 2011 | 80 | 32 | 54 | 35,010 | 7,888 | 13,608 | 400 |
| 18 | 2012 | 56 | 22 | 38 | 35,066 | 7,911 | 13,646 | 400 |
| 19 | 2013 | 39 | 16 | 27 | 35,105 | 7,927 | 13,673 | 400 |
| 20 | 2014 | 28 | 11 | 19 | 35,133 | 7,938 | 13,691 | 400 |
| 21 | 2015 | 19 | 8 | 13 | 35,152 | 7,945 | 13,704 | 400 |
| 22 | 2016 | 13 | 5 | 9 | 35,166 | 7,951 | 13,713 | 400 |
| 23 | 2017 | 9 | 4 | 6 | 35,175 | 7,954 | 13,720 | 400 |

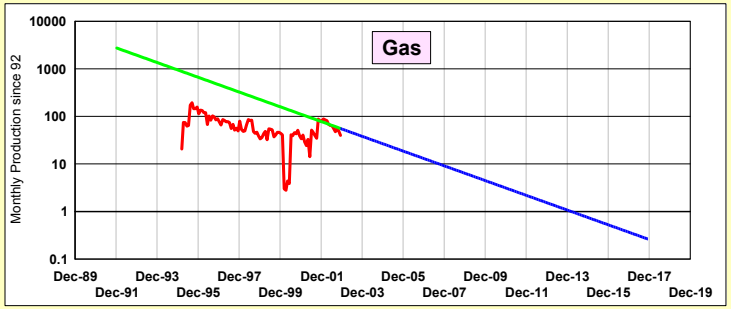
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

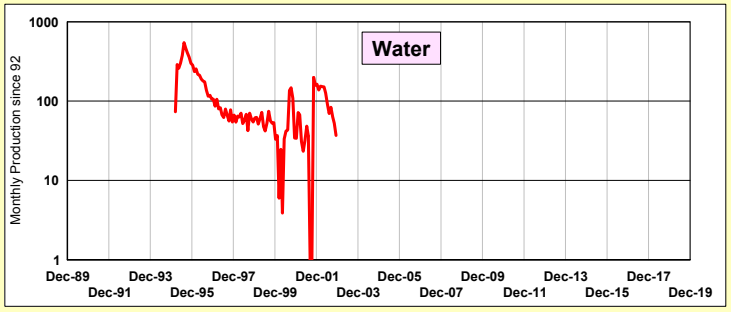
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 400 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 140 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | 0.0293 | per month | Decline Factor: | 0.0293 | per month |



Well No.: **T008073**

Well Name: **PPC Lakewood Horizontal #1, Rochester 6 - 17 - IIEBR**

Status: **Active Well**

MNR Pool: **Rochester 1-17-II EBR**

TGI Pool: **Rochester 1-17-II EBR Pool**

TGI Field: **Rochester Field**

Well: **T008073**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 203 | m3 per m3 | 334 | last year | |
| 2002 Water/Oil ratio: | 0.3956 | m3 per m3 | 0.2194 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.1828 | m3 per e3m3 | 1.0799 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **892** | m3/yr | **298** | e3m3/yr | **353** | m3/yr |
| Cumm to Date: | **44,007** | m3 | **8,941** | e3m3 | **9,656** | m3 |
| Remaining Recoverable: | **3,341** | m3 | **1,119** | e3m3 | **1,322** | m3 |
| Total Recovery: | **47,348** | m3 | **10,061** | e3m3 | **10,977** | m3 |
| Peak Rate: | 47.9 | m3/d | 5.7 | e3m3/d | based on annual | |
| Peak Rate: | 63.4 | m3/d | 9.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 47.9 | m3/d | 4.2 | e3m3/d | per day based on annual | |
| Current Rate: | 2.4 | m3/d | 0.8 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

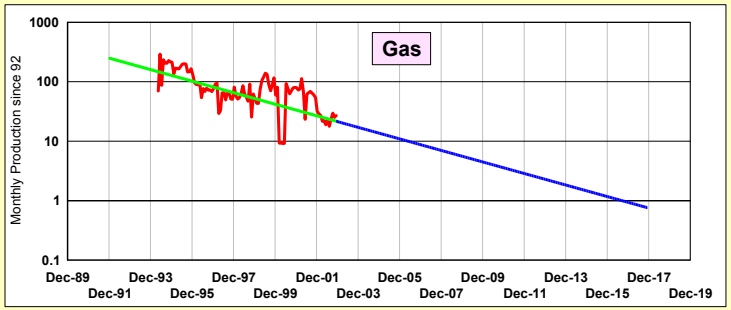
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 2,124 | 0 | 115 | 2,124 | 0 | 115 | 0 |
| 2 | 1994 | 17,495 | 1,541 | 785 | 19,619 | 1,541 | 899 | 88 |
| 3 | 1995 | 11,070 | 2,095 | 2,521 | 30,689 | 3,636 | 3,420 | 189 |
| 4 | 1996 | 4,154 | 996 | 1,124 | 34,842 | 4,632 | 4,544 | 240 |
| 5 | 1997 | 2,725 | 740 | 1,168 | 37,568 | 5,371 | 5,712 | 271 |
| 6 | 1998 | 1,656 | 739 | 563 | 39,223 | 6,110 | 6,275 | 446 |
| 7 | 1999 | 1,720 | 1,082 | 1,488 | 40,943 | 7,192 | 7,763 | 629 |
| 8 | 2000 | 1,194 | 641 | 916 | 42,137 | 7,833 | 8,679 | 537 |
| 9 | 2001 | 978 | 810 | 624 | 43,116 | 8,643 | 9,303 | 828 |
| 10 | 2002 | 892 | 298 | 353 | 44,007 | 8,941 | 9,656 | 334 |
| 11 | 2003 | 693 | 232 | 274 | 44,700 | 9,173 | 9,929 | 335 |
| 12 | 2004 | 554 | 186 | 219 | 45,254 | 9,359 | 10,149 | 335 |
| 13 | 2005 | 443 | 148 | 175 | 45,697 | 9,508 | 10,324 | 335 |
| 14 | 2006 | 355 | 119 | 140 | 46,052 | 9,626 | 10,464 | 335 |
| 15 | 2007 | 284 | 95 | 112 | 46,335 | 9,721 | 10,577 | 335 |
| 16 | 2008 | 227 | 76 | 90 | 46,562 | 9,797 | 10,666 | 335 |
| 17 | 2009 | 182 | 61 | 72 | 46,744 | 9,858 | 10,738 | 335 |
| 18 | 2010 | 145 | 49 | 57 | 46,889 | 9,907 | 10,796 | 335 |
| 19 | 2011 | 116 | 39 | 46 | 47,005 | 9,946 | 10,842 | 335 |
| 20 | 2012 | 93 | 31 | 37 | 47,098 | 9,977 | 10,878 | 335 |
| 21 | 2013 | 74 | 25 | 29 | 47,173 | 10,002 | 10,908 | 335 |
| 22 | 2014 | 59 | 20 | 24 | 47,232 | 10,022 | 10,931 | 335 |
| 23 | 2015 | 48 | 16 | 19 | 47,280 | 10,038 | 10,950 | 335 |
| 24 | 2016 | 38 | 13 | 15 | 47,318 | 10,051 | 10,965 | 335 |
| 25 | 2017 | 30 | 10 | 12 | 47,348 | 10,061 | 10,977 | 335 |

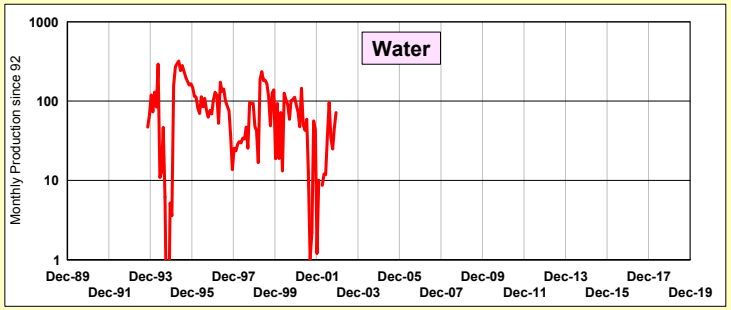
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 335 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 65 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007958**

Well Name: **PPC Rochester # 8, Rochester 1 - 12 - IEBR**

Status: **Active Well**

MNR Pool: **Rochester 1-17-II EBR**

TGI Pool: **Rochester 1-17-II EBR Pool**

TGI Field: **Rochester Field**

Well: **T007958**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 157 | m3 per m3 | 314 | last year | |
| 2002 Water/Oil ratio: | 0.4654 | m3 per m3 | 0.0902 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.4833 | m3 per e3m3 | 0.5751 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,316** | m3/yr | **413** | e3m3/yr | **612** | m3/yr |
| Cumm to Date: | **45,790** | m3 | **7,182** | e3m3 | **4,131** | m3 |
| Remaining Recoverable: | **5,140** | m3 | **1,542** | e3m3 | **2,392** | m3 |
| Total Recovery: | **50,930** | m3 | **8,724** | e3m3 | **6,523** | m3 |
| Peak Rate: | 28.5 | m3/d | 4.4 | e3m3/d | based on annual | |
| Peak Rate: | 46.2 | m3/d | 7.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 28.5 | m3/d | 2.7 | e3m3/d | per day based on annual | |
| Current Rate: | 3.6 | m3/d | 1.1 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

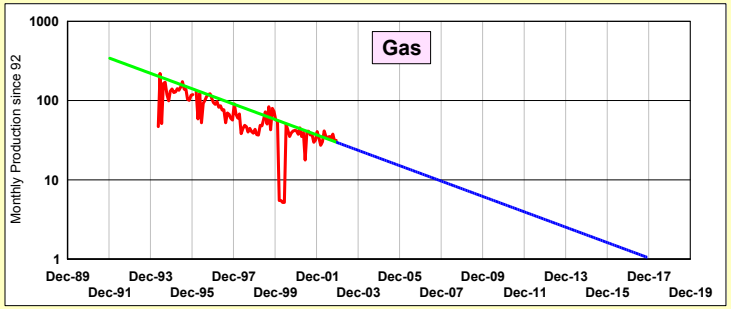
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 8,570 | 0 | 272 | 8,570 | 0 | 272 | 0 |
| 2 | 1994 | 10,426 | 1,004 | 845 | 18,996 | 1,004 | 1,117 | 96 |
| 3 | 1995 | 8,746 | 1,594 | 361 | 27,742 | 2,598 | 1,477 | 182 |
| 4 | 1996 | 5,349 | 1,137 | 429 | 33,091 | 3,735 | 1,906 | 213 |
| 5 | 1997 | 4,210 | 909 | 531 | 37,301 | 4,644 | 2,436 | 216 |
| 6 | 1998 | 2,530 | 630 | 459 | 39,832 | 5,274 | 2,895 | 249 |
| 7 | 1999 | 2,131 | 676 | 351 | 41,962 | 5,950 | 3,246 | 317 |
| 8 | 2000 | 1,411 | 384 | 126 | 43,374 | 6,334 | 3,372 | 272 |
| 9 | 2001 | 1,101 | 436 | 146 | 44,474 | 6,770 | 3,519 | 396 |
| 10 | 2002 | 1,316 | 413 | 612 | 45,790 | 7,182 | 4,131 | 314 |
| 11 | 2003 | 1,066 | 320 | 496 | 46,855 | 7,502 | 4,627 | 300 |
| 12 | 2004 | 852 | 256 | 397 | 47,708 | 7,758 | 5,023 | 300 |
| 13 | 2005 | 682 | 205 | 317 | 48,390 | 7,962 | 5,341 | 300 |
| 14 | 2006 | 546 | 164 | 254 | 48,935 | 8,126 | 5,595 | 300 |
| 15 | 2007 | 436 | 131 | 203 | 49,372 | 8,257 | 5,798 | 300 |
| 16 | 2008 | 349 | 105 | 162 | 49,721 | 8,362 | 5,960 | 300 |
| 17 | 2009 | 279 | 84 | 130 | 50,000 | 8,445 | 6,090 | 300 |
| 18 | 2010 | 223 | 67 | 104 | 50,224 | 8,512 | 6,194 | 300 |
| 19 | 2011 | 179 | 54 | 83 | 50,403 | 8,566 | 6,277 | 300 |
| 20 | 2012 | 143 | 43 | 67 | 50,546 | 8,609 | 6,344 | 300 |
| 21 | 2013 | 114 | 34 | 53 | 50,660 | 8,643 | 6,397 | 300 |
| 22 | 2014 | 92 | 27 | 43 | 50,752 | 8,671 | 6,440 | 300 |
| 23 | 2015 | 73 | 22 | 34 | 50,825 | 8,693 | 6,474 | 300 |
| 24 | 2016 | 59 | 18 | 27 | 50,883 | 8,710 | 6,501 | 300 |
| 25 | 2017 | 47 | 14 | 22 | 50,930 | 8,724 | 6,523 | 300 |

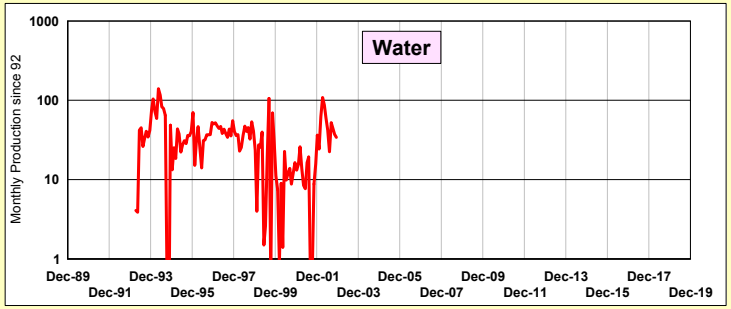
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 300 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 100 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007954**

Well Name: **PPC et al Rochester #4, Rochester 8 - 17 - IIIEBR**

Status: **Active Well**

MNR Pool: **Rochester 1-17-II EBR**

TGI Pool: **Rochester 1-17-II EBR Pool**

TGI Field: **Rochester Field**

Well: **T007954**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 230 | m3 per m3 | 1,269 | last year | |
| 2002 Water/Oil ratio: | 12.2742 | m3 per m3 | 2.6217 | last 10 years | |
| 2002 Water/ Gas Ratio: | 9.6752 | m3 per e3m3 | 11.3962 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **593** | m3/yr | **753** | e3m3/yr | **7,283** | m3/yr |
| Cumm to Date: | **20,832** | m3 | **4,792** | e3m3 | **54,615** | m3 |
| Remaining Recoverable: | **2,008** | m3 | **2,510** | e3m3 | **24,646** | m3 |
| Total Recovery: | **22,840** | m3 | **7,302** | e3m3 | **79,261** | m3 |
| Peak Rate: | 22.2 | m3/d | 2.2 | e3m3/d | based on annual | |
| Peak Rate: | 44.9 | m3/d | 6.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 22.2 | m3/d | 2.2 | e3m3/d | per day based on annual | |
| Current Rate: | 1.6 | m3/d | 2.1 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

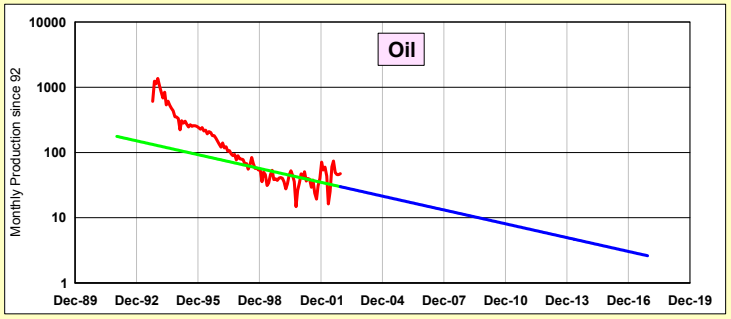
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 2,984 | 0 | 89 | 2,984 | 0 | 89 | 0 |
| 2 | 1994 | 8,093 | 818 | 4,675 | 11,076 | 818 | 4,764 | 101 |
| 3 | 1995 | 3,252 | 660 | 6,039 | 14,328 | 1,478 | 10,803 | 203 |
| 4 | 1996 | 2,429 | 548 | 6,144 | 16,758 | 2,026 | 16,947 | 226 |
| 5 | 1997 | 1,294 | 345 | 7,144 | 18,051 | 2,371 | 24,091 | 267 |
| 6 | 1998 | 813 | 394 | 6,701 | 18,864 | 2,765 | 30,792 | 484 |
| 7 | 1999 | 507 | 366 | 6,096 | 19,372 | 3,131 | 36,887 | 721 |
| 8 | 2000 | 432 | 599 | 5,194 | 19,804 | 3,730 | 42,081 | 1,387 |
| 9 | 2001 | 435 | 310 | 5,251 | 20,239 | 4,040 | 47,332 | 712 |
| 10 | 2002 | 593 | 753 | 7,283 | 20,832 | 4,792 | 54,615 | 1,269 |
| 11 | 2003 | 330 | 413 | 4,051 | 21,162 | 5,205 | 58,666 | 1,250 |
| 12 | 2004 | 281 | 351 | 3,443 | 21,443 | 5,556 | 62,109 | 1,250 |
| 13 | 2005 | 238 | 298 | 2,927 | 21,681 | 5,854 | 65,036 | 1,250 |
| 14 | 2006 | 203 | 253 | 2,488 | 21,884 | 6,107 | 67,524 | 1,250 |
| 15 | 2007 | 172 | 215 | 2,115 | 22,056 | 6,322 | 69,638 | 1,250 |
| 16 | 2008 | 146 | 183 | 1,797 | 22,202 | 6,505 | 71,435 | 1,250 |
| 17 | 2009 | 124 | 156 | 1,528 | 22,327 | 6,661 | 72,963 | 1,250 |
| 18 | 2010 | 106 | 132 | 1,299 | 22,433 | 6,793 | 74,262 | 1,250 |
| 19 | 2011 | 90 | 112 | 1,104 | 22,523 | 6,906 | 75,366 | 1,250 |
| 20 | 2012 | 76 | 96 | 938 | 22,599 | 7,001 | 76,304 | 1,250 |
| 21 | 2013 | 65 | 81 | 797 | 22,664 | 7,082 | 77,101 | 1,250 |
| 22 | 2014 | 55 | 69 | 678 | 22,719 | 7,151 | 77,779 | 1,250 |
| 23 | 2015 | 47 | 59 | 576 | 22,766 | 7,210 | 78,355 | 1,250 |
| 24 | 2016 | 40 | 50 | 490 | 22,806 | 7,260 | 78,845 | 1,250 |
| 25 | 2017 | 34 | 42 | 416 | 22,840 | 7,302 | 79,261 | 1,250 |

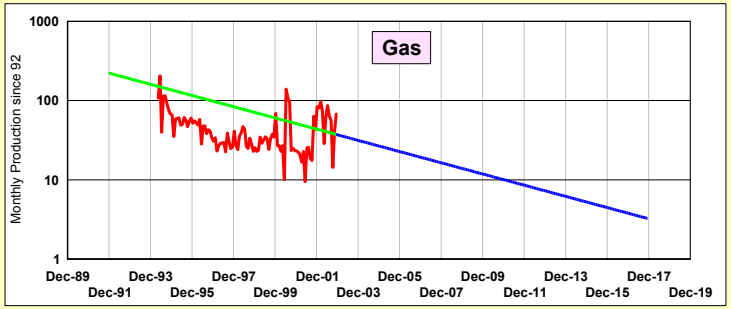
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

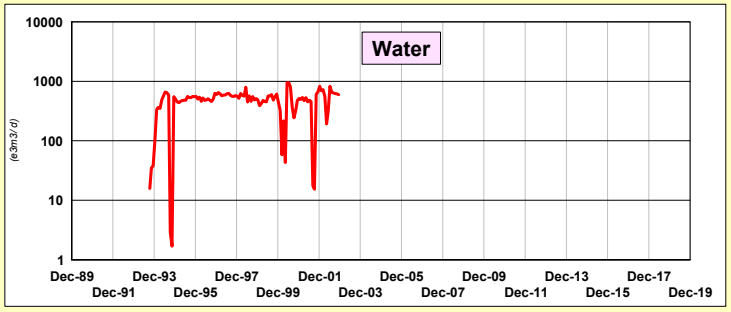
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 1250 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 30 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T007944**

Well Name: **PPC Rochester #2, Rochester 7 - 16 - IIEBR**

Status: **Active Well**

MNR Pool: **Rochester 1-17-II EBR**

TGI Pool: **Rochester 1-17-II EBR Pool**

TGI Field: **Rochester Field**

Well: **T007944**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 149 | m3 per m3 | 417 | last year |
| 2002 Water/Oil ratio: | 1.4453 | m3 per m3 | 0.5597 | last 10 years |
| 2002 Water/ Gas Ratio: | 3.4666 | m3 per e3m3 | 3.7501 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **518** | m3/yr | **216** | e3m3/yr | **748** | m3/yr |
| Cumm to Date: | **21,701** | m3 | **3,239** | e3m3 | **12,146** | m3 |
| Remaining Recoverable: | **3,347** | m3 | **1,004** | e3m3 | **4,837** | m3 |
| Total Recovery: | **25,048** | m3 | **4,243** | e3m3 | **16,983** | m3 |
| Peak Rate: | 18.0 | m3/d | 1.9 | e3m3/d | based on annual | |
| Peak Rate: | 31.6 | m3/d | 3.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 18.0 | m3/d | 1.6 | e3m3/d | per day based on annual | |
| Current Rate: | 1.4 | m3/d | 0.6 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 6,056 | 0 | 2,729 | 6,056 | 0 | 2,729 | 0 |
| 2 | 1994 | 6,587 | 589 | 1,534 | 12,642 | 589 | 4,263 | 89 |
| 3 | 1995 | 2,578 | 701 | 1,027 | 15,220 | 1,289 | 5,290 | 272 |
| 4 | 1996 | 1,512 | 358 | 583 | 16,732 | 1,647 | 5,874 | 237 |
| 5 | 1997 | 1,306 | 360 | 797 | 18,038 | 2,007 | 6,671 | 275 |
| 6 | 1998 | 1,044 | 410 | 1,256 | 19,082 | 2,417 | 7,926 | 392 |
| 7 | 1999 | 845 | 290 | 1,515 | 19,928 | 2,706 | 9,441 | 343 |
| 8 | 2000 | 634 | 130 | 1,040 | 20,562 | 2,836 | 10,481 | 205 |
| 9 | 2001 | 622 | 187 | 917 | 21,184 | 3,023 | 11,398 | 301 |
| 10 | 2002 | 518 | 216 | 748 | 21,701 | 3,239 | 12,146 | 417 |
| 11 | 2003 | 550 | 165 | 795 | 22,251 | 3,404 | 12,941 | 300 |
| 12 | 2004 | 468 | 140 | 676 | 22,719 | 3,544 | 13,617 | 300 |
| 13 | 2005 | 397 | 119 | 574 | 23,116 | 3,663 | 14,191 | 300 |
| 14 | 2006 | 338 | 101 | 488 | 23,454 | 3,765 | 14,679 | 300 |
| 15 | 2007 | 287 | 86 | 415 | 23,741 | 3,851 | 15,094 | 300 |
| 16 | 2008 | 244 | 73 | 353 | 23,985 | 3,924 | 15,447 | 300 |
| 17 | 2009 | 207 | 62 | 300 | 24,193 | 3,986 | 15,747 | 300 |
| 18 | 2010 | 176 | 53 | 255 | 24,369 | 4,039 | 16,002 | 300 |
| 19 | 2011 | 150 | 45 | 217 | 24,519 | 4,084 | 16,218 | 300 |
| 20 | 2012 | 127 | 38 | 184 | 24,646 | 4,122 | 16,403 | 300 |
| 21 | 2013 | 108 | 32 | 157 | 24,754 | 4,155 | 16,559 | 300 |
| 22 | 2014 | 92 | 28 | 133 | 24,847 | 4,183 | 16,692 | 300 |
| 23 | 2015 | 78 | 23 | 113 | 24,925 | 4,206 | 16,805 | 300 |
| 24 | 2016 | 67 | 20 | 96 | 24,991 | 4,226 | 16,901 | 300 |
| 25 | 2017 | 57 | 17 | 82 | 25,048 | 4,243 | 16,983 | 300 |

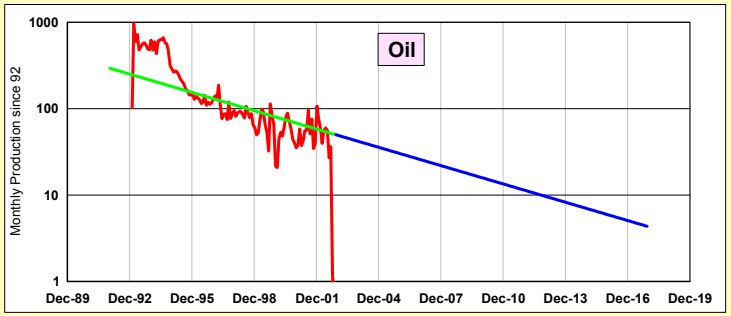
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

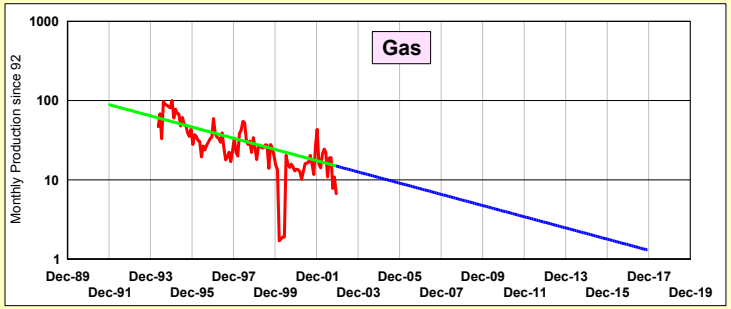
Revised May 27th 2004

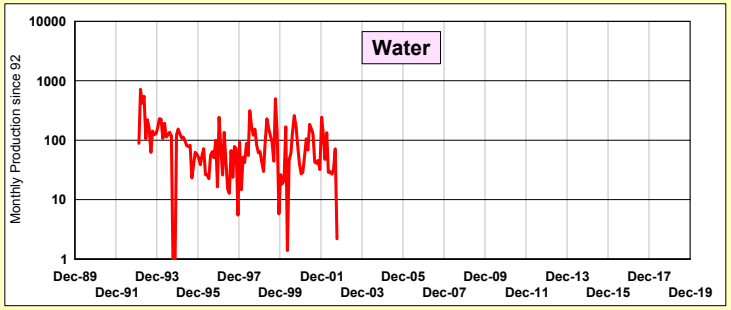
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 300 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 50 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



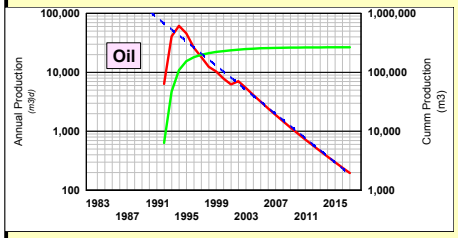
## Annual & Cumulative Production
*(since 1983)*

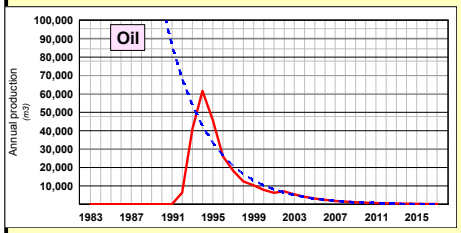
MNR Pool: **Rochester 1-17-II EBR**
TGI Pool: **Rochester 1-17-II EBR Pool**
TGI Field: **Rochester Field**
No of Wells: **9**

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 7,083 | m3/yr | 3,477 | e3m3/yr | 12,154 | m3/yr |
| Cumm to Date: | 243,435 | m3 | 41,134 | e3m3 | 117,794 | m3 |
| Remaining Recoverable: | 23,674 | m3 | 11,018 | e3m3 | 41,782 | m3 |
| Total Recovery: | 267,109 | m3 | 52,151 | e3m3 | 159,576 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 19 | m3/d | 10 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1992 | 6,371 | 0 | 3,399 | 6,371 | 0 | 3,399 | |
| 6 | 2 | 1993 | 40,910 | 0 | 7,483 | 47,281 | 0 | 10,881 | 0 |
| 6 | 3 | 1994 | 61,632 | 5,996 | 12,316 | 108,913 | 5,996 | 23,197 | 97 |
| 7 | 4 | 1995 | 45,959 | 8,119 | 16,353 | 154,872 | 14,115 | 39,550 | 177 |
| 7 | 5 | 1996 | 26,129 | 5,374 | 12,569 | 181,001 | 19,489 | 52,119 | 206 |
| 7 | 6 | 1997 | 18,369 | 3,994 | 11,920 | 199,370 | 23,483 | 64,039 | 217 |
| 8 | 7 | 1998 | 12,478 | 3,896 | 10,959 | 211,849 | 27,378 | 74,998 | 312 |
| 8 | 8 | 1999 | 10,404 | 3,904 | 11,428 | 222,253 | 31,282 | 86,426 | 375 |
| 8 | 9 | 2000 | 7,841 | 3,054 | 9,824 | 230,093 | 34,336 | 96,250 | 389 |
| 8 | 10 | 2001 | 6,259 | 3,321 | 9,390 | 236,352 | 37,657 | 105,640 | 531 |
| 9 | 11 | 2002 | 7,083 | 3,477 | 12,154 | 243,435 | 41,134 | 117,794 | 491 |
| | 12 | 2003 | 5,474 | 2,481 | 7,996 | 248,909 | 43,615 | 125,790 | 453 |
| | 13 | 2004 | 4,162 | 1,904 | 6,451 | 253,072 | 45,519 | 132,241 | 457 |
| | 14 | 2005 | 3,188 | 1,470 | 5,234 | 256,260 | 46,989 | 137,475 | 461 |
| | 15 | 2006 | 2,459 | 1,143 | 4,269 | 258,719 | 48,132 | 141,744 | 465 |
| | 16 | 2007 | 1,909 | 894 | 3,498 | 260,628 | 49,027 | 145,242 | 468 |
| | 17 | 2008 | 1,490 | 704 | 2,878 | 262,118 | 49,730 | 148,120 | 472 |
| | 18 | 2009 | 1,170 | 556 | 2,376 | 263,289 | 50,287 | 150,497 | 476 |
| | 19 | 2010 | 923 | 442 | 1,969 | 264,212 | 50,729 | 152,465 | 479 |
| | 20 | 2011 | 732 | 353 | 1,635 | 264,944 | 51,083 | 154,101 | 483 |
| | 21 | 2012 | 583 | 284 | 1,362 | 265,527 | 51,366 | 155,463 | 486 |
| | 22 | 2013 | 466 | 228 | 1,137 | 265,993 | 51,595 | 156,599 | 490 |
| | 23 | 2014 | 374 | 185 | 951 | 266,367 | 51,779 | 157,550 | 494 |
| | 24 | 2015 | 301 | 150 | 796 | 266,668 | 51,929 | 158,346 | 498 |
| | 25 | 2016 | 243 | 122 | 668 | 266,912 | 52,052 | 159,014 | 502 |
| | 26 | 2017 | 197 | 100 | 561 | 267,109 | 52,151 | 159,576 | 506 |
| | | To date: | 243,435 | 41,134 | 117,794 | | | | 0.1690 |

Revised May 27th 2004



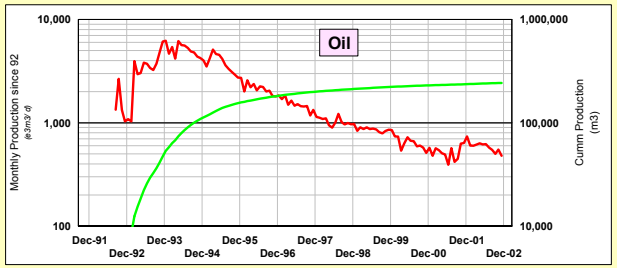



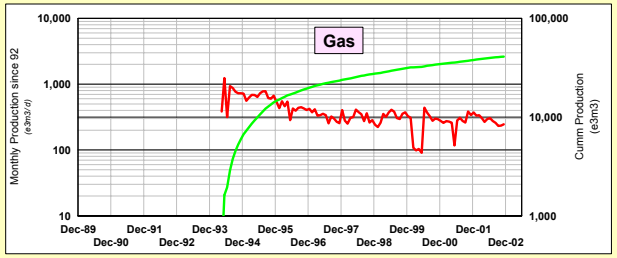

**21%** Pool Decline

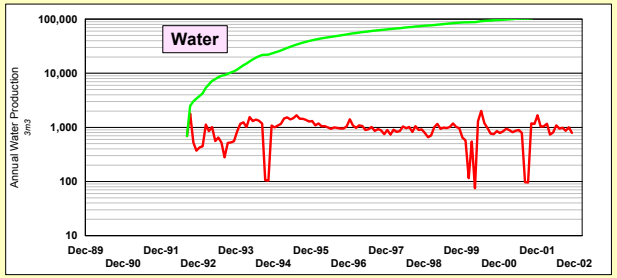
| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

## Monthly Production vs Month
*(1992 to 2002)*

42736



# Rochester 1-17-II EBR

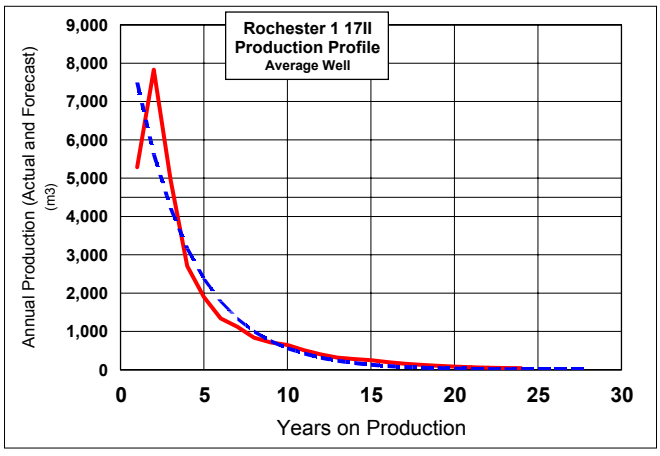
# Average Well

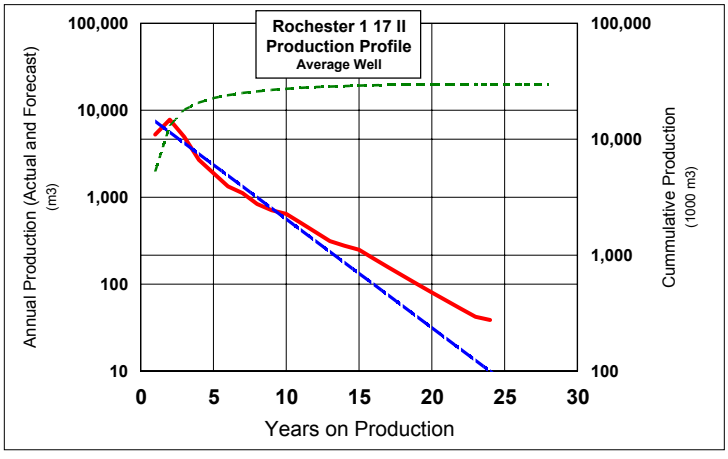
GOR: 475
WOR: 0.484

| Prod Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|
| 1 | 7,500 | 3,563 | 3,629 | 7,500 | 3,563 | 3,629 | 475 |
| 2 | 5,625 | 2,672 | 2,722 | 13,125 | 6,234 | 6,351 | 475 |
| 3 | 4,219 | 2,004 | 2,041 | 17,344 | 8,238 | 8,392 | 475 |
| 4 | 3,164 | 1,503 | 1,531 | 20,508 | 9,741 | 9,923 | 475 |
| 5 | 2,373 | 1,127 | 1,148 | 22,881 | 10,868 | 11,072 | 475 |
| 6 | 1,780 | 845 | 861 | 24,661 | 11,714 | 11,933 | 475 |
| 7 | 1,335 | 634 | 646 | 25,995 | 12,348 | 12,579 | 475 |
| 8 | 1,001 | 476 | 484 | 26,997 | 12,823 | 13,063 | 475 |
| 9 | 751 | 357 | 363 | 27,747 | 13,180 | 13,427 | 475 |
| 10 | 563 | 267 | 272 | 28,311 | 13,448 | 13,699 | 475 |
| 11 | 422 | 201 | 204 | 28,733 | 13,648 | 13,903 | 475 |
| 12 | 317 | 150 | 153 | 29,050 | 13,799 | 14,057 | 475 |
| 13 | 238 | 113 | 115 | 29,287 | 13,911 | 14,172 | 475 |
| 14 | 178 | 85 | 86 | 29,465 | 13,996 | 14,258 | 475 |
| 15 | 134 | 63 | 65 | 29,599 | 14,060 | 14,322 | 475 |
| 16 | 100 | 48 | 48 | 29,699 | 14,107 | 14,371 | 475 |
| 17 | 75 | 36 | 36 | 29,774 | 14,143 | 14,407 | 475 |
| 18 | 56 | 27 | 27 | 29,831 | 14,170 | 14,435 | 475 |
| 19 | 42 | 20 | 20 | 29,873 | 14,190 | 14,455 | 475 |
| 20 | 32 | 15 | 15 | 29,905 | 14,205 | 14,470 | 475 |
| 21 | 24 | 11 | 12 | 29,929 | 14,216 | 14,482 | 475 |
| 22 | 18 | 8 | 9 | 29,946 | 14,225 | 14,491 | 475 |
| 23 | 13 | 6 | 6 | 29,960 | 14,231 | 14,497 | 475 |
| 24 | 10 | 5 | 5 | 29,970 | 14,236 | 14,502 | 475 |
| 25 | 8 | 4 | 4 | 29,977 | 14,239 | 14,506 | 475 |
| 26 | 6 | 3 | 3 | 29,983 | 14,242 | 14,508 | 475 |
| 27 | 4 | 2 | 2 | 29,987 | 14,244 | 14,510 | 475 |
| 28 | 3 | 2 | 2 | 29,990 | 14,245 | 14,512 | 475 |
| 29 | 2 | 1 | 1 | 29,993 | 14,247 | 14,513 | 475 |
| 30 | 2 | 1 | 1 | 29,995 | 14,247 | 14,514 | 475 |
| 31 | 1 | 1 | 1 | 29,996 | 14,248 | 14,515 | 475 |
| 32 | 1 | 0 | 0 | 29,997 | 14,249 | 14,515 | 475 |
| | 29,997 | 14,249 | 14,515 | | | | |

| Average Well Oil | | |
|---|---|---|
| Start: | 7500 | m3 per year |
| Decline Rate | 25.0% | per year |
| Decline Facto | 0.0237 | per month |
| Recovery | 29,997 | m3 |

29,938
29,997




Revised May 27th 2004

Well No.: **T006447**

Well Name: **Revallee I, Rochester 1 - 20 - VEBR**

Status: **Active Well**

MNR Pool: **Rochester 1-20-V EBR**

TGI Pool: **Rochester 1-20-V EBR Pool**

TGI Field: **Rochester Field**

Well: **T006447**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | 0 | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0000 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **886** | m3 | **0** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **886** | m3 | **0** | e3m3 | **0** | m3 |
| Peak Rate: | 0.4 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 0.9 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1984 | 70 | 0 | 0 | 70 | 0 | 0 | |
| 2 | 1985 | 150 | 0 | 0 | 220 | 0 | 0 | |
| 3 | 1986 | 57 | 0 | 0 | 277 | 0 | 0 | |
| 4 | 1987 | 14 | 0 | 0 | 291 | 0 | 0 | |
| 5 | 1988 | 14 | 0 | 0 | 305 | 0 | 0 | |
| 5 | 1989 | 0 | 0 | 0 | 305 | 0 | 0 | |
| 6 | 1990 | 13 | 0 | 0 | 318 | 0 | 0 | |
| 7 | 1991 | 7 | 0 | 0 | 324 | 0 | 0 | |
| 8 | 1992 | 133 | 0 | 0 | 458 | 0 | 0 | |
| 9 | 1993 | 108 | 0 | 0 | 566 | 0 | 0 | |
| 10 | 1994 | 65 | 0 | 0 | 630 | 0 | 0 | |
| 11 | 1995 | 61 | 0 | 0 | 691 | 0 | 0 | |
| 12 | 1996 | 56 | 0 | 0 | 747 | 0 | 0 | |
| 13 | 1997 | 35 | 0 | 0 | 783 | 0 | 0 | |
| 14 | 1998 | 13 | 0 | 0 | 796 | 0 | 0 | |
| 15 | 1999 | 37 | 0 | 0 | 833 | 0 | 0 | |
| 16 | 2000 | 27 | 0 | 0 | 861 | 0 | 0 | |
| 17 | 2001 | 26 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2002 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2003 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2004 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2005 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2006 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2007 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2008 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2009 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2010 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2011 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2012 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2013 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2014 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2015 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2016 | 0 | 0 | 0 | 886 | 0 | 0 | |
| 17 | 2017 | 0 | 0 | 0 | 886 | 0 | 0 | |

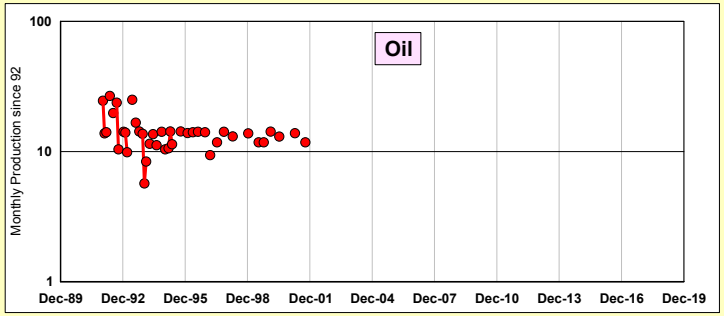
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

Revised May 27th 2004

## Monthly Production vs Month + Forecast
*(since 1992)*

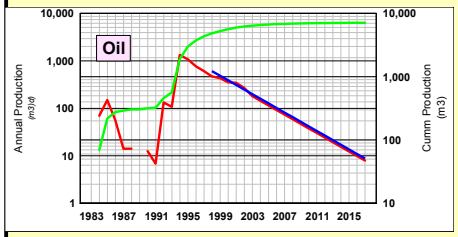
Basis---> **Oil**

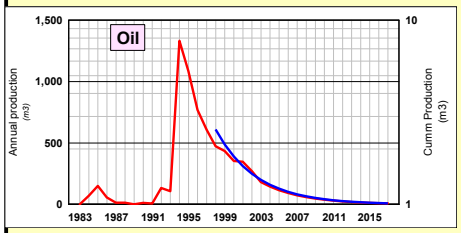
| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



## Annual & Cumulative Production
*(since 1983)*

520.021667
592.844024
0




**20%** Pool Decline

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

MNR Pool: **Rochester 1-20-V EBR**
TGI Pool: **Rochester 1-20-V EBR Pool**
TGI Field: **Rochester Field**
No of Wells: **2**

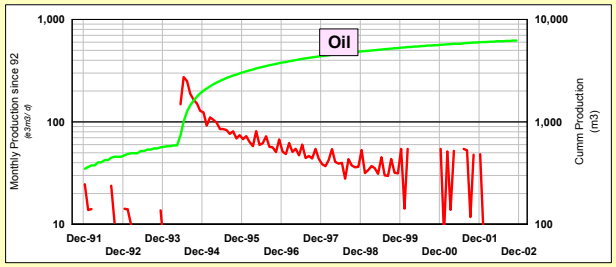
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 271 | m3/yr | 0 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 6,240 | m3 | 0 | e3m3 | 70 | m3 |
| Remaining Recoverable: | 874 | m3 | 0 | e3m3 | 0 | m3 |
| Total recovery: | 7,114 | m3 | 0 | e3m3 | 70 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 1 | m3/d | 0 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

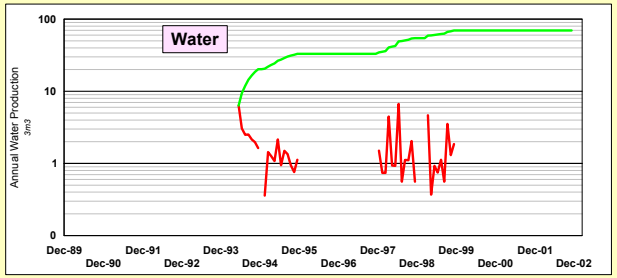
| | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | | 1984 | 70 | 0 | 0 | 70 | 0 | 0 | |
| 2 | | 1985 | 150 | 0 | 0 | 220 | 0 | 0 | |
| 3 | | 1986 | 57 | 0 | 0 | 277 | 0 | 0 | |
| 4 | | 1987 | 14 | 0 | 0 | 291 | 0 | 0 | |
| 5 | | 1988 | 14 | 0 | 0 | 305 | 0 | 0 | |
| 5 | | 1989 | 0 | 0 | 0 | 305 | 0 | 0 | |
| 6 | | 1990 | 13 | 0 | 0 | 318 | 0 | 0 | |
| 7 | | 1991 | 7 | 0 | 0 | 324 | 0 | 0 | |
| 8 | | 1992 | 133 | 0 | 0 | 458 | 0 | 0 | |
| 9 | | 1993 | 108 | 0 | 0 | 566 | 0 | 0 | 0 |
| 10 | | 1994 | 1,333 | 0 | 20 | 1,898 | 0 | 20 | 0 |
| 11 | | 1995 | 1,085 | 0 | 13 | 2,983 | 0 | 33 | 0 |
| 12 | | 1996 | 770 | 0 | 0 | 3,753 | 0 | 33 | 0 |
| 13 | | 1997 | 609 | 0 | 0 | 4,361 | 0 | 33 | 0 |
| 14 | | 1998 | 474 | 0 | 21 | 4,835 | 0 | 55 | 0 |
| 15 | | 1999 | 434 | 0 | 15 | 5,269 | 0 | 70 | 0 |
| 16 | | 2000 | 354 | 0 | 0 | 5,622 | 0 | 70 | 0 |
| 17 | | 2001 | 347 | 0 | 0 | 5,969 | 0 | 70 | 0 |
| 18 | | 2002 | 271 | 0 | 0 | 6,240 | 0 | 70 | 0 |
| 19 | | 2003 | 181 | 0 | 0 | 6,421 | 0 | 70 | 0 |
| 20 | | 2004 | 145 | 0 | 0 | 6,566 | 0 | 70 | 0 |
| 21 | | 2005 | 116 | 0 | 0 | 6,682 | 0 | 70 | 0 |
| 22 | | 2006 | 93 | 0 | 0 | 6,775 | 0 | 70 | 0 |
| 23 | | 2007 | 74 | 0 | 0 | 6,849 | 0 | 70 | 0 |
| 24 | | 2008 | 59 | 0 | 0 | 6,909 | 0 | 70 | 0 |
| 25 | | 2009 | 47 | 0 | 0 | 6,956 | 0 | 70 | 0 |
| 26 | | 2010 | 38 | 0 | 0 | 6,994 | 0 | 70 | 0 |
| 27 | | 2011 | 30 | 0 | 0 | 7,024 | 0 | 70 | 0 |
| 28 | | 2012 | 24 | 0 | 0 | 7,049 | 0 | 70 | 0 |
| 29 | | 2013 | 19 | 0 | 0 | 7,068 | 0 | 70 | 0 |
| 30 | | 2014 | 16 | 0 | 0 | 7,084 | 0 | 70 | 0 |
| 31 | | 2015 | 12 | 0 | 0 | 7,096 | 0 | 70 | 0 |
| 32 | | 2016 | 10 | 0 | 0 | 7,106 | 0 | 70 | 0 |
| 33 | | 2017 | 8 | 0 | 0 | 7,114 | 0 | 70 | 0 |
| | | To date: | 6,240 | 0 | 70 | | | | 0.0000 |

Revised May 27th 2004

## Monthly Production vs Month
*(1992 to 2002)*

42736



Well No.: **T008104**

Well Name: **SEC Exploration #4, Rochester 8 - 21 - VI**

Status: **Active Well**

MNR Pool: **Rochester 1-20-V EBR**

TGI Pool: **Rochester 1-20-V EBR Pool**

TGI Field: **Rochester Field**

Well: **T008104**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0130 | | last 10 years |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | ERR | | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 271 | m3/yr | 0 | e3m3/yr | 0 | m3/yr |
| Cumm to Date: | 5,354 | m3 | 0 | e3m3 | 70 | m3 |
| Remaining Recoverable: | 874 | m3 | 0 | e3m3 | 0 | m3 |
| Total Recovery: | 6,228 | m3 | 0 | e3m3 | 70 | m3 |
| Peak Rate: | 3.5 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 9.0 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.8 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.7 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

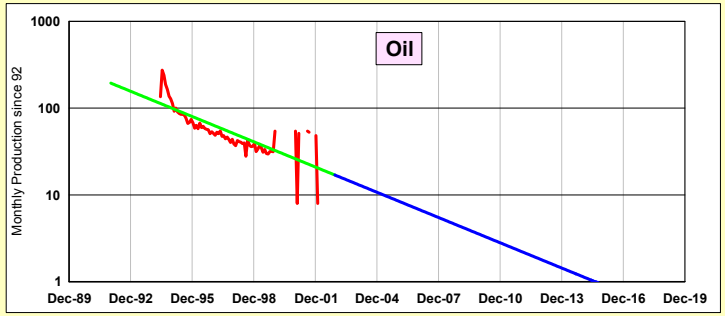
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1994 | 1,268 | 0 | 20 | 1,268 | 0 | 20 | 0 |
| 2 | 1995 | 1,024 | 0 | 13 | 2,292 | 0 | 33 | 0 |
| 3 | 1996 | 713 | 0 | 0 | 3,005 | 0 | 33 | 0 |
| 4 | 1997 | 573 | 0 | 0 | 3,579 | 0 | 33 | 0 |
| 5 | 1998 | 460 | 0 | 21 | 4,039 | 0 | 55 | 0 |
| 6 | 1999 | 397 | 0 | 15 | 4,436 | 0 | 70 | 0 |
| 7 | 2000 | 326 | 0 | 0 | 4,762 | 0 | 70 | 0 |
| 8 | 2001 | 321 | 0 | 0 | 5,083 | 0 | 70 | 0 |
| 9 | 2002 | 271 | 0 | 0 | 5,354 | 0 | 70 | 0 |
| 10 | 2003 | 181 | 0 | 0 | 5,535 | 0 | 70 | 0 |
| 11 | 2004 | 145 | 0 | 0 | 5,680 | 0 | 70 | 0 |
| 12 | 2005 | 116 | 0 | 0 | 5,796 | 0 | 70 | 0 |
| 13 | 2006 | 93 | 0 | 0 | 5,889 | 0 | 70 | 0 |
| 14 | 2007 | 74 | 0 | 0 | 5,963 | 0 | 70 | 0 |
| 15 | 2008 | 59 | 0 | 0 | 6,022 | 0 | 70 | 0 |
| 16 | 2009 | 47 | 0 | 0 | 6,070 | 0 | 70 | 0 |
| 17 | 2010 | 38 | 0 | 0 | 6,108 | 0 | 70 | 0 |
| 18 | 2011 | 30 | 0 | 0 | 6,138 | 0 | 70 | 0 |
| 19 | 2012 | 24 | 0 | 0 | 6,163 | 0 | 70 | 0 |
| 20 | 2013 | 19 | 0 | 0 | 6,182 | 0 | 70 | 0 |
| 21 | 2014 | 16 | 0 | 0 | 6,198 | 0 | 70 | 0 |
| 22 | 2015 | 12 | 0 | 0 | 6,210 | 0 | 70 | 0 |
| 23 | 2016 | 10 | 0 | 0 | 6,220 | 0 | 70 | 0 |
| 24 | 2017 | 8 | 0 | 0 | 6,228 | 0 | 70 | 0 |

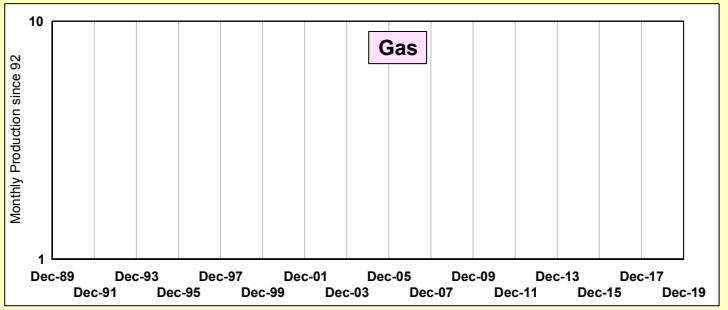
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

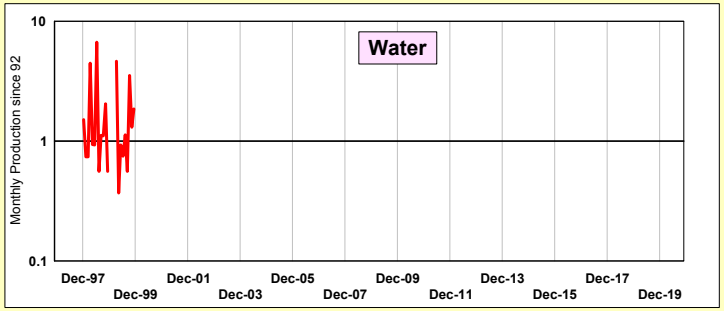
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 17 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | 0.0184 | per month | Decline Factor: | 0.0184 | per month |

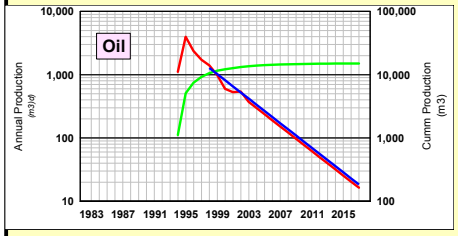


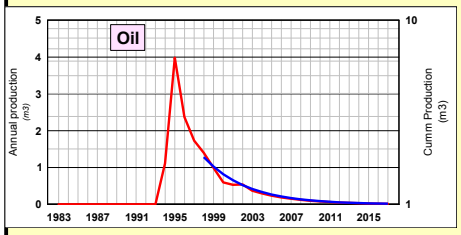



## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Rochester 4-8-I EBR**
TGI Pool: **Rochester 4-8-I EBR Pool**
TGI Field: **Rochester Field**
No of Wells: **1**




**20%** Pool Decline

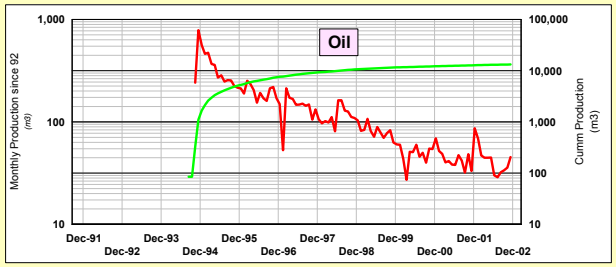
| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

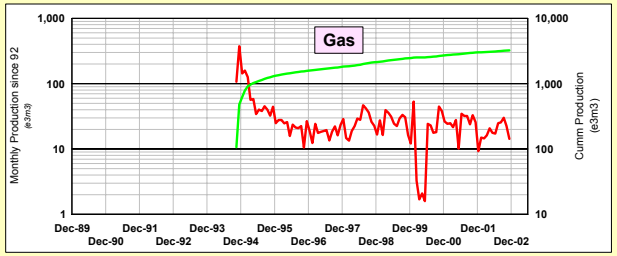
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 543 | m3/yr | 229 | e3m3/yr | 2,075 | m3/yr |
| Cumm to Date: | 13,263 | m3 | 3,246 | e3m3 | 12,809 | m3 |
| Remaining Recoverable: | 1,799 | m3 | 720 | e3m3 | 6,877 | m3 |
| Total Recovery: | 15,062 | m3 | 3,966 | e3m3 | 19,687 | m3 |

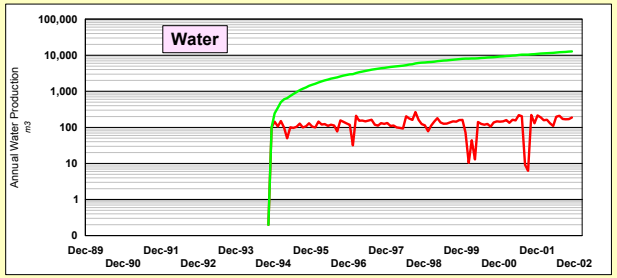
Current Rate: 1 m3/d 1 e3m3/d
Current decline rate: 20% annually

| | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| | 1 | 1994 | 1,113 | 483 | 100 | 1,113 | 483 | 100 | 434 |
| | 2 | 1995 | 3,982 | 822 | 1,318 | 5,095 | 1,305 | 1,418 | 206 |
| | 3 | 1996 | 2,373 | 274 | 1,444 | 7,469 | 1,578 | 2,862 | 115 |
| | 4 | 1997 | 1,732 | 225 | 1,621 | 9,200 | 1,803 | 4,483 | 130 |
| | 5 | 1998 | 1,399 | 331 | 1,741 | 10,599 | 2,134 | 6,224 | 236 |
| | 6 | 1999 | 992 | 325 | 1,610 | 11,591 | 2,459 | 7,834 | 328 |
| | 7 | 2000 | 598 | 241 | 1,203 | 12,189 | 2,700 | 9,036 | 403 |
| | 8 | 2001 | 531 | 318 | 1,698 | 12,720 | 3,017 | 10,734 | 598 |
| | 9 | 2002 | 543 | 229 | 2,075 | 13,263 | 3,246 | 12,809 | 422 |
| | 10 | 2003 | 373 | 149 | 1,426 | 13,636 | 3,396 | 14,235 | 400 |
| | 11 | 2004 | 298 | 119 | 1,141 | 13,935 | 3,515 | 15,376 | 400 |
| | 12 | 2005 | 239 | 95 | 912 | 14,173 | 3,610 | 16,288 | 400 |
| | 13 | 2006 | 191 | 76 | 730 | 14,364 | 3,687 | 17,018 | 400 |
| | 14 | 2007 | 153 | 61 | 584 | 14,517 | 3,748 | 17,602 | 400 |
| | 15 | 2008 | 122 | 49 | 467 | 14,639 | 3,797 | 18,069 | 400 |
| | 16 | 2009 | 98 | 39 | 374 | 14,737 | 3,836 | 18,443 | 400 |
| | 17 | 2010 | 78 | 31 | 299 | 14,815 | 3,867 | 18,742 | 400 |
| | 18 | 2011 | 63 | 25 | 239 | 14,878 | 3,892 | 18,981 | 400 |
| | 19 | 2012 | 50 | 20 | 191 | 14,928 | 3,912 | 19,172 | 400 |
| | 20 | 2013 | 40 | 16 | 153 | 14,968 | 3,928 | 19,325 | 400 |
| | 21 | 2014 | 32 | 13 | 122 | 15,000 | 3,941 | 19,448 | 400 |
| | 22 | 2015 | 26 | 10 | 98 | 15,025 | 3,951 | 19,546 | 400 |
| | 23 | 2016 | 21 | 8 | 78 | 15,046 | 3,959 | 19,624 | 400 |
| | 24 | 2017 | 16 | 7 | 63 | 15,062 | 3,966 | 19,687 | 400 |
| To date: | | | 13,263 | 3,246 | 12,809 | | | | 0.2448 |

## Monthly Production vs Month
*(1992 to 2002)*



Well No.: **T008204**

Well Name: **Paragon et al 14, Rochester 4 - 8 - IEBR**

Status: **Active Well**

MNR Pool: **Rochester 4-8-I EBR**

TGI Pool: **Rochester 4-8-I EBR Pool**

TGI Field: **Rochester Field**

Well: **T008204**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 245 | m3 per m3 | 422 | last year | |
| 2002 Water/Oil ratio: | 3.8226 | m3 per m3 | 0.9658 | last 10 years | |
| 2002 Water/ Gas Ratio: | 9.0624 | m3 per e3m3 | 3.9457 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **543** | m3/yr | **229** | e3m3/yr | **2,075** | m3/yr |
| Cumm to Date: | **13,263** | m3 | **3,246** | e3m3 | **12,809** | m3 |
| Remaining Recoverable: | **1,799** | m3 | **720** | e3m3 | **6,877** | m3 |
| Total Recovery: | **15,062** | m3 | **3,966** | e3m3 | **19,687** | m3 |
| Peak Rate: | 10.9 | m3/d | 2.3 | e3m3/d | based on annual | |
| Peak Rate: | 25.9 | m3/d | 12.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 10.9 | m3/d | 2.3 | e3m3/d | per day based on annual | |
| Current Rate: | 1.5 | m3/d | 0.6 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

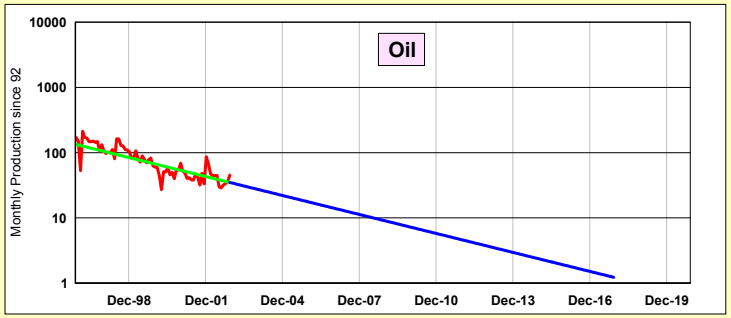
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1994 | 1,113 | 483 | 100 | 1,113 | 483 | 100 | 434 |
| 2 | 1995 | 3,982 | 822 | 1,318 | 5,095 | 1,305 | 1,418 | 206 |
| 3 | 1996 | 2,373 | 274 | 1,444 | 7,469 | 1,578 | 2,862 | 115 |
| 4 | 1997 | 1,732 | 225 | 1,621 | 9,200 | 1,803 | 4,483 | 130 |
| 5 | 1998 | 1,399 | 331 | 1,741 | 10,599 | 2,134 | 6,224 | 236 |
| 6 | 1999 | 992 | 325 | 1,610 | 11,591 | 2,459 | 7,834 | 328 |
| 7 | 2000 | 598 | 241 | 1,203 | 12,189 | 2,700 | 9,036 | 403 |
| 8 | 2001 | 531 | 318 | 1,698 | 12,720 | 3,017 | 10,734 | 598 |
| 9 | 2002 | 543 | 229 | 2,075 | 13,263 | 3,246 | 12,809 | 422 |
| 10 | 2003 | 373 | 149 | 1,426 | 13,636 | 3,396 | 14,235 | 400 |
| 11 | 2004 | 298 | 119 | 1,141 | 13,935 | 3,515 | 15,376 | 400 |
| 12 | 2005 | 239 | 95 | 912 | 14,173 | 3,610 | 16,288 | 400 |
| 13 | 2006 | 191 | 76 | 730 | 14,364 | 3,687 | 17,018 | 400 |
| 14 | 2007 | 153 | 61 | 584 | 14,517 | 3,748 | 17,602 | 400 |
| 15 | 2008 | 122 | 49 | 467 | 14,639 | 3,797 | 18,069 | 400 |
| 16 | 2009 | 98 | 39 | 374 | 14,737 | 3,836 | 18,443 | 400 |
| 17 | 2010 | 78 | 31 | 299 | 14,815 | 3,867 | 18,742 | 400 |
| 18 | 2011 | 63 | 25 | 239 | 14,878 | 3,892 | 18,981 | 400 |
| 19 | 2012 | 50 | 20 | 191 | 14,928 | 3,912 | 19,172 | 400 |
| 20 | 2013 | 40 | 16 | 153 | 14,968 | 3,928 | 19,325 | 400 |
| 21 | 2014 | 32 | 13 | 122 | 15,000 | 3,941 | 19,448 | 400 |
| 22 | 2015 | 26 | 10 | 98 | 15,025 | 3,951 | 19,546 | 400 |
| 23 | 2016 | 21 | 8 | 78 | 15,046 | 3,959 | 19,624 | 400 |
| 24 | 2017 | 16 | 7 | 63 | 15,062 | 3,966 | 19,687 | 400 |

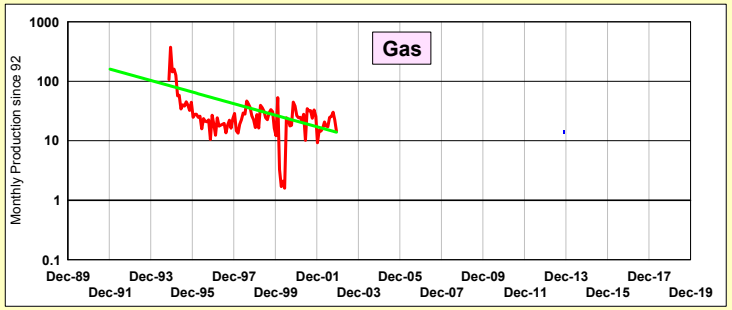
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

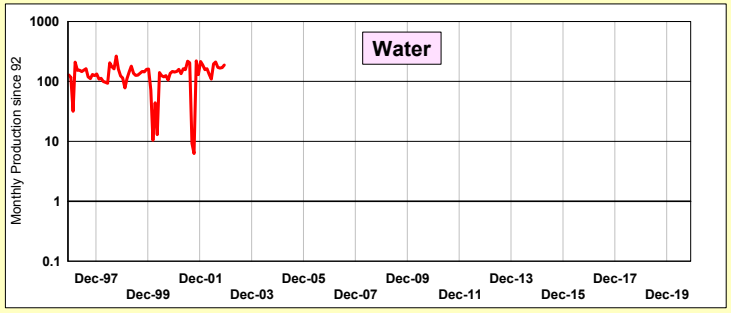
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 400 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 35 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008222**

Well Name: **Paragon et al No. 16H (Horiz. No.1), Rochester 8 - 14 -**

Status: **Active Well**

MNR Pool: **Rochester 7-17-IV EBR**

TGI Pool: **Rochester 7-17-IV EBR Pool**

TGI Field: **Rochester Field**

Well: **T008222**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 149 | m3 per m3 | 226 | last year |
| 2002 Water/Oil ratio: | 0.8175 | m3 per m3 | 0.1042 | last 10 years |
| 2002 Water/ Gas Ratio: | 3.6126 | m3 per e3m3 | 0.6985 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **112** | m3/yr | **25** | e3m3/yr | **91** | m3/yr |
| Cumm to Date: | **5,691** | m3 | **849** | e3m3 | **593** | m3 |
| Remaining Recoverable: | **88** | m3 | **20** | e3m3 | **72** | m3 |
| Total Recovery: | **5,779** | m3 | **869** | e3m3 | **665** | m3 |
| Peak Rate: | 4.5 | m3/d | 0.6 | e3m3/d | based on annual | |
| Peak Rate: | 8.2 | m3/d | 1.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.3 | m3/d | 0.6 | e3m3/d | per day based on annual | |
| Current Rate: | 0.3 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 60% | | annually | | | |

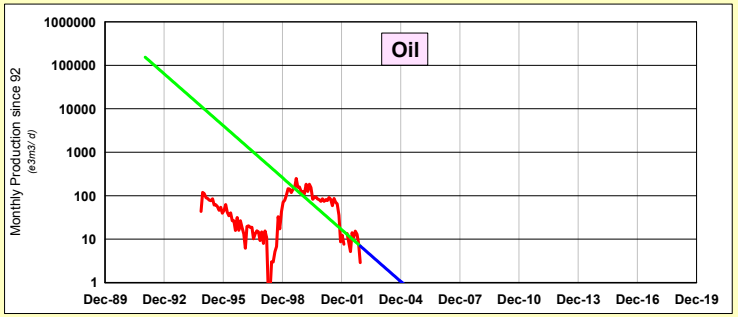
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1994 | 163 | 63 | 5 | 163 | 63 | 5 | 387 |
| 2 | 1995 | 851 | 231 | 82 | 1,014 | 295 | 87 | 272 |
| 3 | 1996 | 389 | 52 | 46 | 1,403 | 347 | 133 | 134 |
| 4 | 1997 | 175 | 37 | 52 | 1,578 | 384 | 185 | 213 |
| 5 | 1998 | 148 | 26 | 49 | 1,725 | 410 | 234 | 173 |
| 6 | 1999 | 1,642 | 206 | 110 | 3,367 | 616 | 344 | 125 |
| 7 | 2000 | 1,393 | 97 | 81 | 4,760 | 713 | 426 | 70 |
| 8 | 2001 | 819 | 111 | 76 | 5,579 | 824 | 502 | 136 |
| 9 | 2002 | 112 | 25 | 91 | 5,691 | 849 | 593 | 226 |
| 10 | 2003 | 53 | 12 | 43 | 5,744 | 861 | 636 | 225 |
| 11 | 2004 | 21 | 5 | 17 | 5,765 | 866 | 654 | 225 |
| 12 | 2005 | 8 | 2 | 7 | 5,773 | 868 | 661 | 225 |
| 13 | 2006 | 3 | 1 | 3 | 5,777 | 869 | 663 | 225 |
| 14 | 2007 | 1 | 0 | 1 | 5,778 | 869 | 665 | 225 |
| 15 | 2008 | 1 | 0 | 0 | 5,779 | 869 | 665 | 225 |
| 16 | 2009 | 0 | 0 | 0 | 5,779 | 869 | 665 | 225 |
| 17 | 2010 | 0 | 0 | 0 | 5,779 | 869 | 665 | 225 |
| 18 | 2011 | 0 | 0 | 0 | 5,779 | 869 | 665 | 225 |
| 19 | 2012 | 0 | 0 | 0 | 5,779 | 869 | 665 | 225 |
| 20 | 2013 | 0 | 0 | 0 | 5,779 | 869 | 665 | 225 |
| 21 | 2014 | 0 | 0 | 0 | 5,779 | 869 | 665 | 225 |
| 22 | 2015 | 0 | 0 | 0 | 5,779 | 869 | 665 | 225 |
| 23 | 2016 | 0 | 0 | 0 | 5,779 | 869 | 665 | 225 |
| 24 | 2017 | 0 | 0 | 0 | 5,779 | 869 | 665 | 225 |

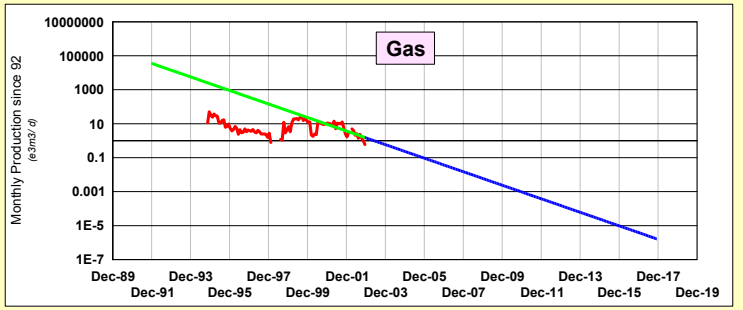
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

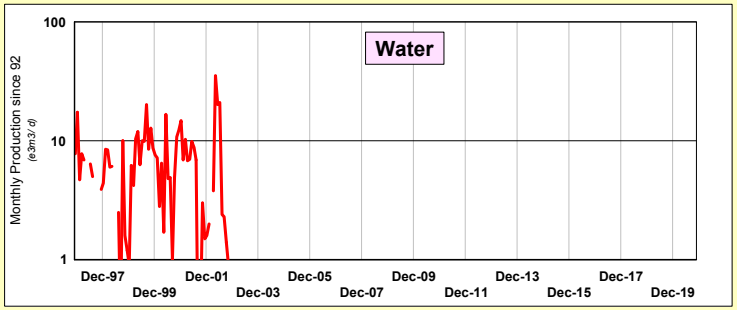
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 225 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 7 | m3/mo. |
| Decline Rate: | 60% | per year | Decline Rate: | 60% | per year |
| Decline Factor: | **0.0735** | per month | Decline Factor: | **0.0735** | per month |



Well No.: **T008197**

Well Name: **Paragon Rochester #17, Rochester 8 - 15 - IIIEBR**

Status: **Cancelled**

MNR Pool: **Rochester 7-17-IV EBR**

TGI Pool: **Rochester 7-17-IV EBR Pool**

TGI Field: **Rochester Field**

Well: **T008197**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 128 | m3 per m3 | 351 | last year | |
| 2002 Water/Oil ratio: | 0.3887 | m3 per m3 | 0.1379 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.1089 | m3 per e3m3 | 1.0754 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **581** | m3/yr | **204** | e3m3/yr | **226** | m3/yr |
| Cumm to Date: | **15,802** | m3 | **2,026** | e3m3 | **2,179** | m3 |
| Remaining Recoverable: | **1,627** | m3 | **569** | e3m3 | **632** | m3 |
| Total Recovery: | **17,428** | m3 | **2,595** | e3m3 | **2,811** | m3 |
| Peak Rate: | 11.7 | m3/d | 1.3 | e3m3/d | based on annual | |
| Peak Rate: | 18.8 | m3/d | 2.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 11.7 | m3/d | 1.3 | e3m3/d | per day based on annual | |
| Current Rate: | 1.6 | m3/d | 0.6 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

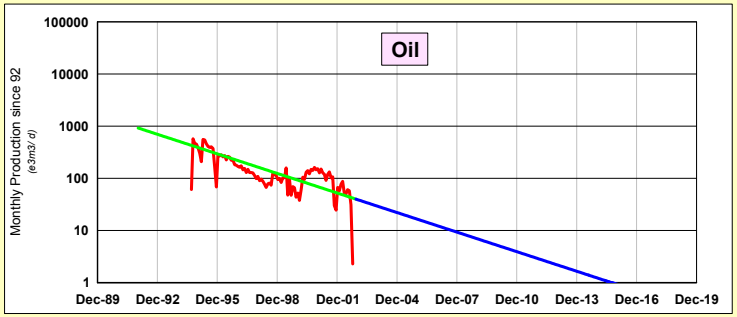
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1994 | 1,553 | 93 | 0 | 1,553 | 93 | 0 | 60 |
| 2 | 1995 | 4,283 | 487 | 507 | 5,836 | 580 | 507 | 114 |
| 3 | 1996 | 2,932 | 362 | 394 | 8,768 | 942 | 901 | 124 |
| 4 | 1997 | 1,685 | 218 | 196 | 10,453 | 1,160 | 1,096 | 129 |
| 5 | 1998 | 1,121 | 132 | 94 | 11,574 | 1,292 | 1,190 | 118 |
| 6 | 1999 | 1,012 | 196 | 603 | 12,586 | 1,488 | 1,793 | 194 |
| 7 | 2000 | 1,346 | 145 | 56 | 13,931 | 1,633 | 1,849 | 107 |
| 8 | 2001 | 1,289 | 189 | 103 | 15,220 | 1,822 | 1,953 | 147 |
| 9 | 2002 | 581 | 204 | 226 | 15,802 | 2,026 | 2,179 | 351 |
| 10 | 2003 | 412 | 144 | 160 | 16,214 | 2,170 | 2,339 | 350 |
| 11 | 2004 | 309 | 108 | 120 | 16,523 | 2,278 | 2,459 | 350 |
| 12 | 2005 | 232 | 81 | 90 | 16,755 | 2,359 | 2,549 | 350 |
| 13 | 2006 | 174 | 61 | 68 | 16,929 | 2,420 | 2,617 | 350 |
| 14 | 2007 | 130 | 46 | 51 | 17,059 | 2,466 | 2,667 | 350 |
| 15 | 2008 | 98 | 34 | 38 | 17,157 | 2,500 | 2,705 | 350 |
| 16 | 2009 | 73 | 26 | 29 | 17,230 | 2,526 | 2,734 | 350 |
| 17 | 2010 | 55 | 19 | 21 | 17,285 | 2,545 | 2,755 | 350 |
| 18 | 2011 | 41 | 14 | 16 | 17,327 | 2,559 | 2,771 | 350 |
| 19 | 2012 | 31 | 11 | 12 | 17,358 | 2,570 | 2,783 | 350 |
| 20 | 2013 | 23 | 8 | 9 | 17,381 | 2,578 | 2,792 | 350 |
| 21 | 2014 | 17 | 6 | 7 | 17,398 | 2,584 | 2,799 | 350 |
| 22 | 2015 | 13 | 5 | 5 | 17,411 | 2,589 | 2,804 | 350 |
| 23 | 2016 | 10 | 3 | 4 | 17,421 | 2,592 | 2,808 | 350 |
| 24 | 2017 | 7 | 3 | 3 | 17,428 | 2,595 | 2,811 | 350 |

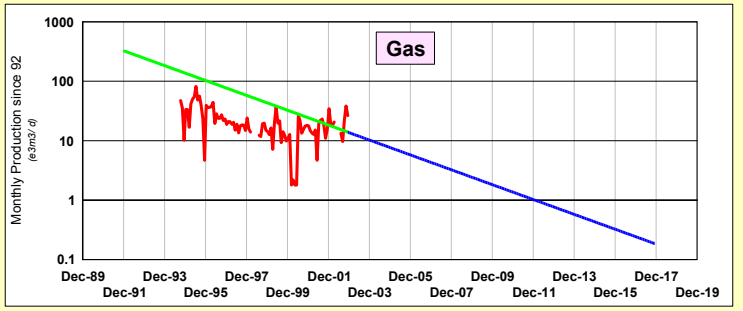
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

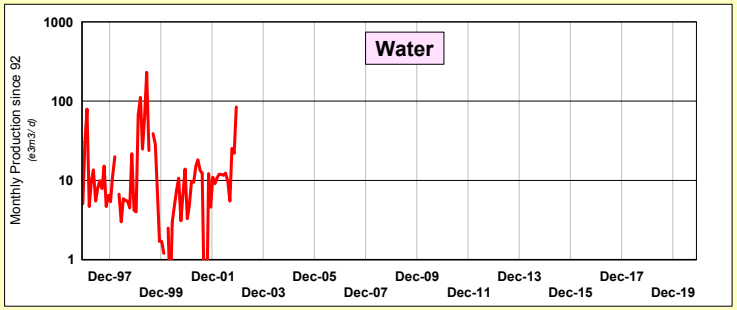
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 350 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 40 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T008111**

Well Name: **PPC Rochester #15, Rochester 7 - 17 - IV**

Status: **Active Well**

MNR Pool: **Rochester 7-17-IV EBR**

TGI Pool: **Rochester 7-17-IV EBR Pool**

TGI Field: **Rochester Field**

Well: **T008111**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 5 | m3 per m3 | 182 | last year | |
| 2002 Water/Oil ratio: | 0.5626 | m3 per m3 | 0.2199 | last 10 years | |
| 2002 Water/ Gas Ratio: | 3.0989 | m3 per e3m3 | 40.0681 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **362** | m3/yr | **66** | e3m3/yr | **204** | m3/yr |
| Cumm to Date: | **12,044** | m3 | **66** | e3m3 | **2,649** | m3 |
| Remaining Recoverable: | **1,707** | m3 | **307** | e3m3 | **961** | m3 |
| Total Recovery: | **13,752** | m3 | **373** | e3m3 | **3,609** | m3 |
| Peak Rate: | 8.4 | m3/d | 0.2 | e3m3/d | based on annual | |
| Peak Rate: | 21.5 | m3/d | 0.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 8.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 1.0 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 18% | | annually | | | |

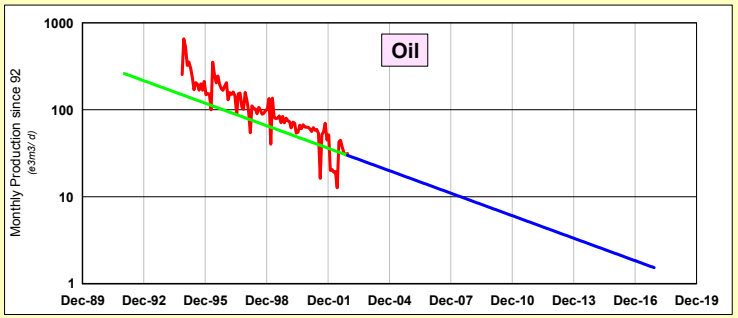
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1994 | 910 | 0 | 0 | 910 | 0 | 0 | 0 |
| 2 | 1995 | 3,066 | 0 | 65 | 3,976 | 0 | 65 | 0 |
| 3 | 1996 | 2,339 | 0 | 318 | 6,315 | 0 | 382 | 0 |
| 4 | 1997 | 1,715 | 0 | 130 | 8,030 | 0 | 512 | 0 |
| 5 | 1998 | 1,172 | 0 | 103 | 9,203 | 0 | 615 | 0 |
| 6 | 1999 | 1,045 | 0 | 168 | 10,248 | 0 | 784 | 0 |
| 7 | 2000 | 783 | 0 | 1,561 | 11,030 | 0 | 2,345 | 0 |
| 8 | 2001 | 652 | 0 | 100 | 11,682 | 0 | 2,445 | 0 |
| 9 | 2002 | 362 | 66 | 204 | 12,044 | 66 | 2,649 | 182 |
| 10 | 2003 | 324 | 58 | 182 | 12,368 | 124 | 2,831 | 180 |
| 11 | 2004 | 266 | 48 | 149 | 12,634 | 172 | 2,980 | 180 |
| 12 | 2005 | 218 | 39 | 123 | 12,851 | 211 | 3,103 | 180 |
| 13 | 2006 | 179 | 32 | 100 | 13,030 | 244 | 3,203 | 180 |
| 14 | 2007 | 146 | 26 | 82 | 13,176 | 270 | 3,285 | 180 |
| 15 | 2008 | 120 | 22 | 68 | 13,296 | 291 | 3,353 | 180 |
| 16 | 2009 | 98 | 18 | 55 | 13,395 | 309 | 3,408 | 180 |
| 17 | 2010 | 81 | 15 | 45 | 13,476 | 324 | 3,454 | 180 |
| 18 | 2011 | 66 | 12 | 37 | 13,542 | 336 | 3,491 | 180 |
| 19 | 2012 | 54 | 10 | 31 | 13,596 | 345 | 3,522 | 180 |
| 20 | 2013 | 45 | 8 | 25 | 13,641 | 353 | 3,547 | 180 |
| 21 | 2014 | 36 | 7 | 21 | 13,677 | 360 | 3,567 | 180 |
| 22 | 2015 | 30 | 5 | 17 | 13,707 | 365 | 3,584 | 180 |
| 23 | 2016 | 25 | 4 | 14 | 13,732 | 370 | 3,598 | 180 |
| 24 | 2017 | 20 | 4 | 11 | 13,752 | 373 | 3,609 | 180 |

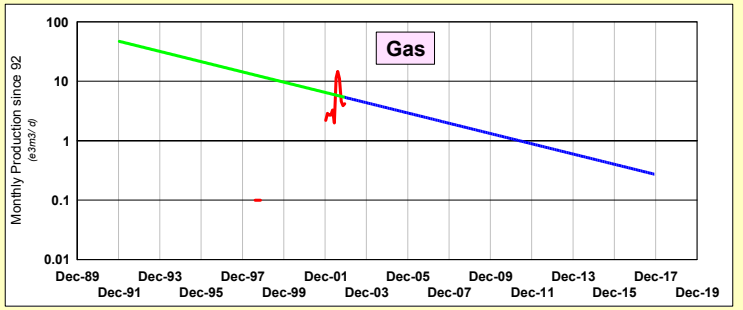
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

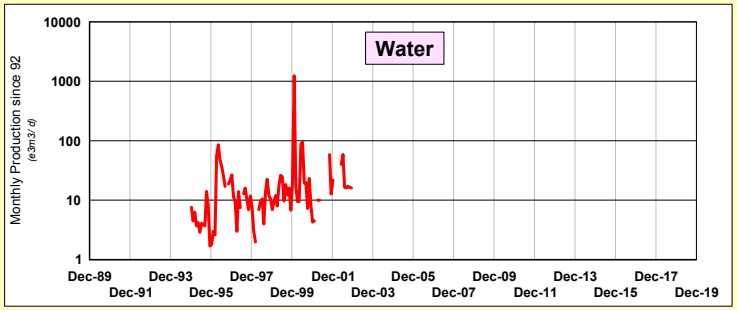
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

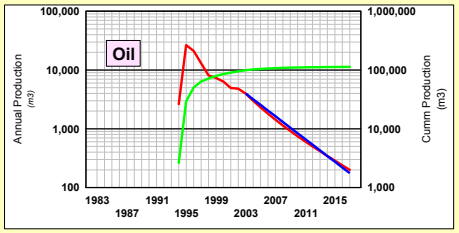
| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 180 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 30 | m3/mo. |
| Decline Rate: | 18% | per year | Decline Rate: | 18% | per year |
| Decline Factor: | **0.0164** | per month | Decline Factor: | **0.0164** | per month |

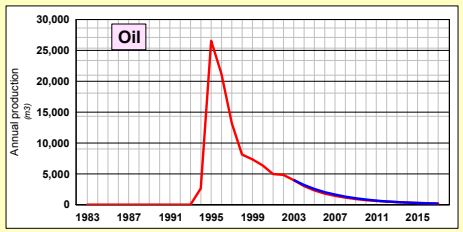


## Annual & Cumulative Production
*(since 1983)*




**20%** Poll Decline

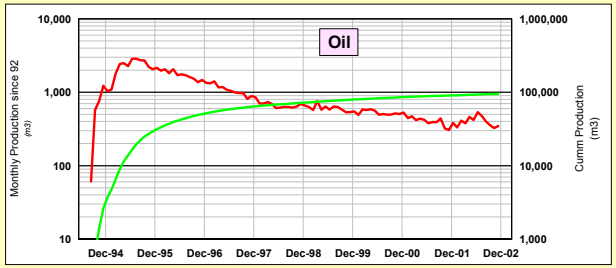
| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

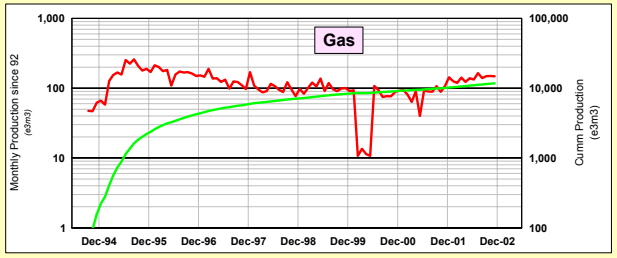
MNR Pool: **Rochester 7-17-IV EBR**
TGI Pool: **Rochester 7-17-IV EBR Pool**
TGI Field: **Rochester Field**
No of Wells: **10**

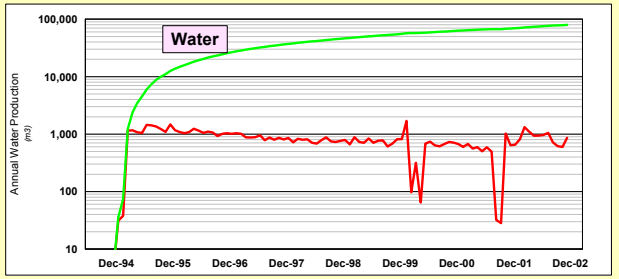
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 4,827 | m3/yr | 1,680 | e3m3/yr | 10,595 | m3/yr |
| Cumm to Date: | 95,250 | m3 | 11,795 | e3m3 | 79,471 | m3 |
| Remaining Recoverable: | 17,980 | m3 | 6,828 | e3m3 | 41,055 | m3 |
| Total Recovery: | 113,230 | m3 | 18,623 | e3m3 | 120,526 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 13 | m3/d | 5 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

| Producing Wells | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3 | 1 | 1994 | 2,626 | 157 | 5 | 2,626 | 157 | 5 | 60 |
| 6 | 2 | 1995 | 26,575 | 2,050 | 12,551 | 29,201 | 2,207 | 12,556 | 77 |
| 7 | 3 | 1996 | 21,224 | 2,037 | 12,988 | 50,425 | 4,244 | 25,544 | 96 |
| 7 | 4 | 1997 | 13,199 | 1,579 | 10,793 | 63,624 | 5,822 | 36,337 | 120 |
| 7 | 5 | 1998 | 8,133 | 1,255 | 9,324 | 71,757 | 7,078 | 45,662 | 154 |
| 7 | 6 | 1999 | 7,350 | 1,246 | 8,984 | 79,108 | 8,324 | 54,646 | 170 |
| 7 | 7 | 2000 | 6,361 | 752 | 7,798 | 85,469 | 9,076 | 62,444 | 118 |
| 7 | 8 | 2001 | 4,954 | 1,039 | 6,433 | 90,423 | 10,115 | 68,877 | 210 |
| 10 | 9 | 2002 | 4,827 | 1,680 | 10,595 | 95,250 | 11,795 | 79,471 | 348 |
| | 10 | 2003 | 3,983 | 1,352 | 8,094 | 99,233 | 13,146 | 87,565 | 339 |
| | 11 | 2004 | 3,018 | 1,067 | 6,400 | 102,250 | 14,214 | 93,965 | 354 |
| | 12 | 2005 | 2,323 | 853 | 5,121 | 104,573 | 15,067 | 99,086 | 367 |
| | 13 | 2006 | 1,813 | 689 | 4,139 | 106,386 | 15,756 | 103,225 | 380 |
| | 14 | 2007 | 1,432 | 561 | 3,374 | 107,818 | 16,318 | 106,599 | 392 |
| | 15 | 2008 | 1,143 | 461 | 2,771 | 108,962 | 16,778 | 109,370 | 403 |
| | 16 | 2009 | 921 | 380 | 2,289 | 109,883 | 17,158 | 111,659 | 413 |
| | 17 | 2010 | 748 | 315 | 1,900 | 110,630 | 17,473 | 113,559 | 421 |
| | 18 | 2011 | 611 | 262 | 1,584 | 111,242 | 17,736 | 115,143 | 429 |
| | 19 | 2012 | 503 | 219 | 1,325 | 111,744 | 17,955 | 116,468 | 436 |
| | 20 | 2013 | 415 | 183 | 1,111 | 112,159 | 18,138 | 117,579 | 442 |
| | 21 | 2014 | 344 | 154 | 935 | 112,504 | 18,292 | 118,514 | 447 |
| | 22 | 2015 | 287 | 130 | 787 | 112,791 | 18,422 | 119,301 | 452 |
| | 23 | 2016 | 239 | 109 | 664 | 113,030 | 18,531 | 119,965 | 456 |
| | 24 | 2017 | 200 | 92 | 561 | 113,230 | 18,623 | 120,526 | 459 |
| | To date: | | 95,250 | 11,795 | 79,471 | | | | 0.1238 |

## Monthly Production vs Month
*(1992 to 2002)*



# Rochester 7-17-IV EBR

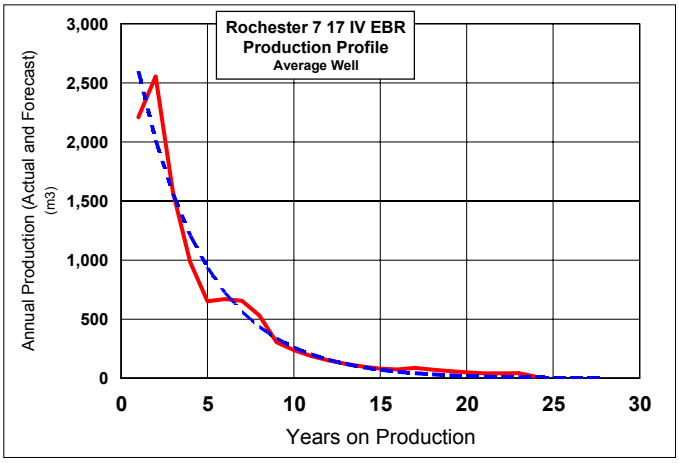
# Average Well

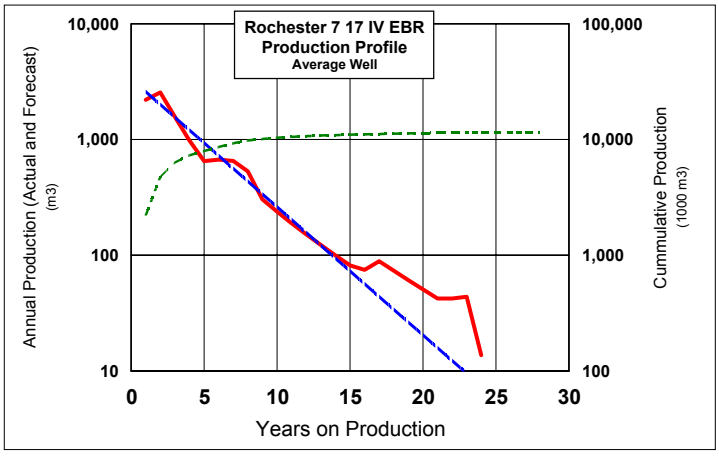
GOR: 450
WOR: 0.834

| Prod Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|
| 1 | 2,600 | 1,170 | 2,169 | 2,600 | 1,170 | 2,169 | 450 |
| 2 | 2,015 | 907 | 1,681 | 4,615 | 2,077 | 3,851 | 450 |
| 3 | 1,562 | 703 | 1,303 | 6,177 | 2,779 | 5,153 | 450 |
| 4 | 1,210 | 545 | 1,010 | 7,387 | 3,324 | 6,163 | 450 |
| 5 | 938 | 422 | 783 | 8,325 | 3,746 | 6,946 | 450 |
| 6 | 727 | 327 | 606 | 9,052 | 4,073 | 7,552 | 450 |
| 7 | 563 | 254 | 470 | 9,615 | 4,327 | 8,022 | 450 |
| 8 | 437 | 196 | 364 | 10,052 | 4,523 | 8,387 | 450 |
| 9 | 338 | 152 | 282 | 10,390 | 4,676 | 8,669 | 450 |
| 10 | 262 | 118 | 219 | 10,652 | 4,794 | 8,888 | 450 |
| 11 | 203 | 91 | 170 | 10,856 | 4,885 | 9,057 | 450 |
| 12 | 158 | 71 | 131 | 11,013 | 4,956 | 9,189 | 450 |
| 13 | 122 | 55 | 102 | 11,135 | 5,011 | 9,291 | 450 |
| 14 | 95 | 43 | 79 | 11,230 | 5,053 | 9,369 | 450 |
| 15 | 73 | 33 | 61 | 11,303 | 5,086 | 9,431 | 450 |
| 16 | 57 | 26 | 47 | 11,360 | 5,112 | 9,478 | 450 |
| 17 | 44 | 20 | 37 | 11,404 | 5,132 | 9,515 | 450 |
| 18 | 34 | 15 | 28 | 11,438 | 5,147 | 9,543 | 450 |
| 19 | 26 | 12 | 22 | 11,464 | 5,159 | 9,565 | 450 |
| 20 | 20 | 9 | 17 | 11,485 | 5,168 | 9,582 | 450 |
| 21 | 16 | 7 | 13 | 11,501 | 5,175 | 9,596 | 450 |
| 22 | 12 | 6 | 10 | 11,513 | 5,181 | 9,606 | 450 |
| 23 | 10 | 4 | 8 | 11,523 | 5,185 | 9,614 | 450 |
| 24 | 7 | 3 | 6 | 11,530 | 5,189 | 9,620 | 450 |
| 25 | 6 | 3 | 5 | 11,536 | 5,191 | 9,625 | 450 |
| 26 | 4 | 2 | 4 | 11,540 | 5,193 | 9,629 | 450 |
| 27 | 3 | 2 | 3 | 11,544 | 5,195 | 9,631 | 450 |
| 28 | 3 | 1 | 2 | 11,546 | 5,196 | 9,634 | 450 |
| 29 | 2 | 1 | 2 | 11,548 | 5,197 | 9,635 | 450 |
| 30 | 2 | 1 | 1 | 11,550 | 5,198 | 9,637 | 450 |
| 31 | 1 | 1 | 1 | 11,551 | 5,198 | 9,638 | 450 |
| 32 | 1 | 0 | 1 | 11,552 | 5,199 | 9,639 | 450 |
| | 11,552 | 5,199 | 9,639 | | | | |

| Average Well Oil | | |
|---|---|---|
| Start: | 2600 | m3 per year |
| Decline Rate | 22.5% | per year |
| Decline Facto | 0.0210 | per month |
| Recovery | 11,552 | m3 |

11,516



Well No.: **T010445**

Well Name: **TLM No.1(Horiz.#1), Rochester 4 - 16 - IIIEBR**

Status: **Active Well**

MNR Pool: **Rochester 7-17-IV EBR**

TGI Pool: **Rochester 7-17-IV EBR Pool**

TGI Field: **Rochester Field**

Well: **T010445**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 182 | m3 per m3 | 182 | last year |
| 2002 Water/Oil ratio: | 0.5072 | m3 per m3 | 0.5072 | last 10 years |
| 2002 Water/ Gas Ratio: | 2.7898 | m3 per e3m3 | 2.7898 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **497** | m3/yr | **90** | e3m3/yr | **252** | m3/yr |
| Cumm to Date: | **497** | m3 | **90** | e3m3 | **252** | m3 |
| Remaining Recoverable: | **1,639** | m3 | **295** | e3m3 | **831** | m3 |
| Total Recovery: | **2,136** | m3 | **385** | e3m3 | **1,084** | m3 |
| Peak Rate: | 1.6 | m3/d | 0.2 | e3m3/d | based on annual | |
| Peak Rate: | 3.4 | m3/d | 0.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.6 | m3/d | 0.2 | e3m3/d | per day based on annual | |
| Current Rate: | 1.4 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 35% | | annually | | | |

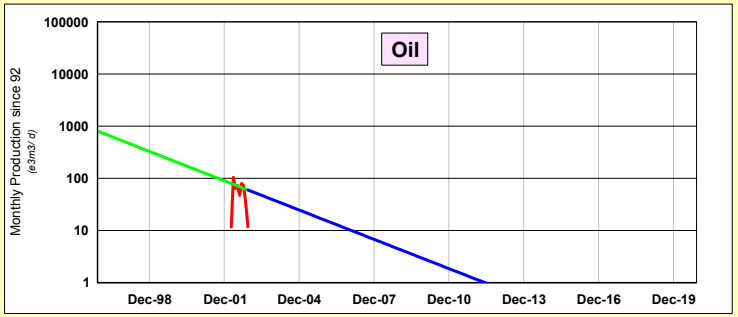
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2001 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2002 | 497 | 90 | 252 | 497 | 90 | 252 | 182 |
| 2 | 2003 | 575 | 103 | 291 | 1,072 | 194 | 544 | 180 |
| 3 | 2004 | 373 | 67 | 189 | 1,445 | 261 | 733 | 180 |
| 4 | 2005 | 243 | 44 | 123 | 1,688 | 305 | 856 | 180 |
| 5 | 2006 | 158 | 28 | 80 | 1,846 | 333 | 936 | 180 |
| 6 | 2007 | 103 | 18 | 52 | 1,948 | 352 | 988 | 180 |
| 7 | 2008 | 67 | 12 | 34 | 2,015 | 364 | 1,022 | 180 |
| 8 | 2009 | 43 | 8 | 22 | 2,058 | 371 | 1,044 | 180 |
| 9 | 2010 | 28 | 5 | 14 | 2,086 | 376 | 1,058 | 180 |
| 10 | 2011 | 18 | 3 | 9 | 2,105 | 380 | 1,068 | 180 |
| 11 | 2012 | 12 | 2 | 6 | 2,117 | 382 | 1,074 | 180 |
| 12 | 2013 | 8 | 1 | 4 | 2,124 | 383 | 1,078 | 180 |
| 13 | 2014 | 5 | 1 | 3 | 2,129 | 384 | 1,080 | 180 |
| 14 | 2015 | 3 | 1 | 2 | 2,133 | 385 | 1,082 | 180 |
| 15 | 2016 | 2 | 0 | 1 | 2,135 | 385 | 1,083 | 180 |
| 16 | 2017 | 1 | 0 | 1 | 2,136 | 385 | 1,084 | 180 |

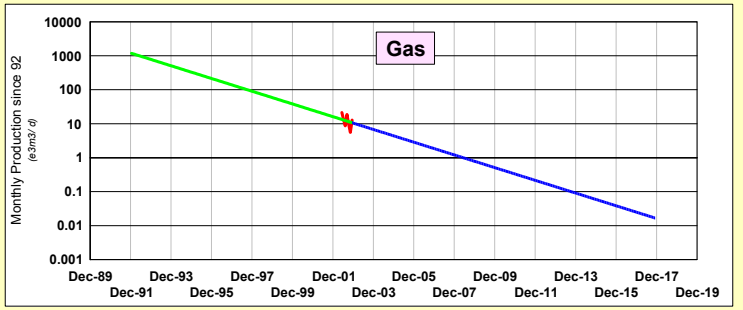
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

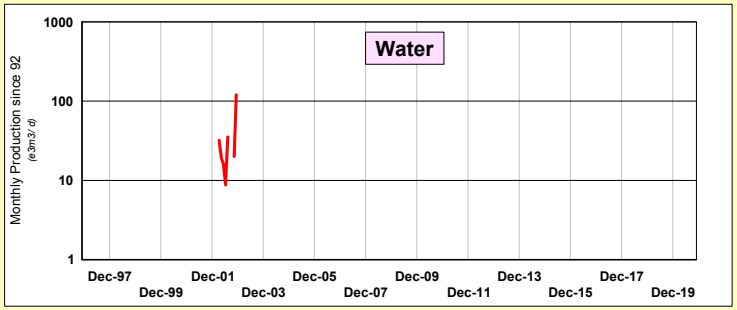
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 180 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 60 | m3/mo. |
| Decline Rate: | 35% | per year | Decline Rate: | 35% | per year |
| Decline Factor: | **0.0353** | per month | Decline Factor: | **0.0353** | per month |



Well No.: **T010443**

Well Name: **TLM No. 1 (Horiz.#1), Rochester 2 - 16 - IIEBR**

Status: **Active Well**

MNR Pool: **Rochester 7-17-IV EBR**

TGI Pool: **Rochester 7-17-IV EBR Pool**

TGI Field: **Rochester Field**

Well: **T010443**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 272 | m3 per m3 | 272 | last year |
| 2002 Water/Oil ratio: | 0.3253 | m3 per m3 | 0.3253 | last 10 years |
| 2002 Water/ Gas Ratio: | 1.1937 | m3 per e3m3 | 1.1937 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **256** | m3/yr | **70** | e3m3/yr | **83** | m3/yr |
| Cumm to Date: | **256** | m3 | **70** | e3m3 | **83** | m3 |
| Remaining Recoverable: | **1,093** | m3 | **300** | e3m3 | **355** | m3 |
| Total Recovery: | **1,348** | m3 | **370** | e3m3 | **439** | m3 |
| Peak Rate: | 1.0 | m3/d | 0.2 | e3m3/d | based on annual | |
| Peak Rate: | 3.4 | m3/d | 0.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.0 | m3/d | 0.2 | e3m3/d | per day based on annual | |
| Current Rate: | 0.7 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 35% | | annually | | | |

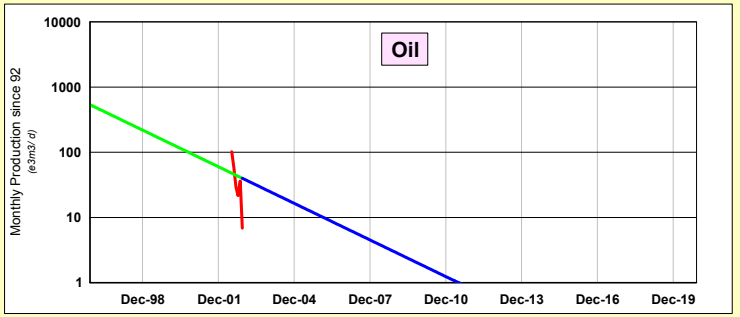
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2001 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2002 | 256 | 70 | 83 | 256 | 70 | 83 | 272 |
| 2 | 2003 | 383 | 105 | 125 | 639 | 175 | 208 | 275 |
| 3 | 2004 | 249 | 68 | 81 | 888 | 243 | 289 | 275 |
| 4 | 2005 | 162 | 45 | 53 | 1,050 | 288 | 341 | 275 |
| 5 | 2006 | 105 | 29 | 34 | 1,155 | 317 | 376 | 275 |
| 6 | 2007 | 68 | 19 | 22 | 1,223 | 336 | 398 | 275 |
| 7 | 2008 | 44 | 12 | 14 | 1,268 | 348 | 412 | 275 |
| 8 | 2009 | 29 | 8 | 9 | 1,297 | 356 | 422 | 275 |
| 9 | 2010 | 19 | 5 | 6 | 1,315 | 361 | 428 | 275 |
| 10 | 2011 | 12 | 3 | 4 | 1,328 | 364 | 432 | 275 |
| 11 | 2012 | 8 | 2 | 3 | 1,335 | 367 | 434 | 275 |
| 12 | 2013 | 5 | 1 | 2 | 1,341 | 368 | 436 | 275 |
| 13 | 2014 | 3 | 1 | 1 | 1,344 | 369 | 437 | 275 |
| 14 | 2015 | 2 | 1 | 1 | 1,346 | 370 | 438 | 275 |
| 15 | 2016 | 1 | 0 | 0 | 1,348 | 370 | 438 | 275 |
| 16 | 2017 | 1 | 0 | 0 | 1,348 | 370 | 439 | 275 |

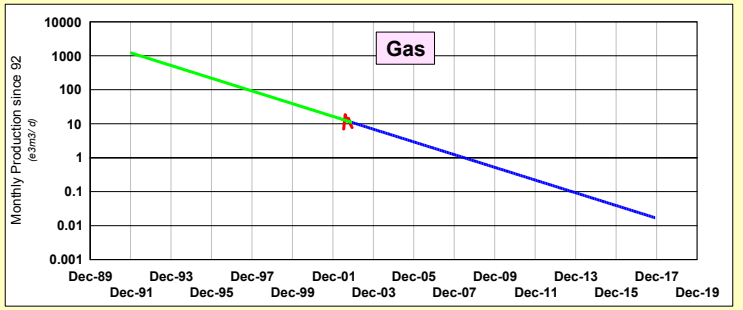
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

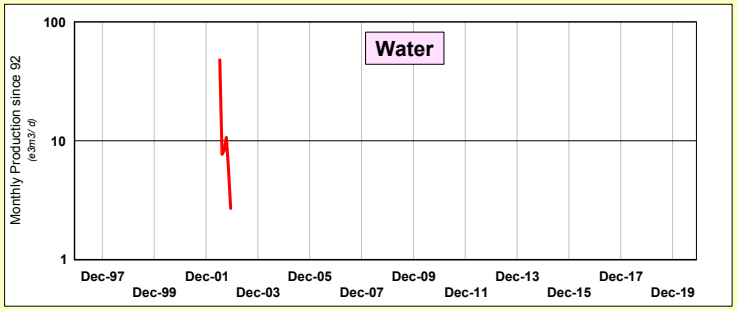
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 275 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 40 | m3/mo. |
| Decline Rate: | 35% | per year | Decline Rate: | 35% | per year |
| Decline Factor: | **0.0353** | per month | Decline Factor: | **0.0353** | per month |



Well No.: **T008229**

Well Name: **Paragon et al #24, Rochester 1 - 16 - IIIEBR**

Status: **Active Well**

MNR Pool: **Rochester 7-17-IV EBR**

TGI Pool: **Rochester 7-17-IV EBR Pool**

TGI Field: **Rochester Field**

Well: **T008229**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 217 | m3 per m3 | 217 | last year |
| 2002 Water/Oil ratio: | 4.4237 | m3 per m3 | 4.4237 | last 10 years |
| 2002 Water/ Gas Ratio: | 20.3812 | m3 per e3m3 | 20.3812 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **241** | m3/yr | **52** | e3m3/yr | **1,064** | m3/yr |
| Cumm to Date: | **241** | m3 | **52** | e3m3 | **1,064** | m3 |
| Remaining Recoverable: | **1,539** | m3 | **339** | e3m3 | **6,810** | m3 |
| Total Recovery: | **1,780** | m3 | **391** | e3m3 | **7,874** | m3 |
| Peak Rate: | 0.7 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 2.1 | m3/d | 0.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.7 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.7 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

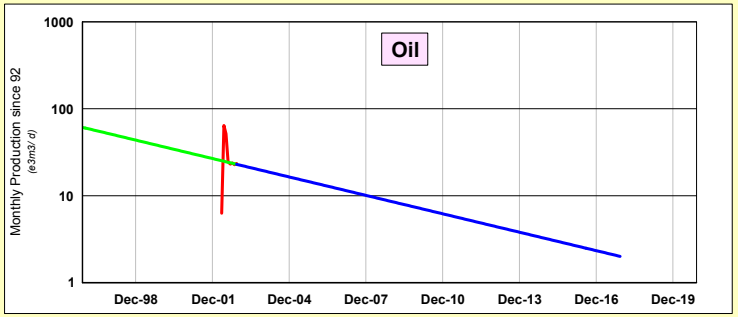
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2001 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2002 | 241 | 52 | 1,064 | 241 | 52 | 1,064 | 217 |
| 2 | 2003 | 253 | 56 | 1,119 | 494 | 108 | 2,183 | 220 |
| 3 | 2004 | 215 | 47 | 951 | 709 | 155 | 3,135 | 220 |
| 4 | 2005 | 183 | 40 | 809 | 891 | 195 | 3,943 | 220 |
| 5 | 2006 | 155 | 34 | 687 | 1,047 | 230 | 4,631 | 220 |
| 6 | 2007 | 132 | 29 | 584 | 1,179 | 259 | 5,215 | 220 |
| 7 | 2008 | 112 | 25 | 497 | 1,291 | 283 | 5,712 | 220 |
| 8 | 2009 | 95 | 21 | 422 | 1,387 | 304 | 6,134 | 220 |
| 9 | 2010 | 81 | 18 | 359 | 1,468 | 322 | 6,492 | 220 |
| 10 | 2011 | 69 | 15 | 305 | 1,537 | 337 | 6,797 | 220 |
| 11 | 2012 | 59 | 13 | 259 | 1,595 | 350 | 7,057 | 220 |
| 12 | 2013 | 50 | 11 | 220 | 1,645 | 361 | 7,277 | 220 |
| 13 | 2014 | 42 | 9 | 187 | 1,687 | 371 | 7,464 | 220 |
| 14 | 2015 | 36 | 8 | 159 | 1,723 | 378 | 7,624 | 220 |
| 15 | 2016 | 31 | 7 | 135 | 1,754 | 385 | 7,759 | 220 |
| 16 | 2017 | 26 | 6 | 115 | 1,780 | 391 | 7,874 | 220 |

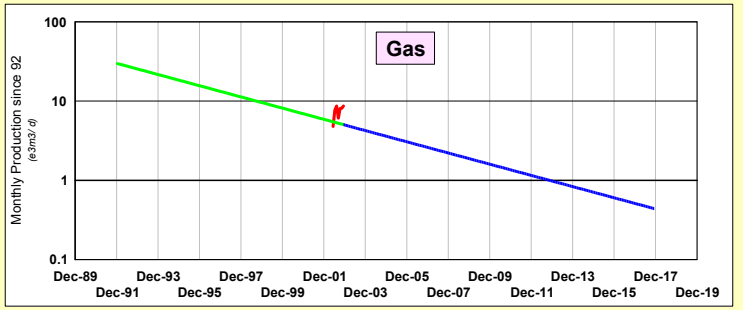
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

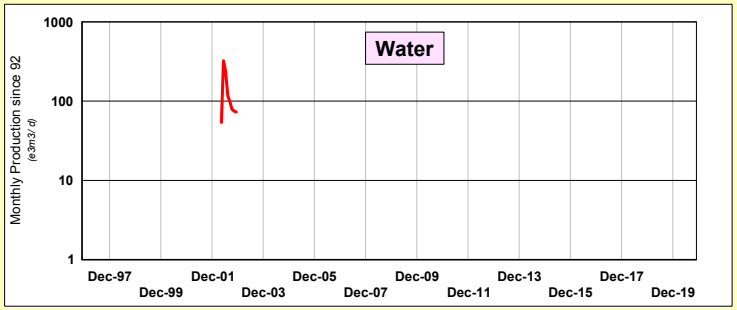
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 220 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 23 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T008412**

Well Name: **Paragon et al # 23, Rochester 3 - 16 - IIIEBR**

Status: **Active Well**

MNR Pool: **Rochester 7-17-IV EBR**

TGI Pool: **Rochester 7-17-IV EBR Pool**

TGI Field: **Rochester Field**

Well: **T008412**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 30 | m3 per m3 | 100 | last year | |
| 2002 Water/Oil ratio: | 3.0321 | m3 per m3 | 1.1215 | last 10 years | |
| 2002 Water/ Gas Ratio: | 30.4103 | m3 per e3m3 | 37.6339 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **782** | m3/yr | **78** | e3m3/yr | **2,372** | m3/yr |
| Cumm to Date: | **2,631** | m3 | **78** | e3m3 | **2,951** | m3 |
| Remaining Recoverable: | **1,320** | m3 | **132** | e3m3 | **4,001** | m3 |
| Total Recovery: | **3,950** | m3 | **210** | e3m3 | **6,952** | m3 |
| Peak Rate: | 2.1 | m3/d | 0.2 | e3m3/d | based on annual | |
| Peak Rate: | 4.1 | m3/d | 0.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.8 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 2.1 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

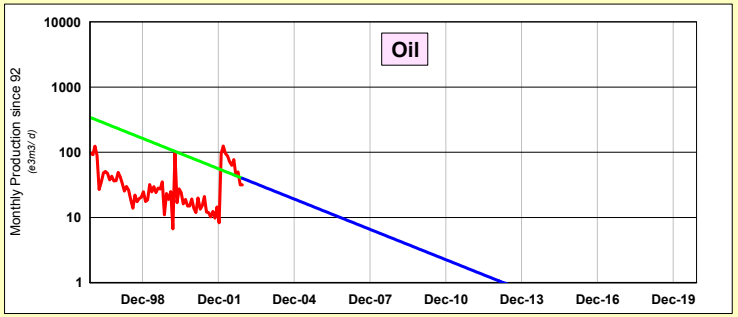
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1996 | 98 | 0 | 30 | 98 | 0 | 30 | 0 |
| 2 | 1997 | 669 | 0 | 142 | 767 | 0 | 172 | 0 |
| 3 | 1998 | 318 | 0 | 77 | 1,085 | 0 | 249 | 1 |
| 4 | 1999 | 297 | 0 | 187 | 1,382 | 0 | 436 | 1 |
| 5 | 2000 | 301 | 0 | 61 | 1,682 | 0 | 497 | 0 |
| 6 | 2001 | 166 | 0 | 81 | 1,849 | 0 | 579 | 0 |
| 7 | 2002 | 782 | 78 | 2,372 | 2,631 | 78 | 2,951 | 100 |
| 8 | 2003 | 398 | 40 | 1,206 | 3,029 | 118 | 4,157 | 100 |
| 9 | 2004 | 278 | 28 | 844 | 3,307 | 146 | 5,001 | 100 |
| 10 | 2005 | 195 | 19 | 591 | 3,502 | 166 | 5,592 | 100 |
| 11 | 2006 | 136 | 14 | 414 | 3,638 | 179 | 6,005 | 100 |
| 12 | 2007 | 96 | 10 | 290 | 3,734 | 189 | 6,295 | 100 |
| 13 | 2008 | 67 | 7 | 203 | 3,801 | 195 | 6,498 | 100 |
| 14 | 2009 | 47 | 5 | 142 | 3,848 | 200 | 6,640 | 100 |
| 15 | 2010 | 33 | 3 | 99 | 3,880 | 203 | 6,739 | 100 |
| 16 | 2011 | 23 | 2 | 70 | 3,903 | 206 | 6,808 | 100 |
| 17 | 2012 | 16 | 2 | 49 | 3,919 | 207 | 6,857 | 100 |
| 18 | 2013 | 11 | 1 | 34 | 3,931 | 208 | 6,891 | 100 |
| 19 | 2014 | 8 | 1 | 24 | 3,938 | 209 | 6,915 | 100 |
| 20 | 2015 | 6 | 1 | 17 | 3,944 | 210 | 6,932 | 100 |
| 21 | 2016 | 4 | 0 | 12 | 3,948 | 210 | 6,943 | 100 |
| 22 | 2017 | 3 | 0 | 8 | 3,950 | 210 | 6,952 | 100 |

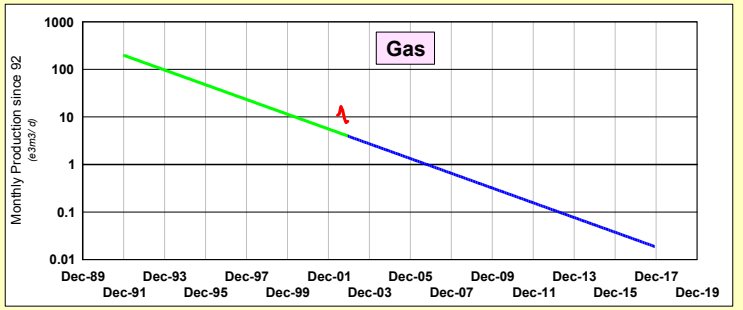
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

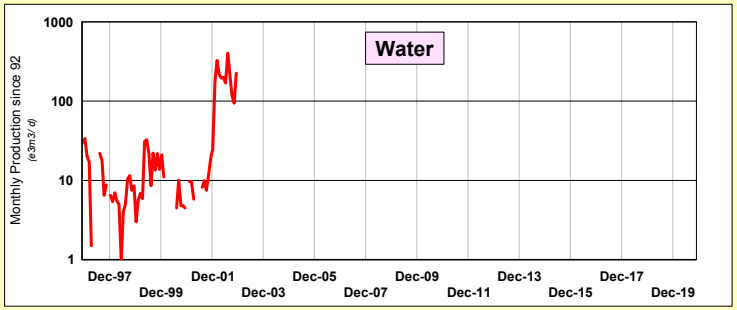
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 40 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | **0.0293** | per month | Decline Factor: | **0.0293** | per month |



Well No.: **T008313**

Well Name: **Paragon et al No. 20, Rochester 3 - 15 - IIEBR**

Status: **Active Well**

MNR Pool: **Rochester 7-17-IV EBR**

TGI Pool: **Rochester 7-17-IV EBR Pool**

TGI Field: **Rochester Field**

Well: **T008313**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 179 | m3 per m3 | 457 | last year | |
| 2002 Water/Oil ratio: | 5.3044 | m3 per m3 | 1.9690 | last 10 years | |
| 2002 Water/ Gas Ratio: | 11.5985 | m3 per e3m3 | 10.9894 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **655** | m3/yr | **300** | e3m3/yr | **3,475** | m3/yr |
| Cumm to Date: | **15,497** | m3 | **2,777** | e3m3 | **30,514** | m3 |
| Remaining Recoverable: | **3,347** | m3 | **1,673** | e3m3 | **17,752** | m3 |
| Total Recovery: | **18,844** | m3 | **4,450** | e3m3 | **48,266** | m3 |
| Peak Rate: | 11.4 | m3/d | 1.5 | e3m3/d | based on annual | |
| Peak Rate: | 26.1 | m3/d | 2.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 11.4 | m3/d | 1.5 | e3m3/d | per day based on annual | |
| Current Rate: | 1.8 | m3/d | 0.8 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

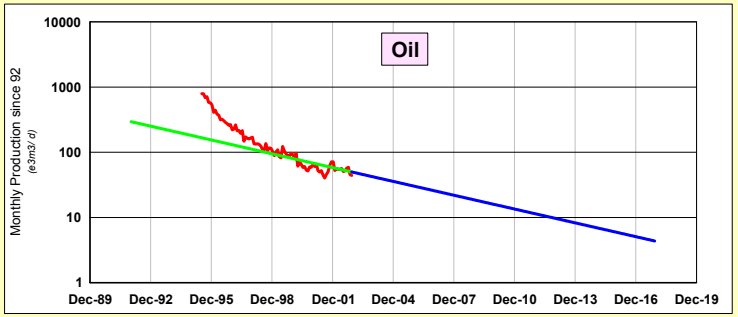
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1995 | 4,140 | 331 | 2,582 | 4,140 | 331 | 2,582 | 80 |
| 2 | 1996 | 4,178 | 541 | 5,105 | 8,318 | 871 | 7,687 | 129 |
| 3 | 1997 | 2,361 | 489 | 4,623 | 10,679 | 1,361 | 12,310 | 207 |
| 4 | 1998 | 1,522 | 363 | 4,422 | 12,201 | 1,724 | 16,732 | 239 |
| 5 | 1999 | 1,166 | 336 | 4,349 | 13,367 | 2,060 | 21,081 | 288 |
| 6 | 2000 | 813 | 178 | 2,986 | 14,180 | 2,238 | 24,068 | 219 |
| 7 | 2001 | 662 | 239 | 2,972 | 14,842 | 2,477 | 27,039 | 361 |
| 8 | 2002 | 655 | 300 | 3,475 | 15,497 | 2,777 | 30,514 | 457 |
| 9 | 2003 | 550 | 275 | 2,918 | 16,047 | 3,052 | 33,432 | 500 |
| 10 | 2004 | 468 | 234 | 2,480 | 16,515 | 3,285 | 35,912 | 500 |
| 11 | 2005 | 397 | 199 | 2,108 | 16,912 | 3,484 | 38,020 | 500 |
| 12 | 2006 | 338 | 169 | 1,792 | 17,250 | 3,653 | 39,812 | 500 |
| 13 | 2007 | 287 | 144 | 1,523 | 17,537 | 3,797 | 41,335 | 500 |
| 14 | 2008 | 244 | 122 | 1,295 | 17,781 | 3,919 | 42,629 | 500 |
| 15 | 2009 | 207 | 104 | 1,100 | 17,989 | 4,022 | 43,730 | 500 |
| 16 | 2010 | 176 | 88 | 935 | 18,165 | 4,111 | 44,665 | 500 |
| 17 | 2011 | 150 | 75 | 795 | 18,315 | 4,186 | 45,460 | 500 |
| 18 | 2012 | 127 | 64 | 676 | 18,442 | 4,249 | 46,136 | 500 |
| 19 | 2013 | 108 | 54 | 574 | 18,551 | 4,303 | 46,710 | 500 |
| 20 | 2014 | 92 | 46 | 488 | 18,643 | 4,349 | 47,198 | 500 |
| 21 | 2015 | 78 | 39 | 415 | 18,721 | 4,388 | 47,613 | 500 |
| 22 | 2016 | 67 | 33 | 353 | 18,787 | 4,422 | 47,966 | 500 |
| 23 | 2017 | 57 | 28 | 300 | 18,844 | 4,450 | 48,266 | 500 |

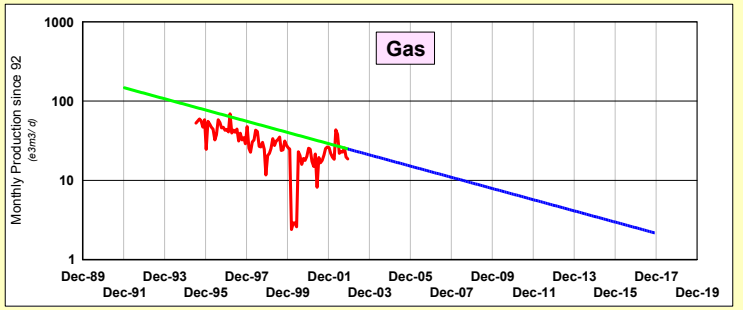
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

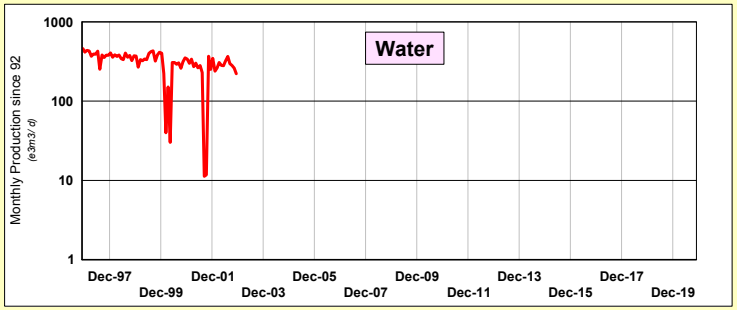
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 500 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 50 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T008237**

Well Name: **Paragon et al No. 22, Rochester 5 - 15 - IIIEBR**

Status: **Active Well**

MNR Pool: **Rochester 7-17-IV EBR**

TGI Pool: **Rochester 7-17-IV EBR Pool**

TGI Field: **Rochester Field**

Well: **T008237**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 148 | m3 per m3 | 612 | last year | |
| 2002 Water/Oil ratio: | 1.4234 | m3 per m3 | 0.6609 | last 10 years | |
| 2002 Water/ Gas Ratio: | 2.3267 | m3 per e3m3 | 4.4776 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,005** | m3/yr | **615** | e3m3/yr | **1,430** | m3/yr |
| Cumm to Date: | **28,624** | m3 | **4,225** | e3m3 | **18,917** | m3 |
| Remaining Recoverable: | **5,020** | m3 | **3,012** | e3m3 | **7,145** | m3 |
| Total Recovery: | **33,644** | m3 | **7,237** | e3m3 | **26,062** | m3 |
| Peak Rate: | 23.5 | m3/d | 2.0 | e3m3/d | based on annual | |
| Peak Rate: | 32.5 | m3/d | 2.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 21.6 | m3/d | 2.0 | e3m3/d | per day based on annual | |
| Current Rate: | 2.8 | m3/d | 1.7 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

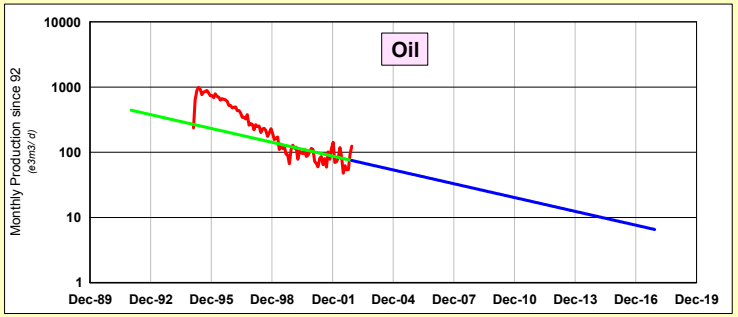
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1995 | 8,579 | 608 | 4,279 | 8,579 | 608 | 4,279 | 71 |
| 2 | 1996 | 7,878 | 727 | 3,432 | 16,457 | 1,334 | 7,712 | 92 |
| 3 | 1997 | 4,669 | 623 | 2,909 | 21,127 | 1,957 | 10,621 | 133 |
| 4 | 1998 | 2,737 | 556 | 2,071 | 23,864 | 2,513 | 12,692 | 203 |
| 5 | 1999 | 1,535 | 385 | 1,649 | 25,399 | 2,898 | 14,340 | 251 |
| 6 | 2000 | 1,245 | 277 | 1,278 | 26,644 | 3,175 | 15,618 | 222 |
| 7 | 2001 | 975 | 435 | 1,868 | 27,619 | 3,610 | 17,487 | 446 |
| 8 | 2002 | 1,005 | 615 | 1,430 | 28,624 | 4,225 | 18,917 | 612 |
| 9 | 2003 | 825 | 495 | 1,174 | 29,449 | 4,720 | 20,091 | 600 |
| 10 | 2004 | 701 | 421 | 998 | 30,150 | 5,141 | 21,089 | 600 |
| 11 | 2005 | 596 | 358 | 848 | 30,746 | 5,498 | 21,938 | 600 |
| 12 | 2006 | 507 | 304 | 721 | 31,253 | 5,802 | 22,659 | 600 |
| 13 | 2007 | 431 | 258 | 613 | 31,684 | 6,061 | 23,272 | 600 |
| 14 | 2008 | 366 | 220 | 521 | 32,050 | 6,280 | 23,793 | 600 |
| 15 | 2009 | 311 | 187 | 443 | 32,361 | 6,467 | 24,236 | 600 |
| 16 | 2010 | 264 | 159 | 376 | 32,626 | 6,626 | 24,613 | 600 |
| 17 | 2011 | 225 | 135 | 320 | 32,850 | 6,761 | 24,933 | 600 |
| 18 | 2012 | 191 | 115 | 272 | 33,042 | 6,875 | 25,205 | 600 |
| 19 | 2013 | 162 | 97 | 231 | 33,204 | 6,973 | 25,436 | 600 |
| 20 | 2014 | 138 | 83 | 197 | 33,342 | 7,056 | 25,632 | 600 |
| 21 | 2015 | 117 | 70 | 167 | 33,459 | 7,126 | 25,799 | 600 |
| 22 | 2016 | 100 | 60 | 142 | 33,559 | 7,186 | 25,941 | 600 |
| 23 | 2017 | 85 | 51 | 121 | 33,644 | 7,237 | 26,062 | 600 |

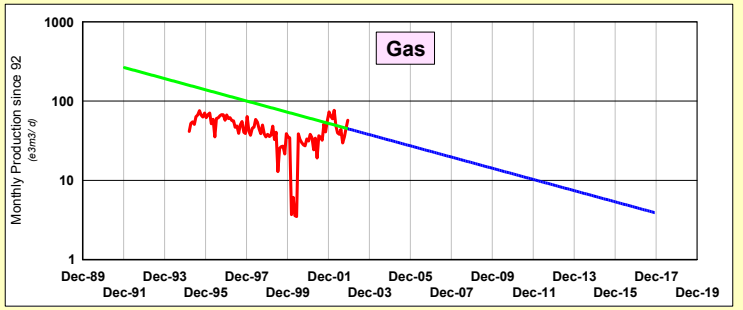
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

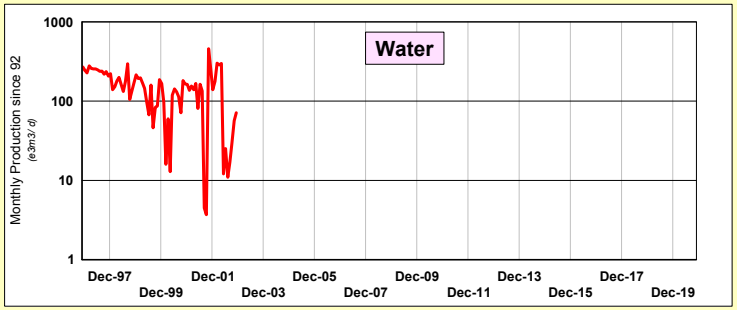
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 600 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 75 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T008232**

Well Name: **Paragon et al No. 21, Rochester 2 - 15 - IIEBR**

Status: **Active Well**

MNR Pool: **Rochester 7-17-IV EBR**

TGI Pool: **Rochester 7-17-IV EBR Pool**

TGI Field: **Rochester Field**

Well: **T008232**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 112 | m3 per m3 | 536 | last year | |
| 2002 Water/Oil ratio: | 4.1519 | m3 per m3 | 1.4513 | last 10 years | |
| 2002 Water/ Gas Ratio: | 7.7531 | m3 per e3m3 | 12.9822 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **337** | m3/yr | **180** | e3m3/yr | **1,397** | m3/yr |
| Cumm to Date: | **13,967** | m3 | **1,561** | e3m3 | **20,270** | m3 |
| Remaining Recoverable: | **601** | m3 | **180** | e3m3 | **2,495** | m3 |
| Total Recovery: | **14,568** | m3 | **1,742** | e3m3 | **22,766** | m3 |
| Peak Rate: | 15.5 | m3/d | 1.1 | e3m3/d | based on annual | |
| Peak Rate: | 21.2 | m3/d | 1.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 9.3 | m3/d | 1.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.9 | m3/d | 0.5 | e3m3/d | | |
| Current decline rate: | 35% | | annually | | | |

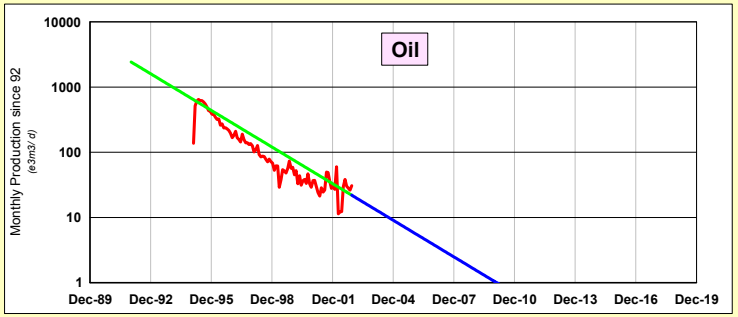
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1995 | 5,656 | 394 | 5,036 | 5,656 | 394 | 5,036 | 70 |
| 2 | 1996 | 3,411 | 355 | 3,663 | 9,067 | 749 | 8,699 | 104 |
| 3 | 1997 | 1,924 | 212 | 2,742 | 10,991 | 961 | 11,441 | 110 |
| 4 | 1998 | 1,115 | 178 | 2,508 | 12,106 | 1,139 | 13,949 | 159 |
| 5 | 1999 | 653 | 122 | 1,918 | 12,759 | 1,261 | 15,867 | 187 |
| 6 | 2000 | 481 | 55 | 1,775 | 13,241 | 1,317 | 17,642 | 115 |
| 7 | 2001 | 390 | 65 | 1,231 | 13,631 | 1,381 | 18,873 | 165 |
| 8 | 2002 | 337 | 180 | 1,397 | 13,967 | 1,561 | 20,270 | 536 |
| 9 | 2003 | 211 | 63 | 875 | 14,178 | 1,625 | 21,145 | 300 |
| 10 | 2004 | 137 | 41 | 569 | 14,315 | 1,666 | 21,714 | 300 |
| 11 | 2005 | 89 | 27 | 370 | 14,404 | 1,692 | 22,083 | 300 |
| 12 | 2006 | 58 | 17 | 240 | 14,462 | 1,710 | 22,323 | 300 |
| 13 | 2007 | 38 | 11 | 156 | 14,499 | 1,721 | 22,479 | 300 |
| 14 | 2008 | 24 | 7 | 101 | 14,524 | 1,728 | 22,581 | 300 |
| 15 | 2009 | 16 | 5 | 66 | 14,540 | 1,733 | 22,647 | 300 |
| 16 | 2010 | 10 | 3 | 43 | 14,550 | 1,736 | 22,690 | 300 |
| 17 | 2011 | 7 | 2 | 28 | 14,557 | 1,738 | 22,718 | 300 |
| 18 | 2012 | 4 | 1 | 18 | 14,561 | 1,740 | 22,736 | 300 |
| 19 | 2013 | 3 | 1 | 12 | 14,564 | 1,740 | 22,748 | 300 |
| 20 | 2014 | 2 | 1 | 8 | 14,566 | 1,741 | 22,755 | 300 |
| 21 | 2015 | 1 | 0 | 5 | 14,567 | 1,741 | 22,760 | 300 |
| 22 | 2016 | 1 | 0 | 3 | 14,568 | 1,742 | 22,763 | 300 |
| 23 | 2017 | 1 | 0 | 2 | 14,568 | 1,742 | 22,766 | 300 |

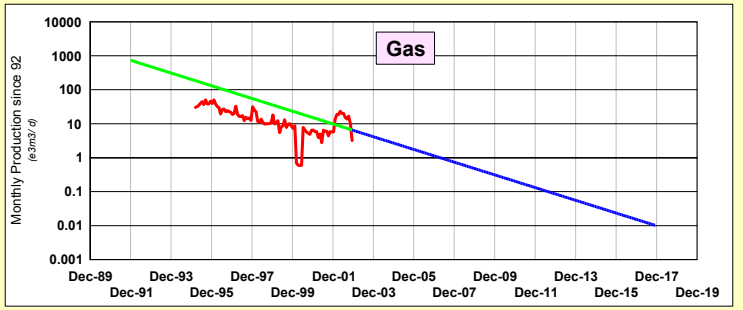
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

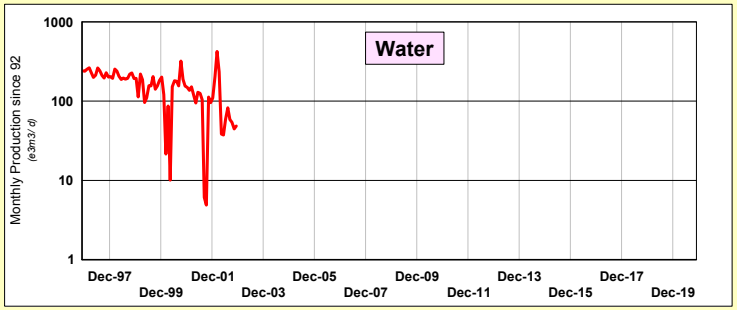
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 300 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 22 | m3/mo. |
| Decline Rate: | 35% | per year | Decline Rate: | 35% | per year |
| Decline Factor: | **0.0353** | per month | Decline Factor: | **0.0353** | per month |



Well No.: **T008190**

Well Name: **PPC Rochester #12, Rochester 8 - 8 - IEBR**

Status: **Active Well**

MNR Pool: **Rochester 8-8-I EBR**

TGI Pool: **Rochester 8-8-I EBR Pool**

TGI Field: **Rochester Field**

Well: **T008190**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 113 | m3 per m3 | 198 | last year |
| 2002 Water/Oil ratio: | 14.2076 | m3 per m3 | 4.2049 | last 10 years |
| 2002 Water/ Gas Ratio: | 71.6389 | m3 per e3m3 | 37.1360 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **358** | m3/yr | **71** | e3m3/yr | **5,079** | m3/yr |
| Cumm to Date: | **6,358** | m3 | **720** | e3m3 | **26,734** | m3 |
| Remaining Recoverable: | **1,339** | m3 | **268** | e3m3 | **19,019** | m3 |
| Total Recovery: | **7,696** | m3 | **988** | e3m3 | **45,753** | m3 |
| Peak Rate: | 3.8 | m3/d | 0.6 | e3m3/d | based on annual | |
| Peak Rate: | 5.8 | m3/d | 3.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.7 | m3/d | 0.6 | e3m3/d | per day based on annual | |
| Current Rate: | 1.0 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

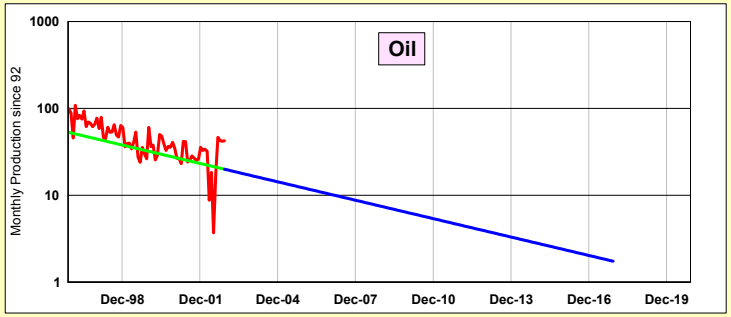
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1994 | 391 | 42 | 355 | 391 | 42 | 355 | 108 |
| 2 | 1995 | 1,351 | 231 | 2,582 | 1,742 | 273 | 2,937 | 171 |
| 3 | 1996 | 1,391 | 94 | 3,453 | 3,133 | 367 | 6,390 | 67 |
| 4 | 1997 | 898 | 66 | 3,454 | 4,031 | 433 | 9,844 | 74 |
| 5 | 1998 | 698 | 38 | 3,413 | 4,729 | 472 | 13,256 | 55 |
| 6 | 1999 | 448 | 134 | 2,676 | 5,177 | 605 | 15,932 | 298 |
| 7 | 2000 | 473 | 26 | 3,205 | 5,649 | 631 | 19,137 | 55 |
| 8 | 2001 | 351 | 18 | 2,518 | 6,000 | 649 | 21,655 | 51 |
| 9 | 2002 | 358 | 71 | 5,079 | 6,358 | 720 | 26,734 | 198 |
| 10 | 2003 | 220 | 44 | 3,126 | 6,578 | 764 | 29,860 | 200 |
| 11 | 2004 | 187 | 37 | 2,657 | 6,765 | 801 | 32,517 | 200 |
| 12 | 2005 | 159 | 32 | 2,258 | 6,924 | 833 | 34,776 | 200 |
| 13 | 2006 | 135 | 27 | 1,920 | 7,059 | 860 | 36,695 | 200 |
| 14 | 2007 | 115 | 23 | 1,632 | 7,174 | 883 | 38,327 | 200 |
| 15 | 2008 | 98 | 20 | 1,387 | 7,271 | 903 | 39,714 | 200 |
| 16 | 2009 | 83 | 17 | 1,179 | 7,354 | 919 | 40,893 | 200 |
| 17 | 2010 | 71 | 14 | 1,002 | 7,425 | 933 | 41,895 | 200 |
| 18 | 2011 | 60 | 12 | 852 | 7,485 | 945 | 42,747 | 200 |
| 19 | 2012 | 51 | 10 | 724 | 7,536 | 956 | 43,471 | 200 |
| 20 | 2013 | 43 | 9 | 615 | 7,579 | 964 | 44,086 | 200 |
| 21 | 2014 | 37 | 7 | 523 | 7,616 | 972 | 44,609 | 200 |
| 22 | 2015 | 31 | 6 | 445 | 7,647 | 978 | 45,054 | 200 |
| 23 | 2016 | 27 | 5 | 378 | 7,674 | 983 | 45,432 | 200 |
| 24 | 2017 | 23 | 5 | 321 | 7,696 | 988 | 45,753 | 200 |

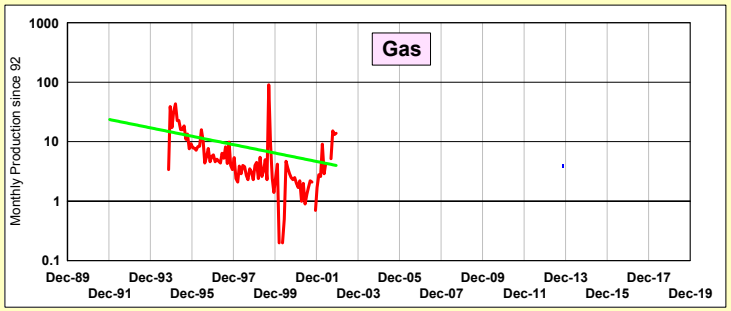
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

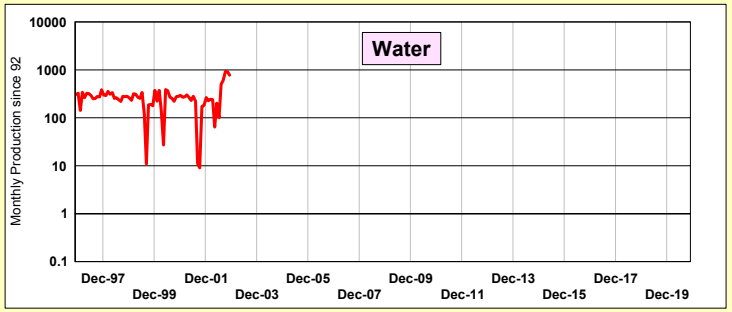
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **OIl**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 200 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 20 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |

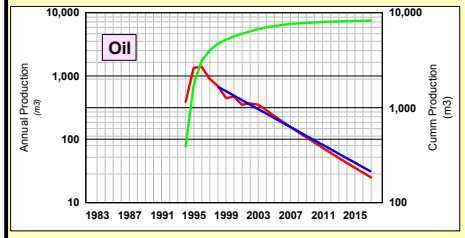


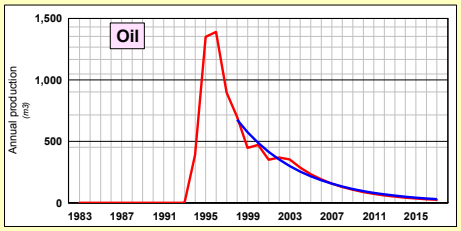



## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Rochester 8-8-I EBR**
TGI Pool: **Rochester 8-8-I EBR Pool**
TGI Field: **Rochester Field**
No of Wells: **2**




**15%** Pool Decline

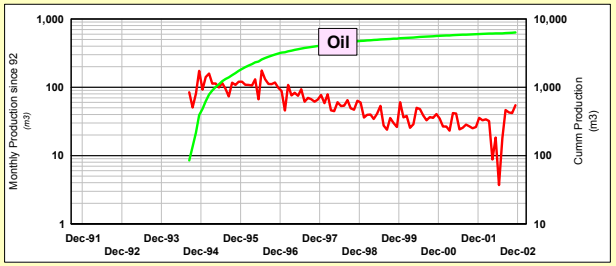
| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

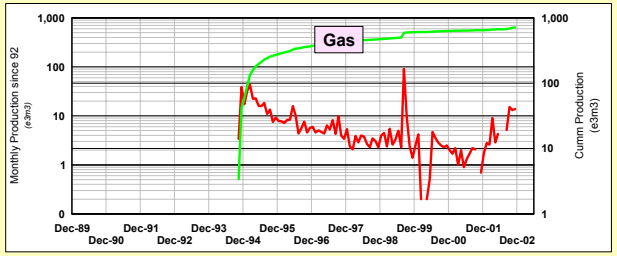
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 370 | m3/yr | 71 | e3m3/yr | 5,116 | m3/yr |
| Cumm to Date: | 6,370 | m3 | 720 | e3m3 | 26,771 | m3 |
| Remaining Recoverable: | 1,867 | m3 | 268 | e3m3 | 20,622 | m3 |
| Total Recovery: | 8,237 | m3 | 988 | e3m3 | 47,393 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 1 | m3/d | 0 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

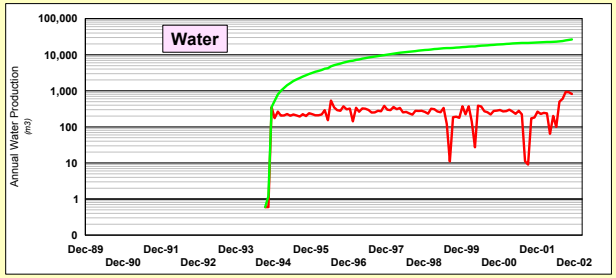
| | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1 | 1994 | 391 | 42 | 355 | 391 | 42 | 355 | 108 |
| 1 | 2 | 1995 | 1,351 | 231 | 2,582 | 1,742 | 273 | 2,937 | 171 |
| 1 | 3 | 1996 | 1,391 | 94 | 3,453 | 3,133 | 367 | 6,390 | 67 |
| 1 | 4 | 1997 | 898 | 66 | 3,454 | 4,031 | 433 | 9,844 | 74 |
| 1 | 5 | 1998 | 698 | 38 | 3,413 | 4,729 | 472 | 13,256 | 55 |
| 1 | 6 | 1999 | 448 | 134 | 2,676 | 5,177 | 605 | 15,932 | 298 |
| 1 | 7 | 2000 | 473 | 26 | 3,205 | 5,649 | 631 | 19,137 | 55 |
| 1 | 8 | 2001 | 351 | 18 | 2,518 | 6,000 | 649 | 21,655 | 51 |
| 2 | 9 | 2002 | 370 | 71 | 5,116 | 6,370 | 720 | 26,771 | 192 |
| | 10 | 2003 | 354 | 44 | 3,532 | 6,724 | 764 | 30,303 | 124 |
| | 11 | 2004 | 287 | 37 | 2,962 | 7,011 | 801 | 33,265 | 130 |
| | 12 | 2005 | 234 | 32 | 2,487 | 7,246 | 833 | 35,752 | 136 |
| | 13 | 2006 | 192 | 27 | 2,091 | 7,437 | 860 | 37,843 | 141 |
| | 14 | 2007 | 157 | 23 | 1,760 | 7,595 | 883 | 39,603 | 146 |
| | 15 | 2008 | 129 | 20 | 1,483 | 7,724 | 903 | 41,087 | 151 |
| | 16 | 2009 | 107 | 17 | 1,251 | 7,831 | 919 | 42,338 | 155 |
| | 17 | 2010 | 88 | 14 | 1,056 | 7,919 | 933 | 43,394 | 160 |
| | 18 | 2011 | 73 | 12 | 892 | 7,993 | 945 | 44,287 | 163 |
| | 19 | 2012 | 61 | 10 | 755 | 8,054 | 956 | 45,041 | 167 |
| | 20 | 2013 | 51 | 9 | 638 | 8,104 | 964 | 45,679 | 170 |
| | 21 | 2014 | 42 | 7 | 540 | 8,147 | 972 | 46,220 | 173 |
| | 22 | 2015 | 36 | 6 | 458 | 8,182 | 978 | 46,677 | 176 |
| | 23 | 2016 | 30 | 5 | 388 | 8,212 | 983 | 47,065 | 179 |
| | 24 | 2017 | 25 | 5 | 328 | 8,237 | 988 | 47,393 | 181 |
| | | To date: | 6,370 | 720 | 26,771 | | | | 0.1130 |

## Monthly Production vs Month
*(1992 to 2002)*

42736



Well No.: **T010536**

Well Name: **TLM No. 1 (Horiz.#1), Rochester 9 - 7 - IEBR**

Status: **Active Well**

MNR Pool: **Rochester 8-8-I EBR**

TGI Pool: **Rochester 8-8-I EBR Pool**

TGI Field: **Rochester Field**

Well: **T010536**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | 0 | last year |
| 2002 Water/Oil ratio: | 3.0328 | m3 per m3 | 3.0328 | last 10 years |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **12** | m3/yr | **0** | e3m3/yr | **37** | m3/yr |
| Cumm to Date: | **12** | m3 | **0** | e3m3 | **37** | m3 |
| Remaining Recoverable: | **529** | m3 | **0** | e3m3 | **1,603** | m3 |
| Total Recovery: | **541** | m3 | **0** | e3m3 | **1,640** | m3 |
| Peak Rate: | 0.4 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 0.4 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.4 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

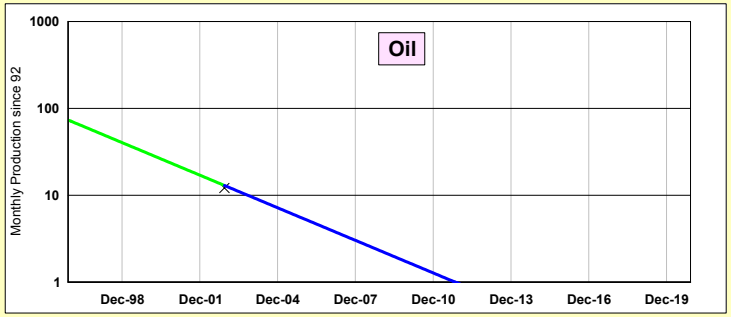
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2001 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2002 | 12 | 0 | 37 | 12 | 0 | 37 | 0 |
| 2 | 2003 | 134 | 0 | 406 | 146 | 0 | 443 | 0 |
| 3 | 2004 | 100 | 0 | 305 | 247 | 0 | 748 | 0 |
| 4 | 2005 | 75 | 0 | 229 | 322 | 0 | 976 | 0 |
| 5 | 2006 | 57 | 0 | 171 | 378 | 0 | 1,148 | 0 |
| 6 | 2007 | 42 | 0 | 129 | 421 | 0 | 1,276 | 0 |
| 7 | 2008 | 32 | 0 | 96 | 453 | 0 | 1,373 | 0 |
| 8 | 2009 | 24 | 0 | 72 | 476 | 0 | 1,445 | 0 |
| 9 | 2010 | 18 | 0 | 54 | 494 | 0 | 1,499 | 0 |
| 10 | 2011 | 13 | 0 | 41 | 508 | 0 | 1,540 | 0 |
| 11 | 2012 | 10 | 0 | 31 | 518 | 0 | 1,570 | 0 |
| 12 | 2013 | 8 | 0 | 23 | 525 | 0 | 1,593 | 0 |
| 13 | 2014 | 6 | 0 | 17 | 531 | 0 | 1,610 | 0 |
| 14 | 2015 | 4 | 0 | 13 | 535 | 0 | 1,623 | 0 |
| 15 | 2016 | 3 | 0 | 10 | 538 | 0 | 1,633 | 0 |
| 16 | 2017 | 2 | 0 | 7 | 541 | 0 | 1,640 | 0 |

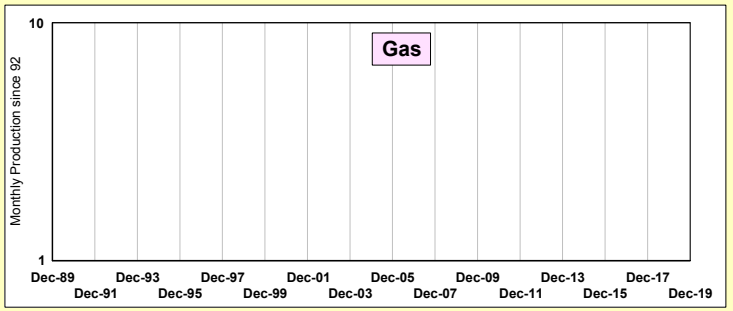
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

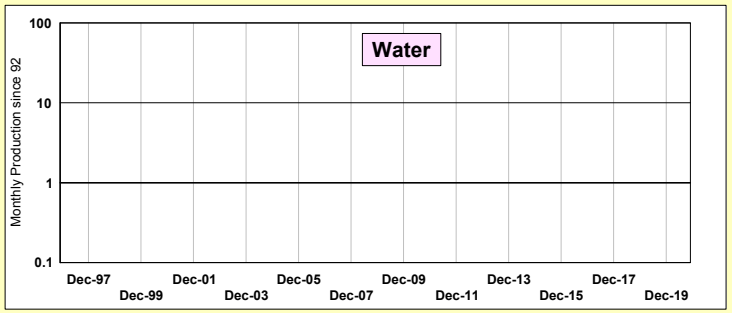
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **OIl**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 13 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T007743**

Well Name:

Status: **Active**

MNR Pool: **Sombra 7-6-VI**

Well: **T007743**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | ERR | m3 per m3 | ERR | last year | |
| 2002 Water/Oil ratio: | ERR | m3 per m3 | ERR | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **290** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **0** | m3 | **7,997** | e3m3 | **0** | m3 |
| Remaining Recoverable: | **0** | m3 | **2,701** | e3m3 | **0** | m3 |
| Total Recovery: | **0** | m3 | **10,699** | e3m3 | **0** | m3 |
| Peak Rate: | 0.0 | m3/d | 4.8 | e3m3/d | based on annual | |
| Peak Rate: | 0.0 | m3/d | 10.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.0 | m3/d | 4.8 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.8 | e3m3/d | | |
| Current decline rate: | 10% | | annually | | | |

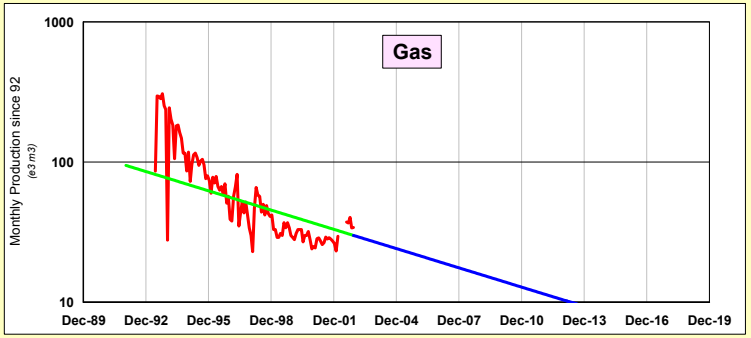
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1993 | 0 | 1,758 | 0 | 0 | 1,758 | 0 | |
| 2 | 1994 | 0 | 1,758 | 0 | 0 | 3,516 | 0 | |
| 3 | 1995 | 0 | 1,177 | 0 | 0 | 4,692 | 0 | |
| 4 | 1996 | 0 | 796 | 0 | 0 | 5,488 | 0 | |
| 5 | 1997 | 0 | 584 | 0 | 0 | 6,072 | 0 | |
| 6 | 1998 | 0 | 550 | 0 | 0 | 6,622 | 0 | |
| 7 | 1999 | 0 | 399 | 0 | 0 | 7,021 | 0 | |
| 8 | 2000 | 0 | 358 | 0 | 0 | 7,379 | 0 | |
| 9 | 2001 | 0 | 328 | 0 | 0 | 7,707 | 0 | |
| 10 | 2002 | 0 | 290 | 0 | 0 | 7,997 | 0 | |
| 11 | 2003 | 0 | 340 | 0 | 0 | 8,337 | 0 | |
| 12 | 2004 | 0 | 306 | 0 | 0 | 8,644 | 0 | |
| 13 | 2005 | 0 | 276 | 0 | 0 | 8,919 | 0 | |
| 14 | 2006 | 0 | 248 | 0 | 0 | 9,167 | 0 | |
| 15 | 2007 | 0 | 223 | 0 | 0 | 9,390 | 0 | |
| 16 | 2008 | 0 | 201 | 0 | 0 | 9,591 | 0 | |
| 17 | 2009 | 0 | 181 | 0 | 0 | 9,772 | 0 | |
| 18 | 2010 | 0 | 163 | 0 | 0 | 9,935 | 0 | |
| 19 | 2011 | 0 | 146 | 0 | 0 | 10,081 | 0 | |
| 20 | 2012 | 0 | 132 | 0 | 0 | 10,213 | 0 | |
| 21 | 2013 | 0 | 119 | 0 | 0 | 10,332 | 0 | |
| 22 | 2014 | 0 | 107 | 0 | 0 | 10,438 | 0 | |
| 23 | 2015 | 0 | 96 | 0 | 0 | 10,534 | 0 | |
| 24 | 2016 | 0 | 86 | 0 | 0 | 10,621 | 0 | |
| 25 | 2017 | 0 | 78 | 0 | 0 | 10,699 | 0 | |

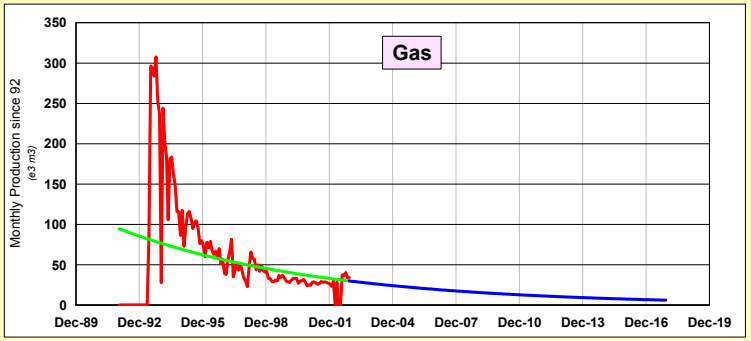
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Gas**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 10000000 | m3/m3 | | | |
| Start: | 30 | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 10% | per year | Decline Rate: | 10% | per year |
| Decline Factor: | **0.0087** | per month | Decline Factor: | **0.0087** | per month |



Well No.: **T008057**

Well Name: **Ram/Talisman #29 (Dev #1)Tilbury North 1-11-IV**

Status: **Active**

MNR Pool: **Tilbury North 1-II-IV**

Well: **T008057**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 1289 | m3 per m3 | 1,224 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0200 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0155 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **220** | m3/yr | **269** | e3m3/yr | **21** | m3/yr |
| Cumm to Date: | **3,983** | m3 | **5,135** | e3m3 | **80** | m3 |
| Remaining Recoverable: | **771** | m3 | **848** | e3m3 | **0** | m3 |
| Total Recovery: | **4,754** | m3 | **5,984** | e3m3 | **80** | m3 |
| Peak Rate: | 2.2 | m3/d | 2.9 | e3m3/d | based on annual | |
| Peak Rate: | 3.3 | m3/d | 11.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.2 | m3/d | 2.4 | e3m3/d | per day based on annual | |
| Current Rate: | 0.6 | m3/d | 0.7 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

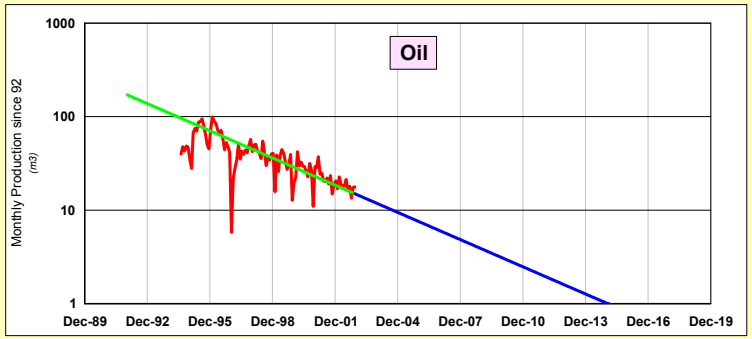
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1994 | 227 | 1,048 | 0 | 227 | 1,048 | 0 | 4,625 |
| 2 | 1995 | 790 | 867 | 0 | 1,016 | 1,915 | 0 | 1,098 |
| 3 | 1996 | 802 | 832 | 10 | 1,818 | 2,747 | 10 | 1,037 |
| 4 | 1997 | 450 | 468 | 40 | 2,268 | 3,215 | 49 | 1,040 |
| 5 | 1998 | 500 | 513 | 1 | 2,768 | 3,729 | 50 | 1,027 |
| 6 | 1999 | 388 | 442 | 0 | 3,156 | 4,171 | 50 | 1,138 |
| 7 | 2000 | 324 | 344 | 3 | 3,480 | 4,514 | 54 | 1,060 |
| 8 | 2001 | 284 | 353 | 5 | 3,764 | 4,867 | 59 | 1,243 |
| 9 | 2002 | 220 | 269 | 21 | 3,983 | 5,135 | 80 | 1,224 |
| 10 | 2003 | 160 | 176 | 0 | 4,143 | 5,311 | 80 | 1,100 |
| 11 | 2004 | 128 | 141 | 0 | 4,271 | 5,452 | 80 | 1,100 |
| 12 | 2005 | 102 | 113 | 0 | 4,373 | 5,564 | 80 | 1,100 |
| 13 | 2006 | 82 | 90 | 0 | 4,455 | 5,654 | 80 | 1,100 |
| 14 | 2007 | 65 | 72 | 0 | 4,521 | 5,726 | 80 | 1,100 |
| 15 | 2008 | 52 | 58 | 0 | 4,573 | 5,784 | 80 | 1,100 |
| 16 | 2009 | 42 | 46 | 0 | 4,615 | 5,830 | 80 | 1,100 |
| 17 | 2010 | 34 | 37 | 0 | 4,648 | 5,867 | 80 | 1,100 |
| 18 | 2011 | 27 | 29 | 0 | 4,675 | 5,897 | 80 | 1,100 |
| 19 | 2012 | 21 | 24 | 0 | 4,697 | 5,920 | 80 | 1,100 |
| 20 | 2013 | 17 | 19 | 0 | 4,714 | 5,939 | 80 | 1,100 |
| 21 | 2014 | 14 | 15 | 0 | 4,728 | 5,954 | 80 | 1,100 |
| 22 | 2015 | 11 | 12 | 0 | 4,739 | 5,966 | 80 | 1,100 |
| 23 | 2016 | 9 | 10 | 0 | 4,747 | 5,976 | 80 | 1,100 |
| 24 | 2017 | 7 | 8 | 0 | 4,754 | 5,984 | 80 | 1,100 |

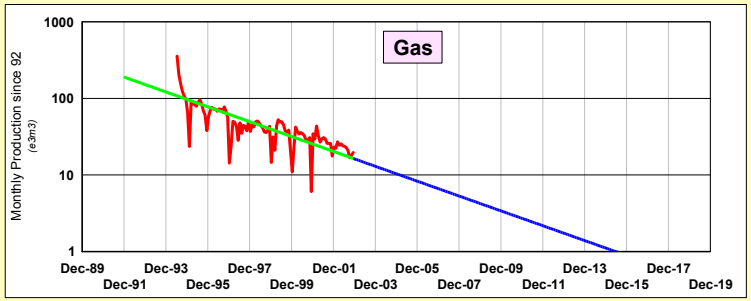
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

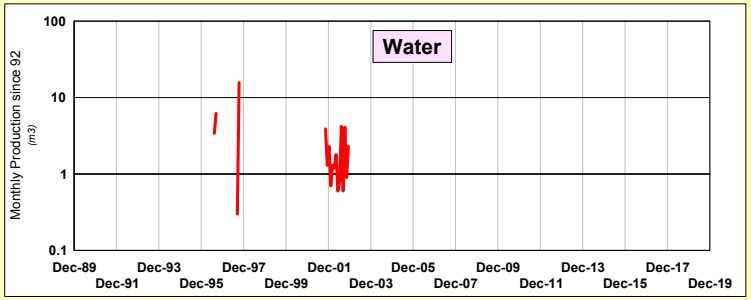
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 1100 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 15 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T0010135**

Well Name: **TLM No. 1 (Horiz #1) Tilbury West 3-2-X**

Status: **Active**

MNR Pool: **Tilbury West 3-2-X**

Well: **T0010135**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | | 0.6443 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **207** | m3/yr | **0** | e3m3/yr | **123** | m3/yr |
| Cumm to Date: | **325** | m3 | **0** | e3m3 | **210** | m3 |
| Remaining Recoverable: | **164** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **489** | m3 | **0** | e3m3 | **210** | m3 |
| Peak Rate: | 0.6 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 2.5 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.6 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.6 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 60% | | annually | | | |

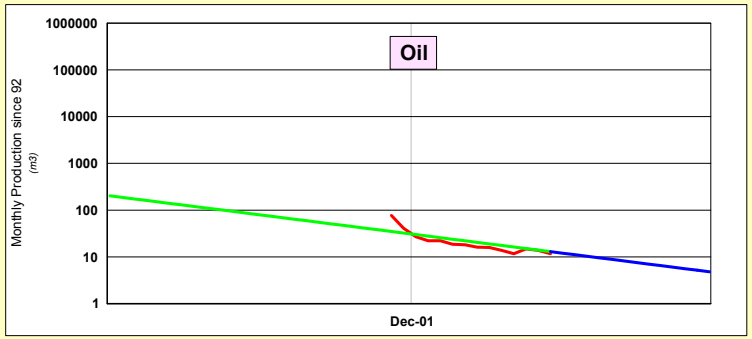
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 2001 | 119 | 0 | 87 | 119 | 0 | 87 | 0 |
| 2 | 2002 | 207 | 0 | 123 | 325 | 0 | 210 | 0 |
| 3 | 2003 | 98 | 0 | 0 | 424 | 0 | 210 | 0 |
| 4 | 2004 | 39 | 0 | 0 | 463 | 0 | 210 | 0 |
| 5 | 2005 | 16 | 0 | 0 | 479 | 0 | 210 | 0 |
| 6 | 2006 | 6 | 0 | 0 | 485 | 0 | 210 | 0 |
| 7 | 2007 | 3 | 0 | 0 | 487 | 0 | 210 | 0 |
| 8 | 2008 | 1 | 0 | 0 | 488 | 0 | 210 | 0 |
| 9 | 2009 | 0 | 0 | 0 | 489 | 0 | 210 | 0 |
| 10 | 2010 | 0 | 0 | 0 | 489 | 0 | 210 | 0 |
| 11 | 2011 | 0 | 0 | 0 | 489 | 0 | 210 | 0 |
| 12 | 2012 | 0 | 0 | 0 | 489 | 0 | 210 | 0 |
| 13 | 2013 | 0 | 0 | 0 | 489 | 0 | 210 | 0 |
| 14 | 2014 | 0 | 0 | 0 | 489 | 0 | 210 | 0 |
| 15 | 2015 | 0 | 0 | 0 | 489 | 0 | 210 | 0 |
| 16 | 2016 | 0 | 0 | 0 | 489 | 0 | 210 | 0 |
| 17 | 2017 | 0 | 0 | 0 | 489 | 0 | 210 | 0 |

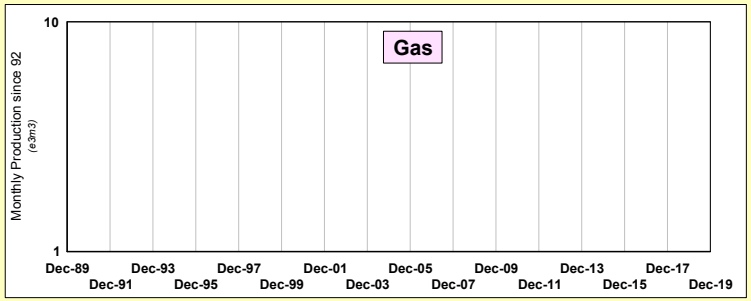
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

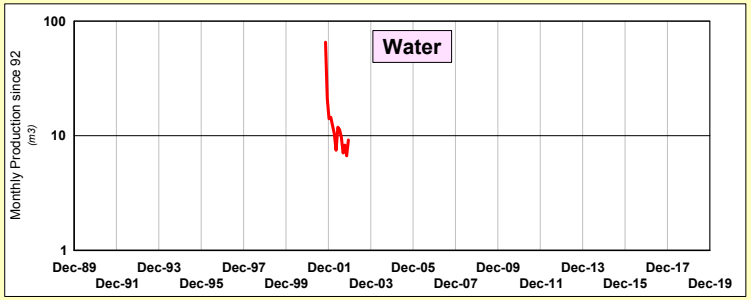
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 13 | m3/mo. |
| Decline Rate: | 60% | per year | Decline Rate: | 60% | per year |
| Decline Factor: | **0.0735** | per month | Decline Factor: | **0.0735** | per month |



Well No.: **T008259**

Well Name: **Pembina et al , Mersea 7 - 1 - VI**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 63 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.2101 | m3 per m3 | 0.1104 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 1.7631 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **482** | m3/yr | **0** | e3m3/yr | **101** | m3/yr |
| Cumm to Date: | **8,236** | m3 | **516** | e3m3 | **909** | m3 |
| Remaining Recoverable: | **2,476** | m3 | **0** | e3m3 | **520** | m3 |
| Total Recovery: | **10,712** | m3 | **516** | e3m3 | **1,429** | m3 |
| Peak Rate: | 5.5 | m3/d | 0.4 | e3m3/d | based on annual | |
| Peak Rate: | 18.4 | m3/d | 1.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 5.5 | m3/d | 0.4 | e3m3/d | per day based on annual | |
| Current Rate: | 1.3 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

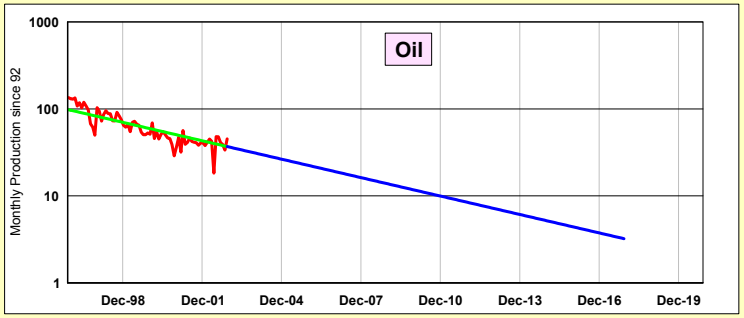
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1995 | 1,684 | 108 | 151 | 1,684 | 108 | 151 | 64 |
| 2 | 1996 | 2,000 | 138 | 119 | 3,684 | 246 | 270 | 69 |
| 3 | 1997 | 1,228 | 115 | 111 | 4,912 | 361 | 381 | 94 |
| 4 | 1998 | 1,025 | 56 | 145 | 5,938 | 416 | 526 | 54 |
| 5 | 1999 | 731 | 20 | 129 | 6,669 | 436 | 655 | 27 |
| 6 | 2000 | 583 | 79 | 64 | 7,252 | 516 | 719 | 136 |
| 7 | 2001 | 503 | 0 | 89 | 7,754 | 516 | 808 | 0 |
| 8 | 2002 | 482 | 0 | 101 | 8,236 | 516 | 909 | 0 |
| 9 | 2003 | 407 | 0 | 86 | 8,643 | 516 | 994 | 0 |
| 10 | 2004 | 346 | 0 | 73 | 8,989 | 516 | 1,067 | 0 |
| 11 | 2005 | 294 | 0 | 62 | 9,283 | 516 | 1,129 | 0 |
| 12 | 2006 | 250 | 0 | 53 | 9,533 | 516 | 1,181 | 0 |
| 13 | 2007 | 212 | 0 | 45 | 9,745 | 516 | 1,226 | 0 |
| 14 | 2008 | 181 | 0 | 38 | 9,926 | 516 | 1,264 | 0 |
| 15 | 2009 | 154 | 0 | 32 | 10,080 | 516 | 1,296 | 0 |
| 16 | 2010 | 130 | 0 | 27 | 10,210 | 516 | 1,324 | 0 |
| 17 | 2011 | 111 | 0 | 23 | 10,321 | 516 | 1,347 | 0 |
| 18 | 2012 | 94 | 0 | 20 | 10,415 | 516 | 1,367 | 0 |
| 19 | 2013 | 80 | 0 | 17 | 10,495 | 516 | 1,384 | 0 |
| 20 | 2014 | 68 | 0 | 14 | 10,563 | 516 | 1,398 | 0 |
| 21 | 2015 | 58 | 0 | 12 | 10,621 | 516 | 1,410 | 0 |
| 22 | 2016 | 49 | 0 | 10 | 10,671 | 516 | 1,421 | 0 |
| 23 | 2017 | 42 | 0 | 9 | 10,712 | 516 | 1,429 | 0 |

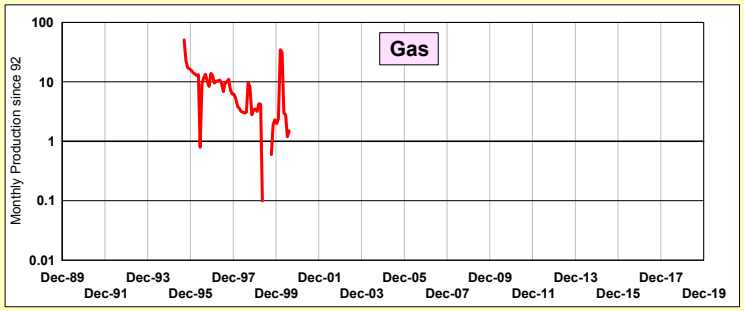
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

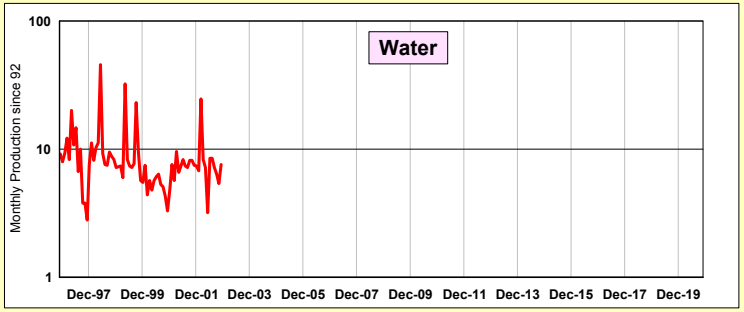
## Monthly Production vs Month + Forecast
*(since 1992)*

0 **Basis--->** **Oil** 40.1

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 37 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T007892**

Well Name: **Telesis et al 34629, Mersea 2 - 1 - V**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 337 | m3 per m3 | 325 | last year | |
| 2002 Water/Oil ratio: | 5.1033 | m3 per m3 | 7.3383 | last 10 years | |
| 2002 Water/ Gas Ratio: | 15.7184 | m3 per e3m3 | 21.7942 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **439** | m3/yr | **142** | e3m3/yr | **2,238** | m3/yr |
| Cumm to Date: | **2,164** | m3 | **729** | e3m3 | **15,877** | m3 |
| Remaining Recoverable: | **1,423** | m3 | **463** | e3m3 | **7,263** | m3 |
| Total Recovery: | **3,587** | m3 | **1,191** | e3m3 | **23,140** | m3 |
| Peak Rate: | 1.7 | m3/d | 0.5 | e3m3/d | based on annual | |
| Peak Rate: | 4.5 | m3/d | 1.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.4 | m3/d | 0.4 | e3m3/d | per day based on annual | |
| Current Rate: | 1.2 | m3/d | 0.4 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

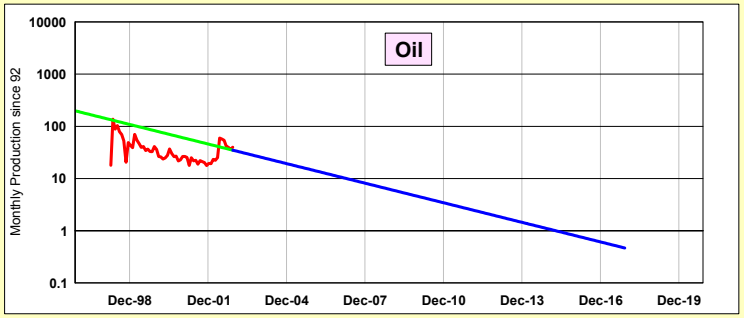
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1998 | 618 | 188 | 3,978 | 618 | 188 | 3,978 | 304 |
| 2 | 1999 | 512 | 156 | 4,463 | 1,130 | 344 | 8,441 | 305 |
| 3 | 2000 | 329 | 142 | 2,975 | 1,459 | 486 | 11,416 | 431 |
| 4 | 2001 | 266 | 101 | 2,223 | 1,725 | 586 | 13,639 | 379 |
| 5 | 2002 | 439 | 142 | 2,238 | 2,164 | 729 | 15,877 | 325 |
| 6 | 2003 | 361 | 117 | 1,840 | 2,524 | 846 | 17,717 | 325 |
| 7 | 2004 | 270 | 88 | 1,380 | 2,795 | 934 | 19,098 | 325 |
| 8 | 2005 | 203 | 66 | 1,035 | 2,998 | 1,000 | 20,133 | 325 |
| 9 | 2006 | 152 | 49 | 776 | 3,150 | 1,049 | 20,909 | 325 |
| 10 | 2007 | 114 | 37 | 582 | 3,264 | 1,086 | 21,492 | 325 |
| 11 | 2008 | 86 | 28 | 437 | 3,349 | 1,114 | 21,928 | 325 |
| 12 | 2009 | 64 | 21 | 328 | 3,414 | 1,135 | 22,256 | 325 |
| 13 | 2010 | 48 | 16 | 246 | 3,462 | 1,150 | 22,502 | 325 |
| 14 | 2011 | 36 | 12 | 184 | 3,498 | 1,162 | 22,686 | 325 |
| 15 | 2012 | 27 | 9 | 138 | 3,525 | 1,171 | 22,824 | 325 |
| 16 | 2013 | 20 | 7 | 104 | 3,545 | 1,178 | 22,928 | 325 |
| 17 | 2014 | 15 | 5 | 78 | 3,560 | 1,182 | 23,005 | 325 |
| 18 | 2015 | 11 | 4 | 58 | 3,572 | 1,186 | 23,064 | 325 |
| 19 | 2016 | 9 | 3 | 44 | 3,580 | 1,189 | 23,107 | 325 |
| 20 | 2017 | 6 | 2 | 33 | 3,587 | 1,191 | 23,140 | 325 |

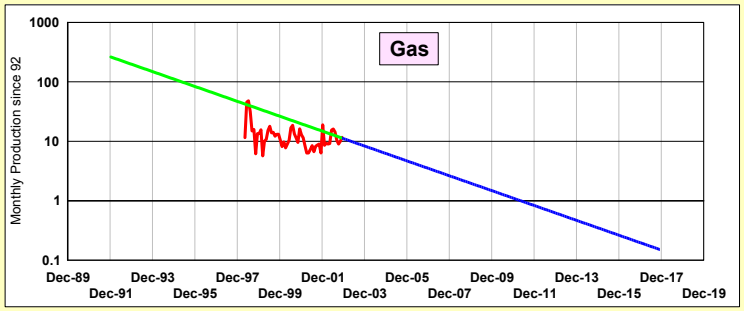
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

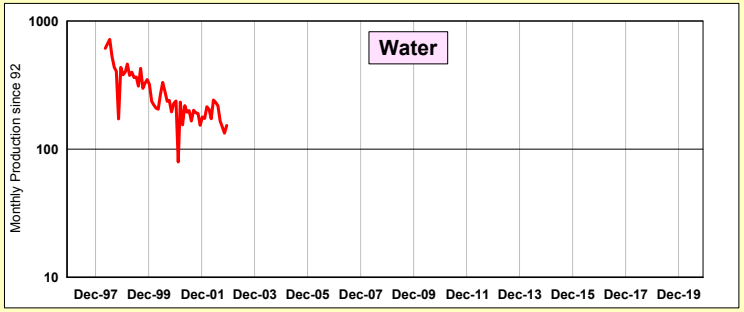
## Monthly Production vs Month + Forecast
*(since 1992)*

324.669403 **Basis--->** **Oil** 36.5

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 325 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 35 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T007824**

Well Name: **Telesis 34537, Gosfield North 6 - 23 - VI**

Status: **Abandoned Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 17 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 1.9859 | m3 per m3 | 1.0250 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 60.8736 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **431** | m3/yr | **0** | e3m3/yr | **856** | m3/yr |
| Cumm to Date: | **8,189** | m3 | **138** | e3m3 | **8,394** | m3 |
| Remaining Recoverable: | **1,726** | m3 | **0** | e3m3 | **3,428** | m3 |
| Total Recovery: | **9,915** | m3 | **138** | e3m3 | **11,821** | m3 |
| Peak Rate: | 4.5 | m3/d | 0.3 | e3m3/d | based on annual | |
| Peak Rate: | 11.9 | m3/d | 0.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.7 | m3/d | 0.3 | e3m3/d | per day based on annual | |
| Current Rate: | 1.2 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 22% | | annually | | | |

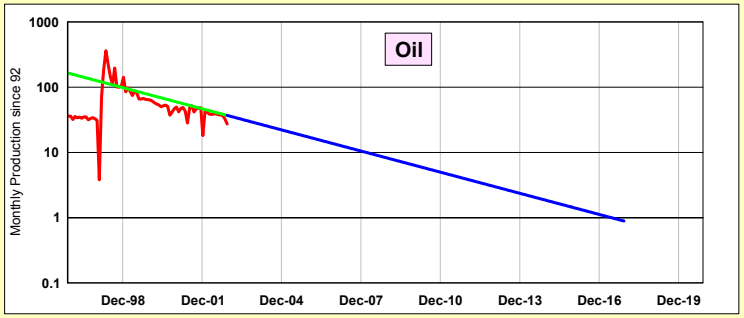
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1991 | 426 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 1992 | 1,350 | 109 | 782 | 1,350 | 109 | 782 | 81 |
| 3 | 1993 | 703 | 29 | 590 | 2,053 | 138 | 1,372 | 41 |
| 4 | 1994 | 563 | 0 | 536 | 2,617 | 138 | 1,908 | 0 |
| 5 | 1995 | 492 | 0 | 472 | 3,108 | 138 | 2,380 | 0 |
| 6 | 1996 | 451 | 0 | 440 | 3,559 | 138 | 2,820 | 0 |
| 7 | 1997 | 408 | 0 | 407 | 3,967 | 138 | 3,227 | 0 |
| 8 | 1998 | 1,638 | 0 | 1,147 | 5,605 | 138 | 4,374 | 0 |
| 9 | 1999 | 984 | 0 | 1,194 | 6,589 | 138 | 5,568 | 0 |
| 10 | 2000 | 623 | 0 | 998 | 7,213 | 138 | 6,566 | 0 |
| 11 | 2001 | 545 | 0 | 972 | 7,758 | 138 | 7,538 | 0 |
| 12 | 2002 | 431 | 0 | 856 | 8,189 | 138 | 8,394 | 0 |
| 13 | 2003 | 389 | 0 | 773 | 8,578 | 138 | 9,167 | 0 |
| 14 | 2004 | 303 | 0 | 603 | 8,882 | 138 | 9,769 | 0 |
| 15 | 2005 | 237 | 0 | 470 | 9,118 | 138 | 10,239 | 0 |
| 16 | 2006 | 185 | 0 | 367 | 9,303 | 138 | 10,606 | 0 |
| 17 | 2007 | 144 | 0 | 286 | 9,447 | 138 | 10,892 | 0 |
| 18 | 2008 | 112 | 0 | 223 | 9,559 | 138 | 11,115 | 0 |
| 19 | 2009 | 88 | 0 | 174 | 9,647 | 138 | 11,289 | 0 |
| 20 | 2010 | 68 | 0 | 136 | 9,715 | 138 | 11,425 | 0 |
| 21 | 2011 | 53 | 0 | 106 | 9,769 | 138 | 11,531 | 0 |
| 22 | 2012 | 42 | 0 | 83 | 9,810 | 138 | 11,613 | 0 |
| 23 | 2013 | 32 | 0 | 64 | 9,843 | 138 | 11,678 | 0 |
| 24 | 2014 | 25 | 0 | 50 | 9,868 | 138 | 11,728 | 0 |
| 25 | 2015 | 20 | 0 | 39 | 9,888 | 138 | 11,767 | 0 |
| 26 | 2016 | 15 | 0 | 31 | 9,903 | 138 | 11,798 | 0 |
| 27 | 2017 | 12 | 0 | 24 | 9,915 | 138 | 11,821 | 0 |

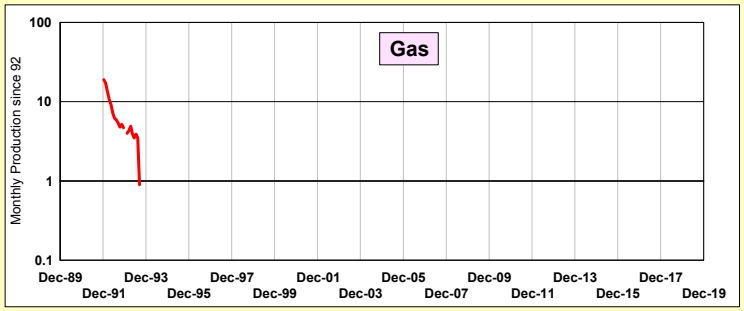
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

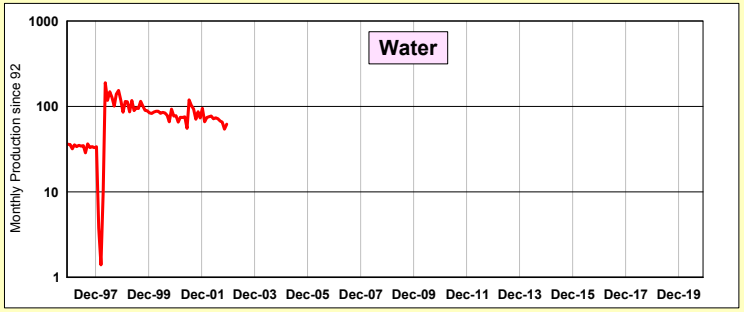
## Monthly Production vs Month + Forecast
*(since 1992)*

0 **Basis--->** **Oil** 35.9

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 37 | m3/mo. |
| Decline Rate: | 22% | per year | Decline Rate: | 22% | per year |
| Decline Factor: | 0.0205 | per month | Decline Factor: | 0.0205 | per month |



Well No.: **T007582**

Well Name: **Telesis 34541, Gosfield North 8 - 20 - VII**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 24 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 4.7789 | m3 per m3 | 3.7173 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 151.9485 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **794** | m3/yr | **0** | e3m3/yr | **3,793** | m3/yr |
| Cumm to Date: | **8,614** | m3 | **154** | e3m3 | **23,342** | m3 |
| Remaining Recoverable: | **2,570** | m3 | **0** | e3m3 | **12,283** | m3 |
| Total Recovery: | **11,184** | m3 | **154** | e3m3 | **35,625** | m3 |
| Peak Rate: | 4.2 | m3/d | 0.2 | e3m3/d | based on annual | |
| Peak Rate: | 6.1 | m3/d | 0.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.2 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 2.2 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

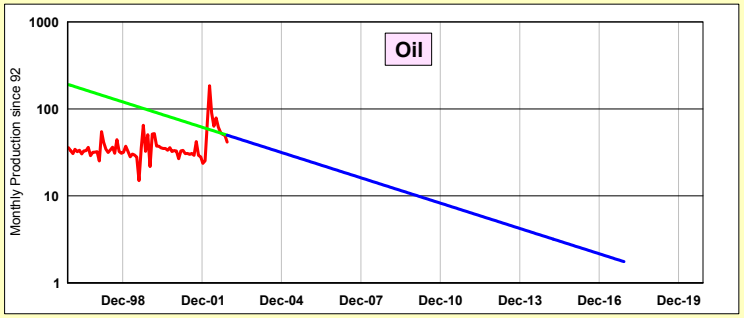
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1990 | 1,523 | 0 | 0 | 1,523 | 0 | 0 | 0 |
| 2 | 1991 | 812 | 0 | 0 | 2,334 | 0 | 0 | 0 |
| 3 | 1992 | 1,103 | 74 | 2,738 | 3,438 | 74 | 2,738 | 67 |
| 4 | 1993 | 866 | 56 | 2,527 | 4,303 | 130 | 5,264 | 65 |
| 5 | 1994 | 611 | 19 | 2,170 | 4,914 | 149 | 7,435 | 31 |
| 6 | 1995 | 426 | 5 | 1,858 | 5,340 | 154 | 9,292 | 11 |
| 7 | 1996 | 427 | 0 | 1,695 | 5,767 | 154 | 10,987 | 0 |
| 8 | 1997 | 390 | 0 | 1,667 | 6,156 | 154 | 12,654 | 0 |
| 9 | 1998 | 429 | 0 | 1,653 | 6,585 | 154 | 14,307 | 0 |
| 10 | 1999 | 416 | 0 | 1,776 | 7,001 | 154 | 16,083 | 0 |
| 11 | 2000 | 441 | 0 | 2,002 | 7,443 | 154 | 18,085 | 0 |
| 12 | 2001 | 377 | 0 | 1,464 | 7,820 | 154 | 19,549 | 0 |
| 13 | 2002 | 794 | 0 | 3,793 | 8,614 | 154 | 23,342 | 0 |
| 14 | 2003 | 533 | 0 | 2,546 | 9,146 | 154 | 25,888 | 0 |
| 15 | 2004 | 426 | 0 | 2,037 | 9,573 | 154 | 27,925 | 0 |
| 16 | 2005 | 341 | 0 | 1,630 | 9,914 | 154 | 29,555 | 0 |
| 17 | 2006 | 273 | 0 | 1,304 | 10,186 | 154 | 30,858 | 0 |
| 18 | 2007 | 218 | 0 | 1,043 | 10,405 | 154 | 31,901 | 0 |
| 19 | 2008 | 175 | 0 | 834 | 10,579 | 154 | 32,736 | 0 |
| 20 | 2009 | 140 | 0 | 667 | 10,719 | 154 | 33,403 | 0 |
| 21 | 2010 | 112 | 0 | 534 | 10,831 | 154 | 33,937 | 0 |
| 22 | 2011 | 89 | 0 | 427 | 10,920 | 154 | 34,364 | 0 |
| 23 | 2012 | 72 | 0 | 342 | 10,992 | 154 | 34,706 | 0 |
| 24 | 2013 | 57 | 0 | 273 | 11,049 | 154 | 34,979 | 0 |
| 25 | 2014 | 46 | 0 | 219 | 11,095 | 154 | 35,198 | 0 |
| 26 | 2015 | 37 | 0 | 175 | 11,131 | 154 | 35,373 | 0 |
| 27 | 2016 | 29 | 0 | 140 | 11,160 | 154 | 35,513 | 0 |
| 28 | 2017 | 23 | 0 | 112 | 11,184 | 154 | 35,625 | 0 |

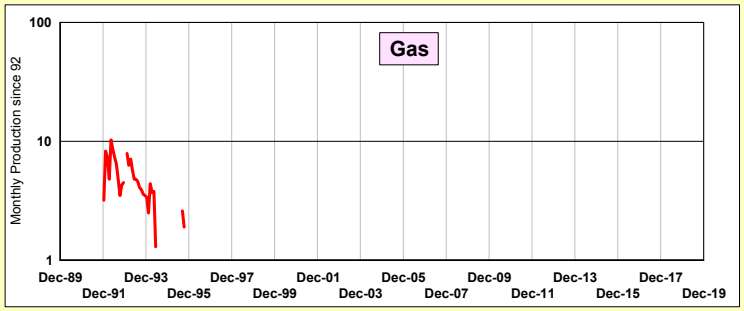
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

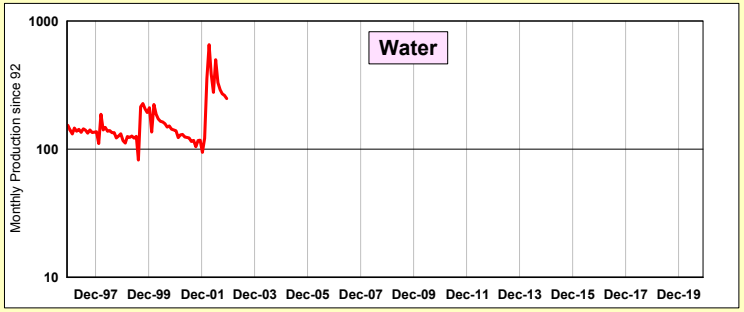
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil** 66.1

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 50 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T007540**

Well Name: **Telesis 34539, Gosfield North 2 - 21 - VI**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 5 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 4.0346 | m3 per m3 | 3.0751 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 627.3720 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **437** | m3/yr | **0** | e3m3/yr | **1,762** | m3/yr |
| Cumm to Date: | **7,791** | m3 | **27** | e3m3 | **16,814** | m3 |
| Remaining Recoverable: | **3,383** | m3 | **0** | e3m3 | **13,649** | m3 |
| Total Recovery: | **11,173** | m3 | **27** | e3m3 | **30,462** | m3 |
| Peak Rate: | 3.7 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 4.8 | m3/d | 0.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.6 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 1.2 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 5% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1990 | 1,369 | 0 | 0 | 1,369 | 0 | 0 | |
| 2 | 1991 | 954 | 0 | 0 | 2,323 | 0 | 0 | 0 |
| 3 | 1992 | 1,057 | 27 | 2,117 | 3,380 | 27 | 2,117 | 25 |
| 4 | 1993 | 594 | 0 | 1,757 | 3,974 | 27 | 3,874 | 0 |
| 5 | 1994 | 558 | 0 | 1,541 | 4,532 | 27 | 5,415 | 0 |
| 6 | 1995 | 454 | 0 | 1,423 | 4,986 | 27 | 6,838 | 0 |
| 7 | 1996 | 447 | 0 | 1,384 | 5,433 | 27 | 8,221 | 0 |
| 8 | 1997 | 430 | 0 | 1,362 | 5,863 | 27 | 9,584 | 0 |
| 9 | 1998 | 411 | 0 | 1,263 | 6,275 | 27 | 10,847 | 0 |
| 10 | 1999 | 386 | 0 | 1,243 | 6,661 | 27 | 12,090 | 0 |
| 11 | 2000 | 352 | 0 | 1,795 | 7,013 | 27 | 13,884 | 0 |
| 12 | 2001 | 341 | 0 | 1,168 | 7,354 | 27 | 15,052 | 0 |
| 13 | 2002 | 437 | 0 | 1,762 | 7,791 | 27 | 16,814 | 0 |
| 14 | 2003 | 315 | 0 | 1,272 | 8,106 | 27 | 18,085 | 0 |
| 15 | 2004 | 299 | 0 | 1,208 | 8,405 | 27 | 19,293 | 0 |
| 16 | 2005 | 284 | 0 | 1,148 | 8,689 | 27 | 20,441 | 0 |
| 17 | 2006 | 270 | 0 | 1,090 | 8,960 | 27 | 21,531 | 0 |
| 18 | 2007 | 257 | 0 | 1,036 | 9,216 | 27 | 22,566 | 0 |
| 19 | 2008 | 244 | 0 | 984 | 9,460 | 27 | 23,550 | 0 |
| 20 | 2009 | 232 | 0 | 935 | 9,692 | 27 | 24,485 | 0 |
| 21 | 2010 | 220 | 0 | 888 | 9,912 | 27 | 25,373 | 0 |
| 22 | 2011 | 209 | 0 | 844 | 10,121 | 27 | 26,216 | 0 |
| 23 | 2012 | 199 | 0 | 801 | 10,320 | 27 | 27,018 | 0 |
| 24 | 2013 | 189 | 0 | 761 | 10,508 | 27 | 27,779 | 0 |
| 25 | 2014 | 179 | 0 | 723 | 10,688 | 27 | 28,502 | 0 |
| 26 | 2015 | 170 | 0 | 687 | 10,858 | 27 | 29,189 | 0 |
| 27 | 2016 | 162 | 0 | 653 | 11,020 | 27 | 29,842 | 0 |
| 28 | 2017 | 154 | 0 | 620 | 11,173 | 27 | 30,462 | 0 |

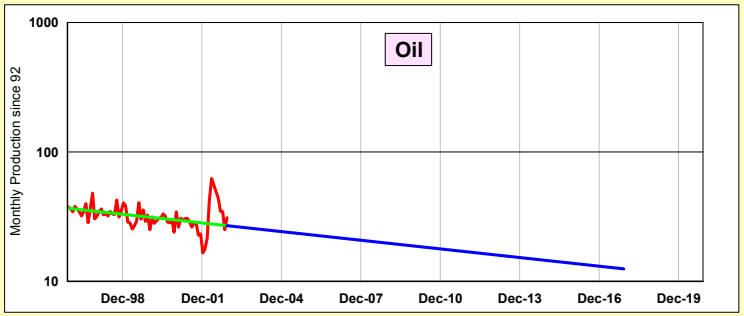
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

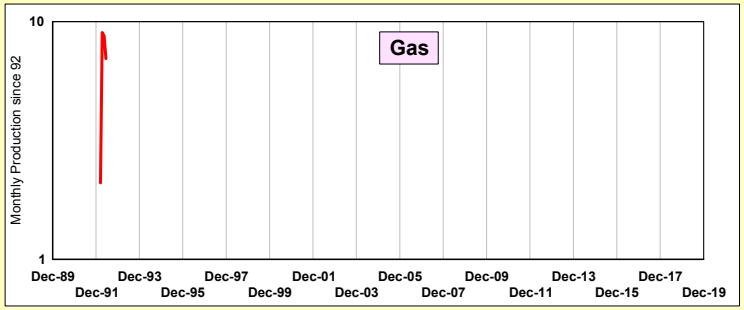
Revised May 27th 2004

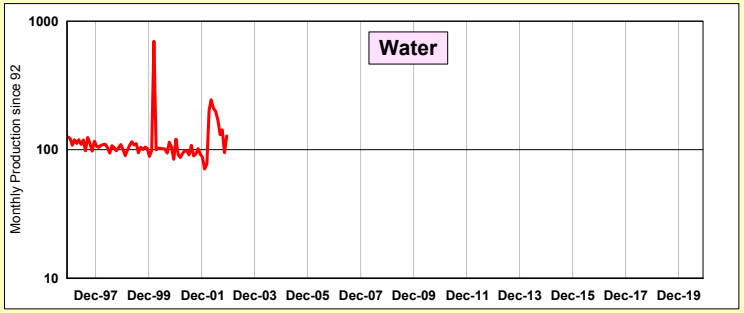
## Monthly Production vs Month + Forecast
*(since 1992)*

200 **Basis--->** **Oil** 36.4

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 27 | m3/mo. |
| Decline Rate: | 5% | per year | Decline Rate: | 5% | per year |
| Decline Factor: | **0.0043** | per month | Decline Factor: | **0.0043** | per month |

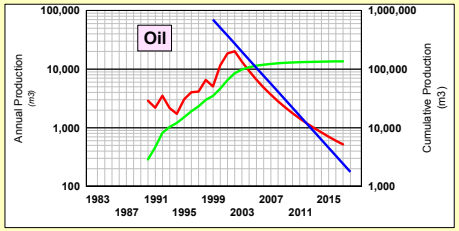


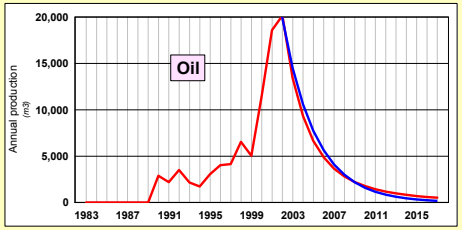



## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Gosfield N. 2-21-VI**
TGI Pool: **Wigle-Olinda Pool**
TGI Field: **Wigle-Olinda Field**
No of Wells: **15**




**27%** Pool Decline

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

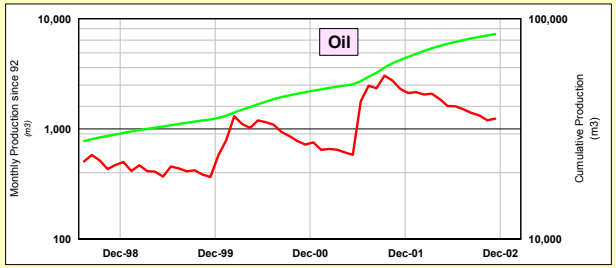
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 20,160 | m3/yr | 2,300 | e3m3/yr | 28,667 | m3/yr |
| Cumm to Date: | 85,189 | m3 | 7,008 | e3m3 | 113,116 | m3 |
| Remaining Recoverable: | 51,077 | m3 | 6,807 | e3m3 | 82,831 | m3 |
| Total Recovery: | 136,265 | m3 | 13,815 | e3m3 | 195,946 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 55 | m3/d | 6 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

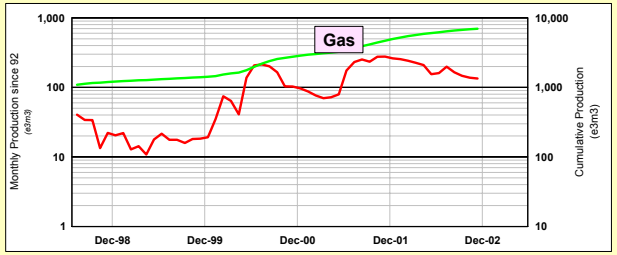
| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2 | 1 | 1990 | 2,891 | 0 | 0 | 2,891 | 0 | 0 | |
| 3 | 2 | 1991 | 2,192 | 0 | 0 | 4,657 | 0 | 0 | |
| 3 | 3 | 1992 | 3,511 | 210 | 5,637 | 8,168 | 210 | 5,637 | |
| 3 | 4 | 1993 | 2,162 | 85 | 4,874 | 10,330 | 295 | 10,511 | 39 |
| 3 | 5 | 1994 | 1,732 | 19 | 4,247 | 12,062 | 314 | 14,758 | 11 |
| 4 | 6 | 1995 | 3,056 | 113 | 3,903 | 15,118 | 426 | 18,661 | 37 |
| 5 | 7 | 1996 | 4,034 | 226 | 3,826 | 19,152 | 652 | 22,487 | 56 |
| 6 | 8 | 1997 | 4,143 | 202 | 3,841 | 23,295 | 854 | 26,328 | 49 |
| 8 | 9 | 1998 | 6,554 | 343 | 8,495 | 29,849 | 1,197 | 34,822 | 52 |
| 9 | 10 | 1999 | 5,053 | 208 | 9,697 | 34,902 | 1,405 | 44,520 | 41 |
| 11 | 11 | 2000 | 11,528 | 1,369 | 18,531 | 46,430 | 2,774 | 63,051 | 119 |
| 15 | 12 | 2001 | 18,598 | 1,934 | 21,398 | 65,028 | 4,708 | 84,449 | 104 |
| 15 | 13 | 2002 | 20,160 | 2,300 | 28,667 | 85,189 | 7,008 | 113,116 | 114 |
| | 14 | 2003 | 13,422 | 2,140 | 19,806 | 98,611 | 9,148 | 132,922 | 159 |
| | 15 | 2004 | 9,324 | 1,406 | 14,272 | 107,935 | 10,554 | 147,193 | 151 |
| | 16 | 2005 | 6,658 | 942 | 10,544 | 114,593 | 11,495 | 157,738 | 141 |
| | 17 | 2006 | 4,884 | 644 | 7,976 | 119,477 | 12,139 | 165,714 | 132 |
| | 18 | 2007 | 3,674 | 449 | 6,166 | 123,152 | 12,588 | 171,880 | 122 |
| | 19 | 2008 | 2,829 | 321 | 4,863 | 125,980 | 12,909 | 176,743 | 113 |
| | 20 | 2009 | 2,223 | 234 | 3,905 | 128,203 | 13,142 | 180,648 | 105 |
| | 21 | 2010 | 1,778 | 174 | 3,188 | 129,981 | 13,316 | 183,837 | 98 |
| | 22 | 2011 | 1,444 | 132 | 2,642 | 131,425 | 13,448 | 186,479 | 91 |
| | 23 | 2012 | 1,189 | 101 | 2,219 | 132,614 | 13,549 | 188,698 | 85 |
| | 24 | 2013 | 990 | 79 | 1,887 | 133,604 | 13,628 | 190,585 | 80 |
| | 25 | 2014 | 832 | 63 | 1,623 | 134,437 | 13,691 | 192,208 | 75 |
| | 26 | 2015 | 706 | 50 | 1,410 | 135,143 | 13,741 | 193,617 | 71 |
| | 27 | 2016 | 603 | 41 | 1,236 | 135,746 | 13,782 | 194,853 | 67 |
| | 28 | 2017 | 519 | 33 | 1,093 | 136,265 | 13,815 | 195,946 | 64 |
| | | To date: | 85,615 | 7,008 | 113,116 | | | | 0.0870 |

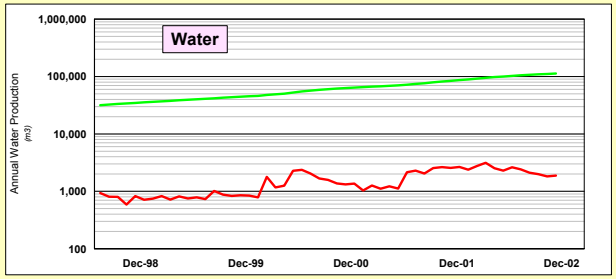
revised May 27th 2004

## Monthly Production vs Month
*(1992 to 2002)*

42736



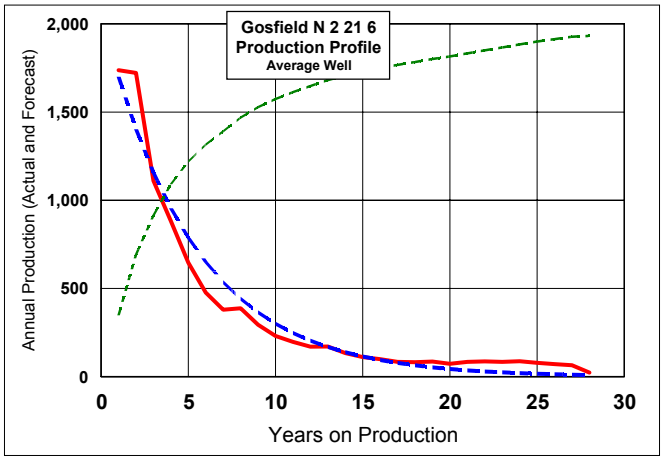
# Gosfield N. 2-21-VI

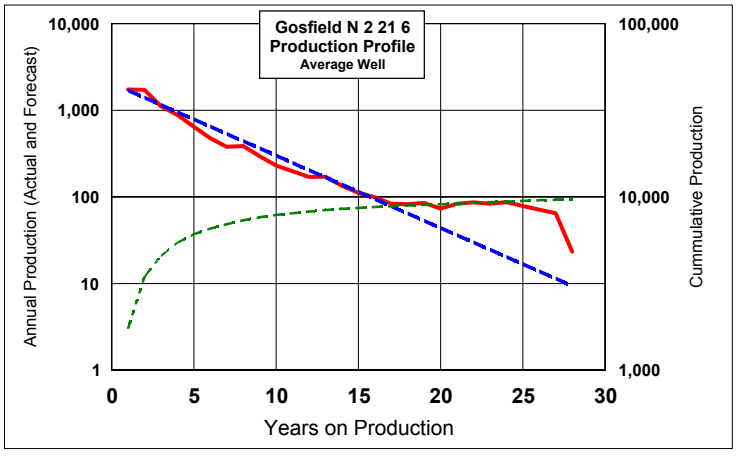
# Average Well

GOR: 100
WOR: 1.327

| Prod Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|
| 1 | 1,700 | 170 | 2,256 | 1,700 | 170 | 2,256 | 100 |
| 2 | 1,403 | 140 | 1,861 | 3,103 | 310 | 4,116 | 100 |
| 3 | 1,157 | 116 | 1,535 | 4,260 | 426 | 5,652 | 100 |
| 4 | 955 | 95 | 1,267 | 5,214 | 521 | 6,918 | 100 |
| 5 | 788 | 79 | 1,045 | 6,002 | 600 | 7,963 | 100 |
| 6 | 650 | 65 | 862 | 6,651 | 665 | 8,825 | 100 |
| 7 | 536 | 54 | 711 | 7,187 | 719 | 9,536 | 100 |
| 8 | 442 | 44 | 587 | 7,630 | 763 | 10,123 | 100 |
| 9 | 365 | 36 | 484 | 7,994 | 799 | 10,607 | 100 |
| 10 | 301 | 30 | 399 | 8,295 | 830 | 11,006 | 100 |
| 11 | 248 | 25 | 329 | 8,544 | 854 | 11,336 | 100 |
| 12 | 205 | 20 | 272 | 8,749 | 875 | 11,608 | 100 |
| 13 | 169 | 17 | 224 | 8,918 | 892 | 11,832 | 100 |
| 14 | 139 | 14 | 185 | 9,057 | 906 | 12,017 | 100 |
| 15 | 115 | 12 | 153 | 9,172 | 917 | 12,169 | 100 |
| 16 | 95 | 9 | 126 | 9,267 | 927 | 12,295 | 100 |
| 17 | 78 | 8 | 104 | 9,345 | 935 | 12,399 | 100 |
| 18 | 65 | 6 | 86 | 9,410 | 941 | 12,485 | 100 |
| 19 | 53 | 5 | 71 | 9,463 | 946 | 12,556 | 100 |
| 20 | 44 | 4 | 58 | 9,507 | 951 | 12,614 | 100 |
| 21 | 36 | 4 | 48 | 9,543 | 954 | 12,662 | 100 |
| 22 | 30 | 3 | 40 | 9,573 | 957 | 12,702 | 100 |
| 23 | 25 | 2 | 33 | 9,598 | 960 | 12,735 | 100 |
| 24 | 20 | 2 | 27 | 9,618 | 962 | 12,762 | 100 |
| 25 | 17 | 2 | 22 | 9,635 | 964 | 12,784 | 100 |
| 26 | 14 | 1 | 18 | 9,649 | 965 | 12,802 | 100 |
| 27 | 11 | 1 | 15 | 9,660 | 966 | 12,817 | 100 |
| 28 | 9 | 1 | 13 | 9,670 | 967 | 12,830 | 100 |
| 29 | 8 | 1 | 10 | 9,678 | 968 | 12,840 | 100 |
| 30 | 6 | 1 | 9 | 9,684 | 968 | 12,849 | 100 |
| 31 | 5 | 1 | 7 | 9,689 | 969 | 12,856 | 100 |
| 32 | 4 | 0 | 6 | 9,694 | 969 | 12,862 | 100 |
| | 9,694 | 969 | 12,862 | | | | |

| Average Well Oil | | |
|---|---|---|
| Start: | 1700 | m3 per year |
| Decline Rate | 17.5% | per year |
| Decline Facto | 0.0159 | per month |
| Recovery | 9,694 | m3 |



Well No.: **T010083**

Well Name: **TLM No.2 (Horiz.#1), Gosfield North 1 - 21 - VI**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 110 | m3 per m3 | 138 | last year | |
| 2002 Water/Oil ratio: | 1.3393 | m3 per m3 | 0.9682 | last 10 years | |
| 2002 Water/ Gas Ratio: | 9.7281 | m3 per e3m3 | 8.8284 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **2,097** | m3/yr | **289** | e3m3/yr | **2,809** | m3/yr |
| Cumm to Date: | **4,241** | m3 | **465** | e3m3 | **4,106** | m3 |
| Remaining Recoverable: | **9,371** | m3 | **1,312** | e3m3 | **12,550** | m3 |
| Total Recovery: | **13,611** | m3 | **1,777** | e3m3 | **16,656** | m3 |
| Peak Rate: | 5.9 | m3/d | 0.8 | e3m3/d | based on annual | |
| Peak Rate: | 32.3 | m3/d | 3.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 5.7 | m3/d | 0.8 | e3m3/d | per day based on annual | |
| Current Rate: | 5.7 | m3/d | 0.8 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

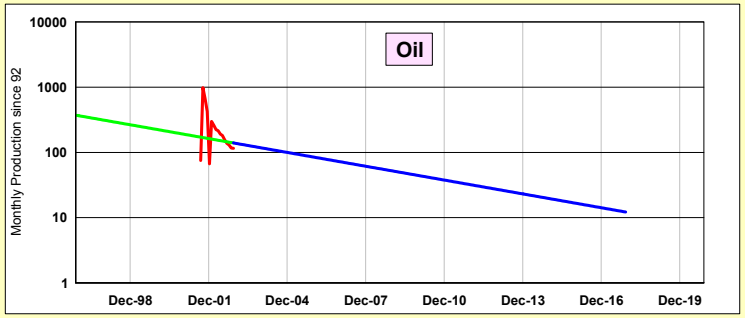
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 2001 | 2,144 | 176 | 1,298 | 2,144 | 176 | 1,298 | 82 |
| 2 | 2002 | 2,097 | 289 | 2,809 | 4,241 | 465 | 4,106 | 138 |
| 3 | 2003 | 1,540 | 216 | 2,063 | 5,781 | 681 | 6,169 | 140 |
| 4 | 2004 | 1,309 | 183 | 1,753 | 7,090 | 864 | 7,922 | 140 |
| 5 | 2005 | 1,113 | 156 | 1,490 | 8,203 | 1,020 | 9,412 | 140 |
| 6 | 2006 | 946 | 132 | 1,267 | 9,149 | 1,152 | 10,679 | 140 |
| 7 | 2007 | 804 | 113 | 1,077 | 9,953 | 1,265 | 11,756 | 140 |
| 8 | 2008 | 683 | 96 | 915 | 10,636 | 1,360 | 12,671 | 140 |
| 9 | 2009 | 581 | 81 | 778 | 11,217 | 1,442 | 13,449 | 140 |
| 10 | 2010 | 494 | 69 | 661 | 11,711 | 1,511 | 14,110 | 140 |
| 11 | 2011 | 420 | 59 | 562 | 12,130 | 1,570 | 14,672 | 140 |
| 12 | 2012 | 357 | 50 | 478 | 12,487 | 1,620 | 15,150 | 140 |
| 13 | 2013 | 303 | 42 | 406 | 12,790 | 1,662 | 15,556 | 140 |
| 14 | 2014 | 258 | 36 | 345 | 13,048 | 1,698 | 15,901 | 140 |
| 15 | 2015 | 219 | 31 | 293 | 13,267 | 1,729 | 16,195 | 140 |
| 16 | 2016 | 186 | 26 | 249 | 13,453 | 1,755 | 16,444 | 140 |
| 17 | 2017 | 158 | 22 | 212 | 13,611 | 1,777 | 16,656 | 140 |

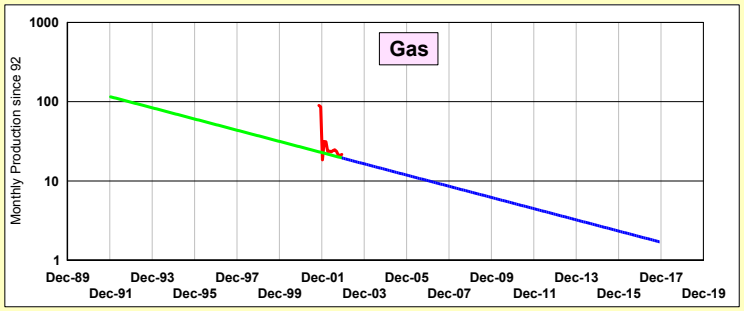
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

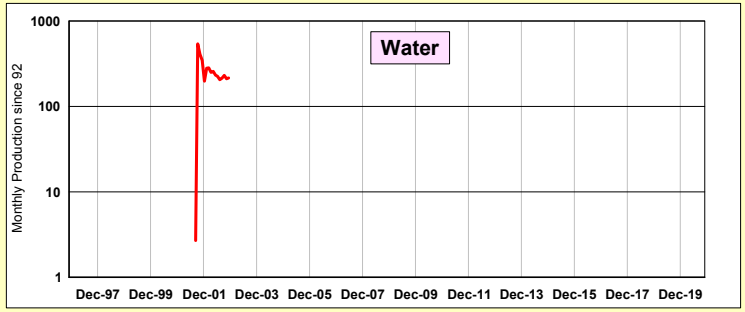
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 140 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 140 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T010059**

Well Name: **Talisman No.1 (Horiz.#1) 5-21-VI, Gosfield North 5 - 21**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0681 | m3 per m3 | 0.1651 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | ERR | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **376** | m3/yr | **0** | e3m3/yr | **26** | m3/yr |
| Cumm to Date: | **495** | m3 | **0** | e3m3 | **82** | m3 |
| Remaining Recoverable: | **2,008** | m3 | **0** | e3m3 | **137** | m3 |
| Total Recovery: | **2,503** | m3 | **0** | e3m3 | **219** | m3 |
| Peak Rate: | 1.0 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 1.8 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 1.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

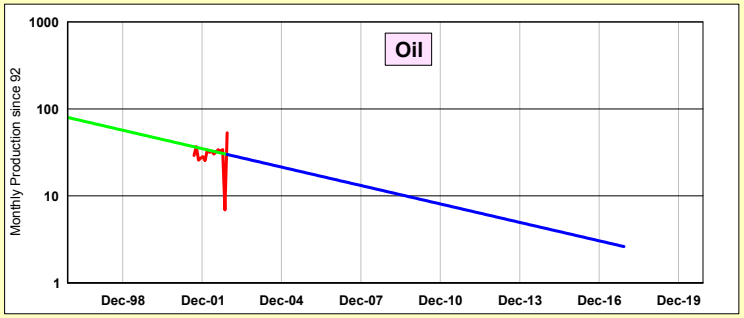
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 2001 | 119 | 0 | 56 | 119 | 0 | 56 | 0 |
| 2 | 2002 | 376 | 0 | 26 | 495 | 0 | 82 | 0 |
| 3 | 2003 | 330 | 0 | 22 | 825 | 0 | 104 | 0 |
| 4 | 2004 | 281 | 0 | 19 | 1,106 | 0 | 123 | 0 |
| 5 | 2005 | 238 | 0 | 16 | 1,344 | 0 | 140 | 0 |
| 6 | 2006 | 203 | 0 | 14 | 1,547 | 0 | 153 | 0 |
| 7 | 2007 | 172 | 0 | 12 | 1,719 | 0 | 165 | 0 |
| 8 | 2008 | 146 | 0 | 10 | 1,865 | 0 | 175 | 0 |
| 9 | 2009 | 124 | 0 | 8 | 1,990 | 0 | 184 | 0 |
| 10 | 2010 | 106 | 0 | 7 | 2,096 | 0 | 191 | 0 |
| 11 | 2011 | 90 | 0 | 6 | 2,186 | 0 | 197 | 0 |
| 12 | 2012 | 76 | 0 | 5 | 2,262 | 0 | 202 | 0 |
| 13 | 2013 | 65 | 0 | 4 | 2,327 | 0 | 207 | 0 |
| 14 | 2014 | 55 | 0 | 4 | 2,382 | 0 | 210 | 0 |
| 15 | 2015 | 47 | 0 | 3 | 2,429 | 0 | 213 | 0 |
| 16 | 2016 | 40 | 0 | 3 | 2,469 | 0 | 216 | 0 |
| 17 | 2017 | 34 | 0 | 2 | 2,503 | 0 | 219 | 0 |

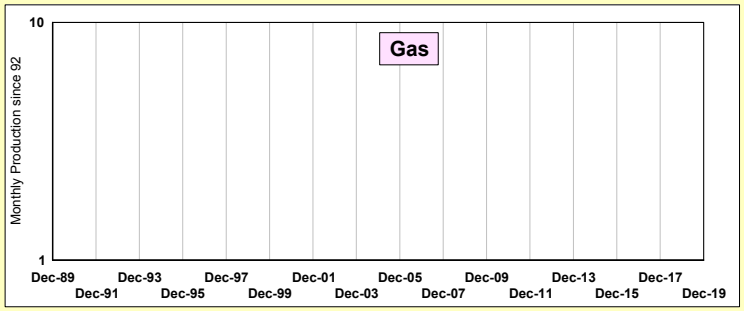
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

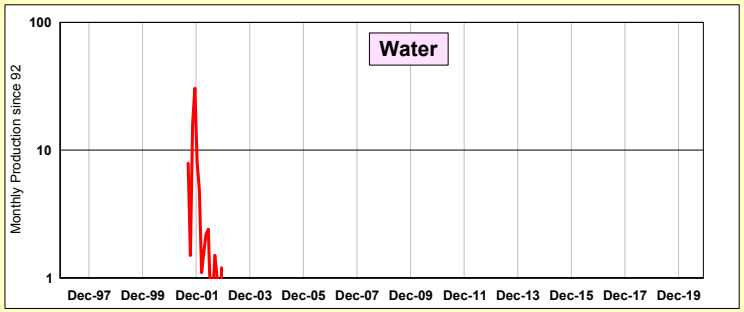
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis---> Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 30 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T010021**

Well Name: **Talisman No. 1 (Horiz. #1), Gosfield North 6 - 24 - VI**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 118 | m3 per m3 | 129 | last year | |
| 2002 Water/Oil ratio: | 1.5361 | m3 per m3 | 1.4602 | last 10 years | |
| 2002 Water/ Gas Ratio: | 11.9066 | m3 per e3m3 | 12.4112 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **6,138** | m3/yr | **792** | e3m3/yr | **9,429** | m3/yr |
| Cumm to Date: | **10,388** | m3 | **1,222** | e3m3 | **15,169** | m3 |
| Remaining Recoverable: | **9,194** | m3 | **2,758** | e3m3 | **14,122** | m3 |
| Total Recovery: | **19,582** | m3 | **3,980** | e3m3 | **29,291** | m3 |
| Peak Rate: | 16.8 | m3/d | 2.2 | e3m3/d | based on annual | |
| Peak Rate: | 27.0 | m3/d | 3.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 16.8 | m3/d | 2.2 | e3m3/d | per day based on annual | |
| Current Rate: | 16.8 | m3/d | 2.2 | e3m3/d | | |
| Current decline rate: | 40% | | annually | | | |

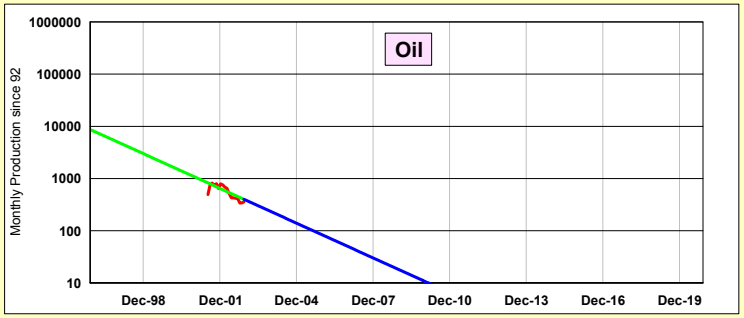
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 2001 | 4,250 | 430 | 5,740 | 4,250 | 430 | 5,740 | 101 |
| 2 | 2002 | 6,138 | 792 | 9,429 | 10,388 | 1,222 | 15,169 | 129 |
| 3 | 2003 | 3,679 | 1,104 | 5,651 | 14,067 | 2,326 | 20,820 | 300 |
| 4 | 2004 | 2,208 | 662 | 3,391 | 16,275 | 2,988 | 24,211 | 300 |
| 5 | 2005 | 1,325 | 397 | 2,035 | 17,599 | 3,386 | 26,246 | 300 |
| 6 | 2006 | 795 | 238 | 1,221 | 18,394 | 3,624 | 27,467 | 300 |
| 7 | 2007 | 477 | 143 | 732 | 18,871 | 3,767 | 28,199 | 300 |
| 8 | 2008 | 286 | 86 | 439 | 19,157 | 3,853 | 28,638 | 300 |
| 9 | 2009 | 172 | 51 | 264 | 19,329 | 3,904 | 28,902 | 300 |
| 10 | 2010 | 103 | 31 | 158 | 19,432 | 3,935 | 29,060 | 300 |
| 11 | 2011 | 62 | 19 | 95 | 19,493 | 3,954 | 29,155 | 300 |
| 12 | 2012 | 37 | 11 | 57 | 19,530 | 3,965 | 29,212 | 300 |
| 13 | 2013 | 22 | 7 | 34 | 19,553 | 3,972 | 29,246 | 300 |
| 14 | 2014 | 13 | 4 | 21 | 19,566 | 3,976 | 29,267 | 300 |
| 15 | 2015 | 8 | 2 | 12 | 19,574 | 3,978 | 29,279 | 300 |
| 16 | 2016 | 5 | 1 | 7 | 19,579 | 3,979 | 29,287 | 300 |
| 17 | 2017 | 3 | 1 | 4 | 19,582 | 3,980 | 29,291 | 300 |

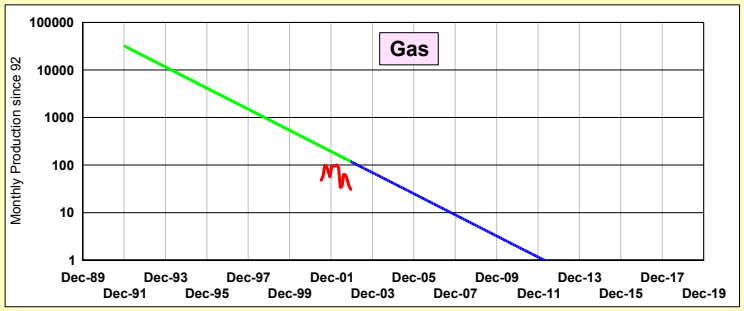
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

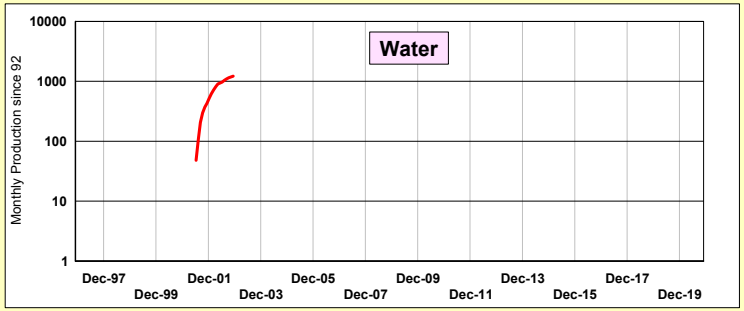
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 300 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 400 | m3/mo. |
| Decline Rate: | 40% | per year | Decline Rate: | 40% | per year |
| Decline Factor: | **0.0417** | per month | Decline Factor: | **0.0417** | per month |



Well No.: **T010019**

Well Name: **Talisman No.1 (Horiz.#1), Gosfield North 5 - 18 - VII**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 100 | m3 per m3 | 107 | last year | |
| 2002 Water/Oil ratio: | 0.1594 | m3 per m3 | 0.1148 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.4896 | m3 per e3m3 | 1.1474 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **4,143** | m3/yr | **443** | e3m3/yr | **660** | m3/yr |
| Cumm to Date: | **8,654** | m3 | **866** | e3m3 | **994** | m3 |
| Remaining Recoverable: | **5,746** | m3 | **575** | e3m3 | **916** | m3 |
| Total Recovery: | **14,400** | m3 | **1,441** | e3m3 | **1,910** | m3 |
| Peak Rate: | 12.4 | m3/d | 1.2 | e3m3/d | based on annual | |
| Peak Rate: | 37.0 | m3/d | 3.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 11.3 | m3/d | 1.2 | e3m3/d | per day based on annual | |
| Current Rate: | 11.3 | m3/d | 1.2 | e3m3/d | | |
| Current decline rate: | 40% | | annually | | | |

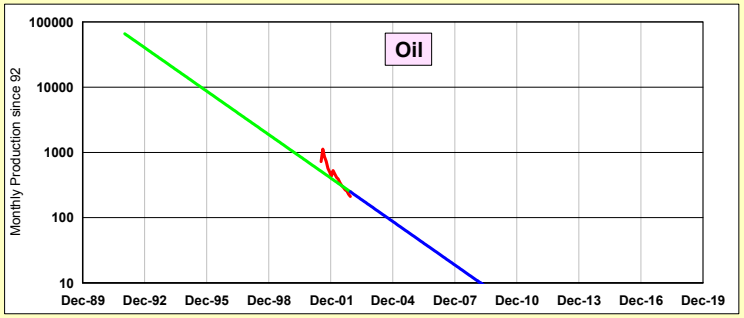
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 2001 | 4,511 | 423 | 334 | 4,511 | 423 | 334 | 94 |
| 2 | 2002 | 4,143 | 443 | 660 | 8,654 | 866 | 994 | 107 |
| 3 | 2003 | 2,299 | 230 | 366 | 10,953 | 1,096 | 1,360 | 100 |
| 4 | 2004 | 1,380 | 138 | 220 | 12,333 | 1,234 | 1,580 | 100 |
| 5 | 2005 | 828 | 83 | 132 | 13,161 | 1,317 | 1,712 | 100 |
| 6 | 2006 | 497 | 50 | 79 | 13,658 | 1,367 | 1,791 | 100 |
| 7 | 2007 | 298 | 30 | 47 | 13,956 | 1,396 | 1,839 | 100 |
| 8 | 2008 | 179 | 18 | 28 | 14,135 | 1,414 | 1,867 | 100 |
| 9 | 2009 | 107 | 11 | 17 | 14,242 | 1,425 | 1,884 | 100 |
| 10 | 2010 | 64 | 6 | 10 | 14,306 | 1,431 | 1,895 | 100 |
| 11 | 2011 | 39 | 4 | 6 | 14,345 | 1,435 | 1,901 | 100 |
| 12 | 2012 | 23 | 2 | 4 | 14,368 | 1,438 | 1,904 | 100 |
| 13 | 2013 | 14 | 1 | 2 | 14,382 | 1,439 | 1,907 | 100 |
| 14 | 2014 | 8 | 1 | 1 | 14,390 | 1,440 | 1,908 | 100 |
| 15 | 2015 | 5 | 1 | 1 | 14,395 | 1,440 | 1,909 | 100 |
| 16 | 2016 | 3 | 0 | 0 | 14,398 | 1,441 | 1,909 | 100 |
| 17 | 2017 | 2 | 0 | 0 | 14,400 | 1,441 | 1,910 | 100 |

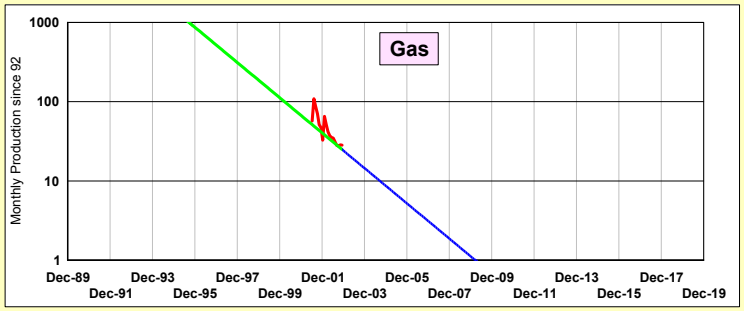
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

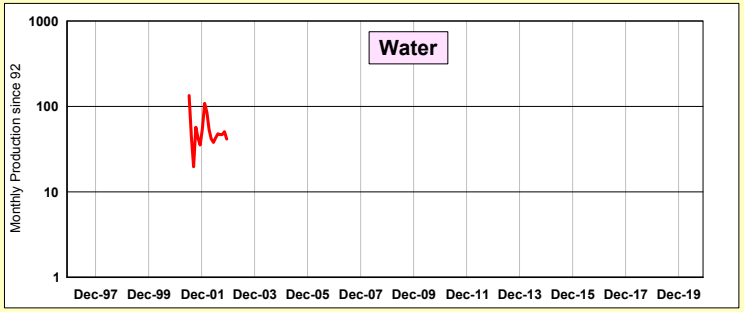
## Monthly Production vs Month + Forecast
*(since 1992)*

106.980786 **Basis--->** **Oil** 344.9

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 100 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 250 | m3/mo. |
| Decline Rate: | 40% | per year | Decline Rate: | 40% | per year |
| Decline Factor: | **0.0417** | per month | Decline Factor: | **0.0417** | per month |



Well No.: **T009153**

Well Name: **Talisman (Horiz.#1), Gosfield North 6 - 19 - VII**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T009153**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 130 | m3 per m3 | 202 | last year | |
| 2002 Water/Oil ratio: | 2.1141 | m3 per m3 | 1.3352 | last 10 years | |
| 2002 Water/ Gas Ratio: | 10.4564 | m3 per e3m3 | 10.2645 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,355** | m3/yr | **274** | e3m3/yr | **2,864** | m3/yr |
| Cumm to Date: | **9,051** | m3 | **1,177** | e3m3 | **12,084** | m3 |
| Remaining Recoverable: | **3,299** | m3 | **660** | e3m3 | **6,974** | m3 |
| Total Recovery: | **12,349** | m3 | **1,837** | e3m3 | **19,059** | m3 |
| Peak Rate: | 13.8 | m3/d | 1.2 | e3m3/d | based on annual | |
| Peak Rate: | 26.7 | m3/d | 2.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 7.3 | m3/d | 1.2 | e3m3/d | per day based on annual | |
| Current Rate: | 3.7 | m3/d | 0.7 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

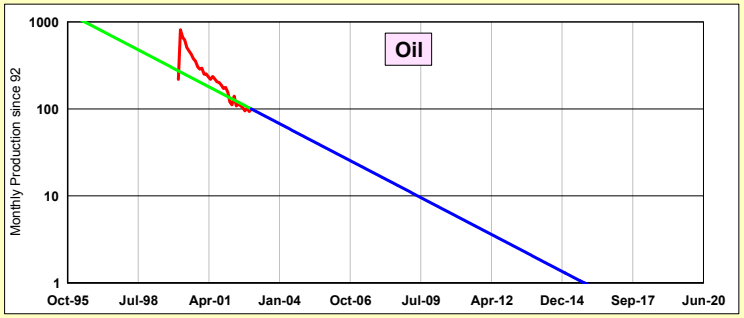
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 2000 | 5,042 | 447 | 5,150 | 5,042 | 447 | 5,150 | 89 |
| 2 | 2001 | 2,654 | 456 | 4,070 | 7,696 | 903 | 9,220 | 172 |
| 3 | 2002 | 1,355 | 274 | 2,864 | 9,051 | 1,177 | 12,084 | 202 |
| 4 | 2003 | 994 | 199 | 2,102 | 10,045 | 1,376 | 14,187 | 200 |
| 5 | 2004 | 696 | 139 | 1,472 | 10,741 | 1,515 | 15,658 | 200 |
| 6 | 2005 | 487 | 97 | 1,030 | 11,228 | 1,613 | 16,688 | 200 |
| 7 | 2006 | 341 | 68 | 721 | 11,569 | 1,681 | 17,409 | 200 |
| 8 | 2007 | 239 | 48 | 505 | 11,808 | 1,729 | 17,914 | 200 |
| 9 | 2008 | 167 | 33 | 353 | 11,975 | 1,762 | 18,268 | 200 |
| 10 | 2009 | 117 | 23 | 247 | 12,092 | 1,786 | 18,515 | 200 |
| 11 | 2010 | 82 | 16 | 173 | 12,174 | 1,802 | 18,688 | 200 |
| 12 | 2011 | 57 | 11 | 121 | 12,231 | 1,813 | 18,809 | 200 |
| 13 | 2012 | 40 | 8 | 85 | 12,272 | 1,822 | 18,894 | 200 |
| 14 | 2013 | 28 | 6 | 59 | 12,300 | 1,827 | 18,953 | 200 |
| 15 | 2014 | 20 | 4 | 42 | 12,319 | 1,831 | 18,995 | 200 |
| 16 | 2015 | 14 | 3 | 29 | 12,333 | 1,834 | 19,024 | 200 |
| 17 | 2016 | 10 | 2 | 20 | 12,343 | 1,836 | 19,044 | 200 |
| 18 | 2017 | 7 | 1 | 14 | 12,349 | 1,837 | 19,059 | 200 |

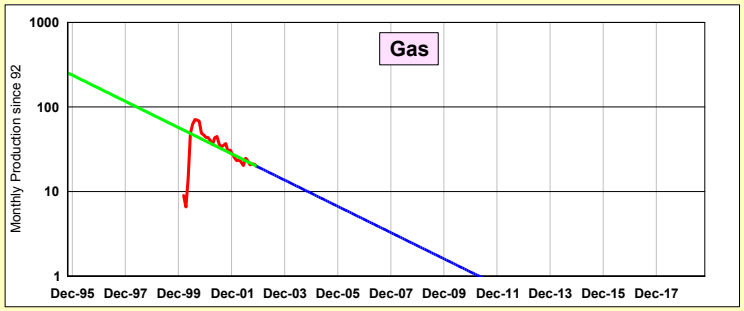
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

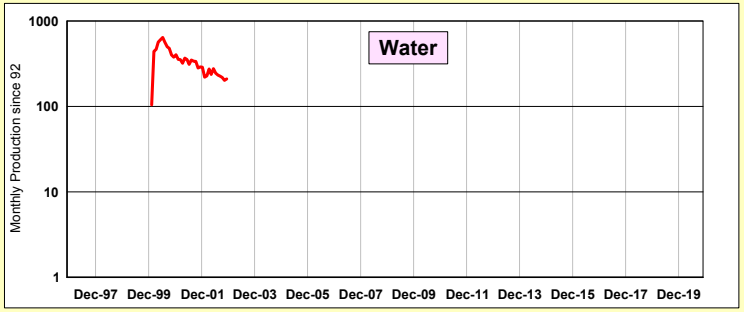
## Monthly Production vs Month + Forecast
*(since 1992)*

202.184986 **Basis--->** **Oil** 112.8

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 200 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 100 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | **0.0293** | per month | Decline Factor: | **0.0293** | per month |



Well No.: **T009127**

Well Name: **Talisman (Horiz.#1), Gosfield North 1 - 21 - VI**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 235 | m3 per m3 | 203 | last year | |
| 2002 Water/Oil ratio: | 1.8924 | m3 per m3 | 1.8828 | last 10 years | |
| 2002 Water/ Gas Ratio: | 9.3291 | m3 per e3m3 | 8.0062 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,060** | m3/yr | **215** | e3m3/yr | **2,007** | m3/yr |
| Cumm to Date: | **4,862** | m3 | **1,143** | e3m3 | **9,154** | m3 |
| Remaining Recoverable: | **3,660** | m3 | **732** | e3m3 | **6,926** | m3 |
| Total Recovery: | **8,522** | m3 | **1,875** | e3m3 | **16,080** | m3 |
| Peak Rate: | 7.0 | m3/d | 1.8 | e3m3/d | based on annual | |
| Peak Rate: | 11.8 | m3/d | 4.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.4 | m3/d | 0.8 | e3m3/d | per day based on annual | |
| Current Rate: | 2.9 | m3/d | 0.6 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

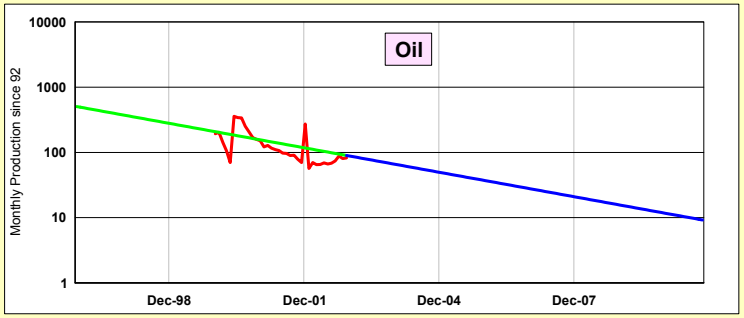
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2000 | 2,542 | 647 | 4,450 | 2,542 | 647 | 4,450 | 254 |
| 2 | 2001 | 1,260 | 282 | 2,697 | 3,802 | 928 | 7,148 | 224 |
| 3 | 2002 | 1,060 | 215 | 2,007 | 4,862 | 1,143 | 9,154 | 203 |
| 4 | 2003 | 927 | 185 | 1,755 | 5,789 | 1,329 | 10,909 | 200 |
| 5 | 2004 | 695 | 139 | 1,316 | 6,485 | 1,468 | 12,225 | 200 |
| 6 | 2005 | 522 | 104 | 987 | 7,006 | 1,572 | 13,212 | 200 |
| 7 | 2006 | 391 | 78 | 740 | 7,398 | 1,651 | 13,953 | 200 |
| 8 | 2007 | 293 | 59 | 555 | 7,691 | 1,709 | 14,508 | 200 |
| 9 | 2008 | 220 | 44 | 416 | 7,911 | 1,753 | 14,924 | 200 |
| 10 | 2009 | 165 | 33 | 312 | 8,076 | 1,786 | 15,237 | 200 |
| 11 | 2010 | 124 | 25 | 234 | 8,200 | 1,811 | 15,471 | 200 |
| 12 | 2011 | 93 | 19 | 176 | 8,293 | 1,830 | 15,647 | 200 |
| 13 | 2012 | 70 | 14 | 132 | 8,362 | 1,843 | 15,779 | 200 |
| 14 | 2013 | 52 | 10 | 99 | 8,415 | 1,854 | 15,877 | 200 |
| 15 | 2014 | 39 | 8 | 74 | 8,454 | 1,862 | 15,951 | 200 |
| 16 | 2015 | 29 | 6 | 56 | 8,483 | 1,868 | 16,007 | 200 |
| 17 | 2016 | 22 | 4 | 42 | 8,505 | 1,872 | 16,049 | 200 |
| 18 | 2017 | 17 | 3 | 31 | 8,522 | 1,875 | 16,080 | 200 |

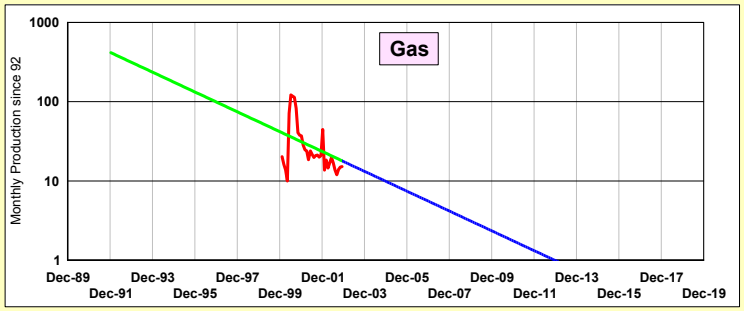
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

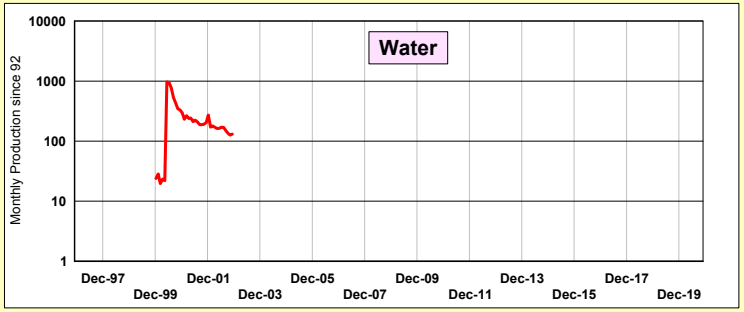
## Monthly Production vs Month + Forecast
*(since 1992)*

202.847982 **Basis--->** **Oil** 88.3

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 200 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 90 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T008544**

Well Name: **Pembina, Gosfield North 4 - 22 - VI**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 16 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.5822 | m3 per m3 | 0.3290 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 20.7013 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **380** | m3/yr | **0** | e3m3/yr | **221** | m3/yr |
| Cumm to Date: | **1,938** | m3 | **31** | e3m3 | **638** | m3 |
| Remaining Recoverable: | **990** | m3 | **0** | e3m3 | **576** | m3 |
| Total Recovery: | **2,928** | m3 | **31** | e3m3 | **1,214** | m3 |
| Peak Rate: | 1.9 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 3.3 | m3/d | 0.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.0 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 1.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

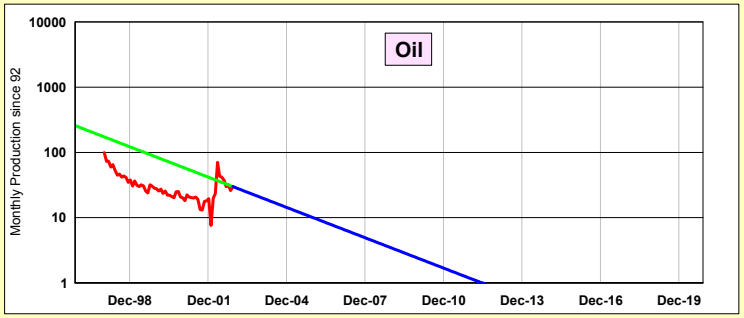
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1998 | 677 | 31 | 76 | 677 | 31 | 76 | 45 |
| 2 | 1999 | 370 | 0 | 121 | 1,047 | 31 | 197 | 0 |
| 3 | 2000 | 287 | 0 | 112 | 1,334 | 31 | 309 | 0 |
| 4 | 2001 | 224 | 0 | 107 | 1,558 | 31 | 416 | 0 |
| 5 | 2002 | 380 | 0 | 221 | 1,938 | 31 | 638 | 0 |
| 6 | 2003 | 298 | 0 | 174 | 2,236 | 31 | 811 | 0 |
| 7 | 2004 | 209 | 0 | 122 | 2,445 | 31 | 933 | 0 |
| 8 | 2005 | 146 | 0 | 85 | 2,591 | 31 | 1,018 | 0 |
| 9 | 2006 | 102 | 0 | 60 | 2,694 | 31 | 1,078 | 0 |
| 10 | 2007 | 72 | 0 | 42 | 2,765 | 31 | 1,119 | 0 |
| 11 | 2008 | 50 | 0 | 29 | 2,815 | 31 | 1,148 | 0 |
| 12 | 2009 | 35 | 0 | 20 | 2,850 | 31 | 1,169 | 0 |
| 13 | 2010 | 25 | 0 | 14 | 2,875 | 31 | 1,183 | 0 |
| 14 | 2011 | 17 | 0 | 10 | 2,892 | 31 | 1,193 | 0 |
| 15 | 2012 | 12 | 0 | 7 | 2,904 | 31 | 1,200 | 0 |
| 16 | 2013 | 8 | 0 | 5 | 2,913 | 31 | 1,205 | 0 |
| 17 | 2014 | 6 | 0 | 3 | 2,919 | 31 | 1,209 | 0 |
| 18 | 2015 | 4 | 0 | 2 | 2,923 | 31 | 1,211 | 0 |
| 19 | 2016 | 3 | 0 | 2 | 2,926 | 31 | 1,213 | 0 |
| 20 | 2017 | 2 | 0 | 1 | 2,928 | 31 | 1,214 | 0 |

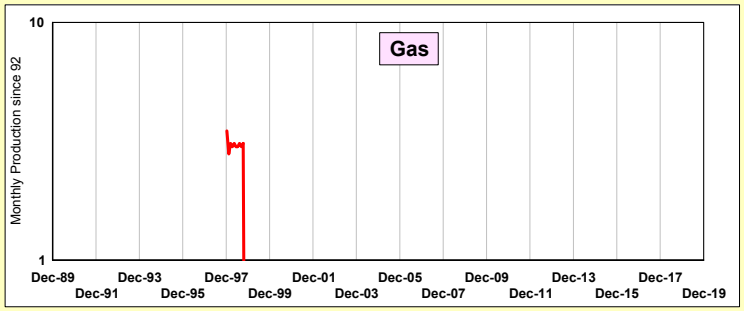
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

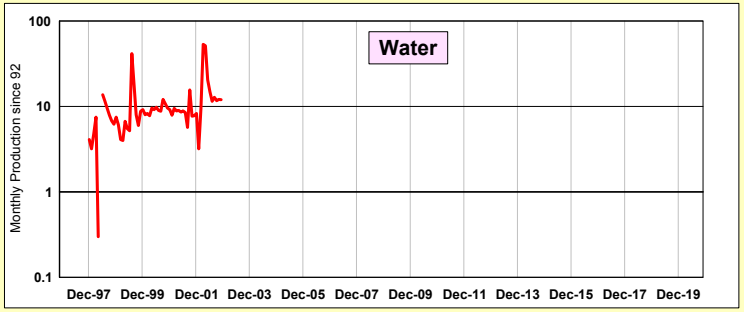
## Monthly Production vs Month + Forecast
*(since 1992)*

0 **Basis--->** **Oil** 31.6

| | | | | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 30 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | **0.0293** | per month | Decline Factor: | **0.0293** | per month |
| **GAS** | | | **OIL** | | |



Well No.: **T008438**

Well Name: **Pembina, Gosfield North 6 - 24 - VI**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 59 | m3 per m3 | 84 | last year | |
| 2002 Water/Oil ratio: | 1.2907 | m3 per m3 | 1.6341 | last 10 years | |
| 2002 Water/ Gas Ratio: | 15.2888 | m3 per e3m3 | 27.8653 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,206** | m3/yr | **102** | e3m3/yr | **1,556** | m3/yr |
| Cumm to Date: | **2,178** | m3 | **128** | e3m3 | **3,558** | m3 |
| Remaining Recoverable: | **1,345** | m3 | **108** | e3m3 | **1,736** | m3 |
| Total Recovery: | **3,523** | m3 | **235** | e3m3 | **5,295** | m3 |
| Peak Rate: | 3.3 | m3/d | 0.3 | e3m3/d | based on annual | |
| Peak Rate: | 7.1 | m3/d | 0.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.6 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 3.3 | m3/d | 0.3 | e3m3/d | | |
| Current decline rate: | 50% | | annually | | | |

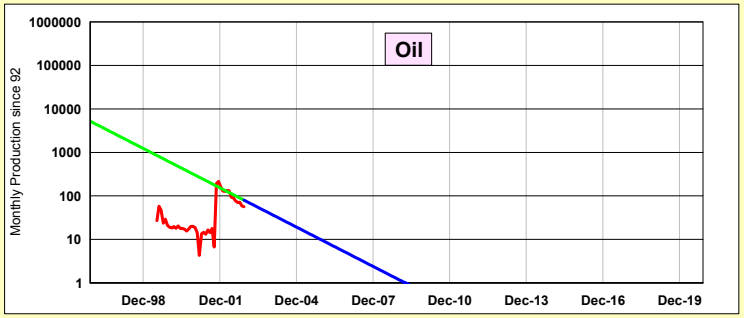
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1999 | 206 | 0 | 458 | 206 | 0 | 458 | 0 |
| 2 | 2000 | 222 | 0 | 697 | 428 | 0 | 1,155 | 0 |
| 3 | 2001 | 544 | 26 | 847 | 972 | 26 | 2,002 | 48 |
| 4 | 2002 | 1,206 | 102 | 1,556 | 2,178 | 128 | 3,558 | 84 |
| 5 | 2003 | 673 | 54 | 868 | 2,850 | 182 | 4,427 | 80 |
| 6 | 2004 | 336 | 27 | 434 | 3,187 | 208 | 4,861 | 80 |
| 7 | 2005 | 168 | 13 | 217 | 3,355 | 222 | 5,078 | 80 |
| 8 | 2006 | 84 | 7 | 109 | 3,439 | 229 | 5,186 | 80 |
| 9 | 2007 | 42 | 3 | 54 | 3,481 | 232 | 5,241 | 80 |
| 10 | 2008 | 21 | 2 | 27 | 3,502 | 234 | 5,268 | 80 |
| 11 | 2009 | 11 | 1 | 14 | 3,512 | 234 | 5,281 | 80 |
| 12 | 2010 | 5 | 0 | 7 | 3,518 | 235 | 5,288 | 80 |
| 13 | 2011 | 3 | 0 | 3 | 3,520 | 235 | 5,291 | 80 |
| 14 | 2012 | 1 | 0 | 2 | 3,522 | 235 | 5,293 | 80 |
| 15 | 2013 | 1 | 0 | 1 | 3,522 | 235 | 5,294 | 80 |
| 16 | 2014 | 0 | 0 | 0 | 3,523 | 235 | 5,294 | 80 |
| 17 | 2015 | 0 | 0 | 0 | 3,523 | 235 | 5,295 | 80 |
| 18 | 2016 | 0 | 0 | 0 | 3,523 | 235 | 5,295 | 80 |
| 19 | 2017 | 0 | 0 | 0 | 3,523 | 235 | 5,295 | 80 |

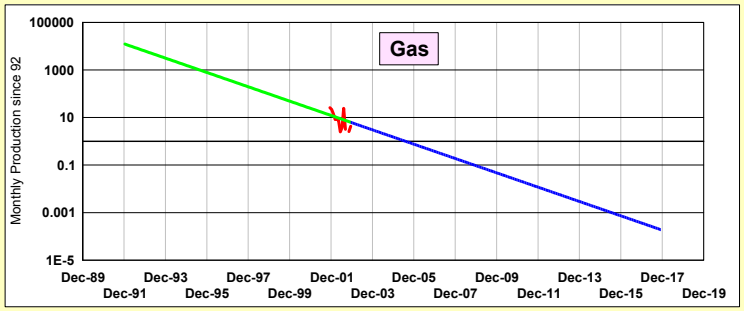
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

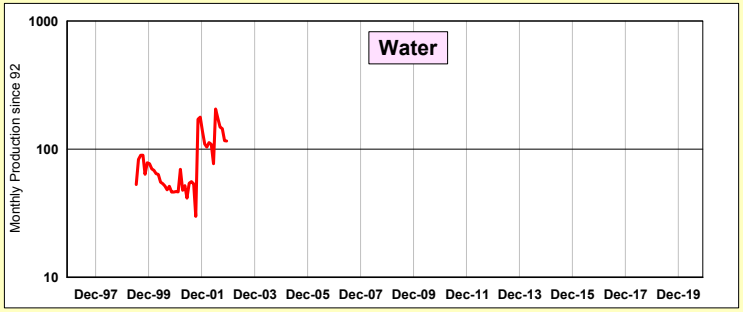
## Monthly Production vs Month + Forecast
*(since 1992)*

84.4182768 **Basis--->** **Oil** 100.4

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 80 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 80 | m3/mo. |
| Decline Rate: | 50% | per year | Decline Rate: | 50% | per year |
| Decline Factor: | **0.0561** | per month | Decline Factor: | **0.0561** | per month |



Well No.: **T008437**

Well Name: **R.E.C et al #7, Gosfield North 4 - 20 - VI**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 48 | m3 per m3 | 56 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 0.0045 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 0.0941 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **178** | m3/yr | **10** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **1,825** | m3 | **88** | e3m3 | **8** | m3 |
| Remaining Recoverable: | **606** | m3 | **36** | e3m3 | **0** | m3 |
| Total Recovery: | **2,432** | m3 | **124** | e3m3 | **8** | m3 |
| Peak Rate: | 1.4 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 2.8 | m3/d | 0.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.4 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.5 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 22% | | annually | | | |

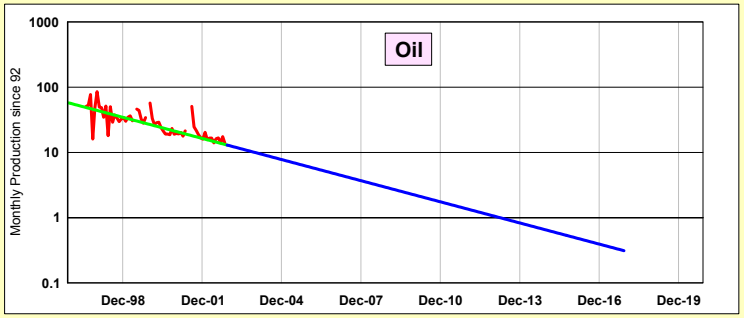
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1997 | 244 | 15 | 0 | 244 | 15 | 0 | 63 |
| 2 | 1998 | 501 | 32 | 2 | 746 | 47 | 2 | 63 |
| 3 | 1999 | 351 | 0 | 4 | 1,097 | 47 | 6 | 0 |
| 4 | 2000 | 320 | 20 | 3 | 1,417 | 67 | 8 | 63 |
| 5 | 2001 | 231 | 11 | 0 | 1,648 | 78 | 8 | 47 |
| 6 | 2002 | 178 | 10 | 0 | 1,825 | 88 | 8 | 56 |
| 7 | 2003 | 137 | 8 | 0 | 1,962 | 96 | 8 | 60 |
| 8 | 2004 | 107 | 6 | 0 | 2,069 | 102 | 8 | 60 |
| 9 | 2005 | 83 | 5 | 0 | 2,152 | 107 | 8 | 60 |
| 10 | 2006 | 65 | 4 | 0 | 2,217 | 111 | 8 | 60 |
| 11 | 2007 | 51 | 3 | 0 | 2,267 | 114 | 8 | 60 |
| 12 | 2008 | 39 | 2 | 0 | 2,307 | 117 | 8 | 60 |
| 13 | 2009 | 31 | 2 | 0 | 2,338 | 118 | 8 | 60 |
| 14 | 2010 | 24 | 1 | 0 | 2,362 | 120 | 8 | 60 |
| 15 | 2011 | 19 | 1 | 0 | 2,380 | 121 | 8 | 60 |
| 16 | 2012 | 15 | 1 | 0 | 2,395 | 122 | 8 | 60 |
| 17 | 2013 | 11 | 1 | 0 | 2,406 | 123 | 8 | 60 |
| 18 | 2014 | 9 | 1 | 0 | 2,415 | 123 | 8 | 60 |
| 19 | 2015 | 7 | 0 | 0 | 2,422 | 124 | 8 | 60 |
| 20 | 2016 | 5 | 0 | 0 | 2,427 | 124 | 8 | 60 |
| 21 | 2017 | 4 | 0 | 0 | 2,432 | 124 | 8 | 60 |

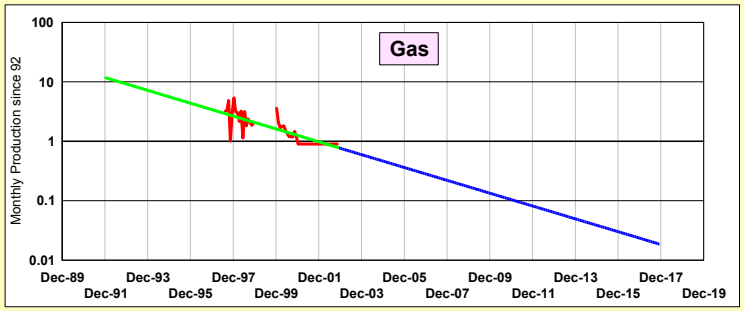
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

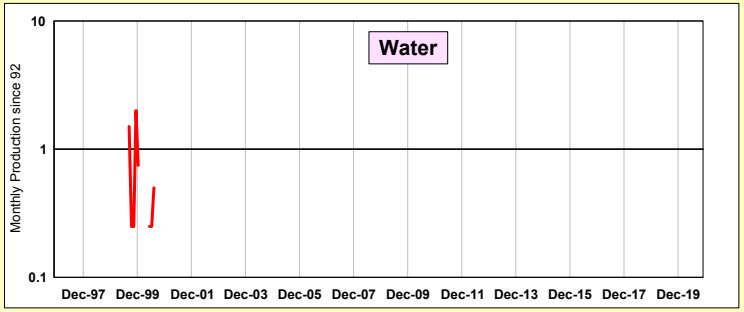
## Monthly Production vs Month + Forecast
*(since 1992)*

55.70247 **Basis--->** **Oil** 14.8

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 60 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 13 | m3/mo. |
| Decline Rate: | 22% | per year | Decline Rate: | 22% | per year |
| Decline Factor: | **0.0205** | per month | Decline Factor: | **0.0205** | per month |



Well No.: **T008413**

Well Name: **Pembina et al, Gosfield North 8 - 24 - VI**

Status: **Active Well**

MNR Pool: **Gosfield N. 2-21-VI**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 50 | m3 per m3 | 50 | last year | |
| 2002 Water/Oil ratio: | 0.5339 | m3 per m3 | 0.3026 | last 10 years | |
| 2002 Water/ Gas Ratio: | 10.5767 | m3 per e3m3 | 6.1076 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **646** | m3/yr | **33** | e3m3/yr | **345** | m3/yr |
| Cumm to Date: | **6,565** | m3 | **325** | e3m3 | **1,986** | m3 |
| Remaining Recoverable: | **3,280** | m3 | **164** | e3m3 | **1,751** | m3 |
| Total Recovery: | **9,844** | m3 | **489** | e3m3 | **3,737** | m3 |
| Peak Rate: | 3.9 | m3/d | 0.2 | e3m3/d | based on annual | |
| Peak Rate: | 7.5 | m3/d | 0.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 3.9 | m3/d | 0.2 | e3m3/d | per day based on annual | |
| Current Rate: | 1.8 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

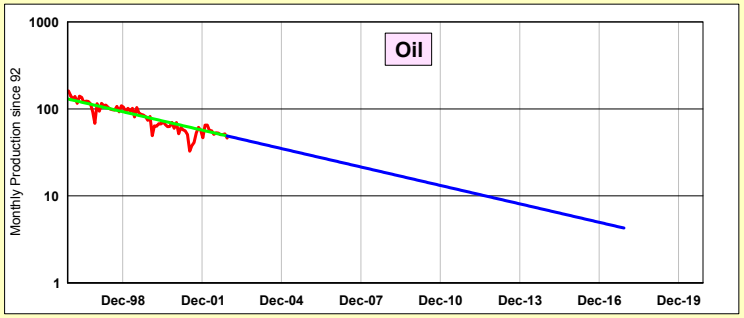
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1996 | 709 | 88 | 188 | 709 | 88 | 188 | 124 |
| 2 | 1997 | 1,441 | 72 | 294 | 2,151 | 160 | 483 | 50 |
| 3 | 1998 | 1,255 | 38 | 232 | 3,405 | 197 | 714 | 30 |
| 4 | 1999 | 1,097 | 32 | 309 | 4,502 | 230 | 1,024 | 29 |
| 5 | 2000 | 787 | 34 | 285 | 5,289 | 263 | 1,308 | 43 |
| 6 | 2001 | 630 | 29 | 333 | 5,919 | 293 | 1,641 | 46 |
| 7 | 2002 | 646 | 33 | 345 | 6,565 | 325 | 1,986 | 50 |
| 8 | 2003 | 539 | 27 | 288 | 7,104 | 352 | 2,274 | 50 |
| 9 | 2004 | 458 | 23 | 245 | 7,562 | 375 | 2,519 | 50 |
| 10 | 2005 | 389 | 19 | 208 | 7,951 | 395 | 2,727 | 50 |
| 11 | 2006 | 331 | 17 | 177 | 8,282 | 411 | 2,903 | 50 |
| 12 | 2007 | 281 | 14 | 150 | 8,564 | 425 | 3,054 | 50 |
| 13 | 2008 | 239 | 12 | 128 | 8,803 | 437 | 3,181 | 50 |
| 14 | 2009 | 203 | 10 | 109 | 9,006 | 447 | 3,290 | 50 |
| 15 | 2010 | 173 | 9 | 92 | 9,179 | 456 | 3,382 | 50 |
| 16 | 2011 | 147 | 7 | 78 | 9,326 | 463 | 3,460 | 50 |
| 17 | 2012 | 125 | 6 | 67 | 9,451 | 470 | 3,527 | 50 |
| 18 | 2013 | 106 | 5 | 57 | 9,557 | 475 | 3,584 | 50 |
| 19 | 2014 | 90 | 5 | 48 | 9,647 | 479 | 3,632 | 50 |
| 20 | 2015 | 77 | 4 | 41 | 9,724 | 483 | 3,673 | 50 |
| 21 | 2016 | 65 | 3 | 35 | 9,789 | 486 | 3,708 | 50 |
| 22 | 2017 | 55 | 3 | 30 | 9,844 | 489 | 3,737 | 50 |

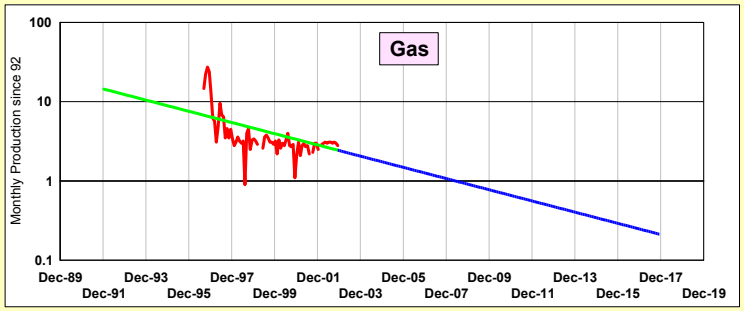
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

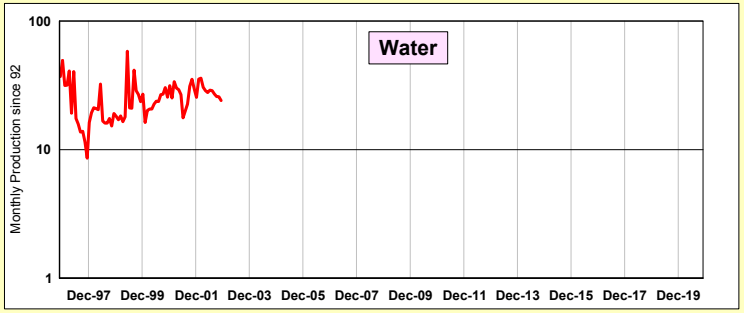
## Monthly Production vs Month + Forecast
*(since 1992)*

50.4800248 **Basis--->** **Oil** 53.8

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 50 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 49 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T008054**

Well Name: **Telesis et al 34716, Mersea 3 - 3 - V**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 76 | m3 per m3 | 20 | last year | |
| 2002 Water/Oil ratio: | 0.2636 | m3 per m3 | 0.2085 | last 10 years | |
| 2002 Water/ Gas Ratio: | 12.8916 | m3 per e3m3 | 2.7294 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **406** | m3/yr | **8** | e3m3/yr | **107** | m3/yr |
| Cumm to Date: | **13,902** | m3 | **1,062** | e3m3 | **2,899** | m3 |
| Remaining Recoverable: | **1,645** | m3 | **49** | e3m3 | **434** | m3 |
| Total Recovery: | **15,547** | m3 | **1,112** | e3m3 | **3,333** | m3 |
| Peak Rate: | 8.6 | m3/d | 0.8 | e3m3/d | based on annual | |
| Peak Rate: | 19.1 | m3/d | 1.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 8.6 | m3/d | 0.8 | e3m3/d | per day based on annual | |
| Current Rate: | 1.1 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

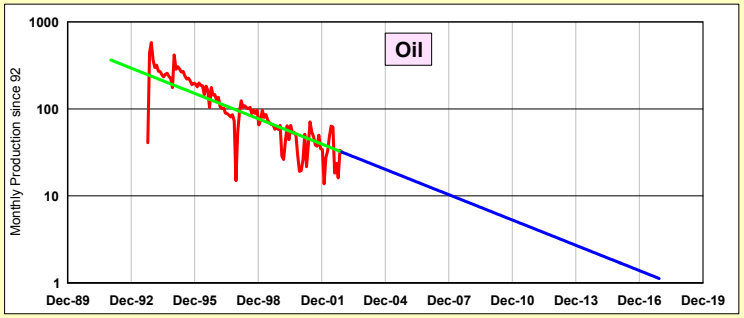
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 1,066 | 62 | 114 | 1,066 | 62 | 114 | 58 |
| 2 | 1994 | 3,156 | 274 | 723 | 4,222 | 336 | 837 | 87 |
| 3 | 1995 | 3,122 | 258 | 779 | 7,344 | 594 | 1,617 | 83 |
| 4 | 1996 | 2,010 | 118 | 467 | 9,354 | 712 | 2,084 | 59 |
| 5 | 1997 | 1,091 | 99 | 128 | 10,444 | 810 | 2,211 | 90 |
| 6 | 1998 | 1,164 | 120 | 126 | 11,608 | 930 | 2,337 | 103 |
| 7 | 1999 | 857 | 38 | 174 | 12,465 | 968 | 2,511 | 44 |
| 8 | 2000 | 541 | 38 | 146 | 13,005 | 1,006 | 2,657 | 69 |
| 9 | 2001 | 491 | 48 | 136 | 13,496 | 1,054 | 2,792 | 99 |
| 10 | 2002 | 406 | 8 | 107 | 13,902 | 1,062 | 2,899 | 20 |
| 11 | 2003 | 341 | 10 | 90 | 14,243 | 1,072 | 2,989 | 30 |
| 12 | 2004 | 273 | 8 | 72 | 14,516 | 1,081 | 3,061 | 30 |
| 13 | 2005 | 218 | 7 | 58 | 14,734 | 1,087 | 3,119 | 30 |
| 14 | 2006 | 175 | 5 | 46 | 14,908 | 1,092 | 3,165 | 30 |
| 15 | 2007 | 140 | 4 | 37 | 15,048 | 1,097 | 3,201 | 30 |
| 16 | 2008 | 112 | 3 | 29 | 15,160 | 1,100 | 3,231 | 30 |
| 17 | 2009 | 89 | 3 | 24 | 15,249 | 1,103 | 3,254 | 30 |
| 18 | 2010 | 72 | 2 | 19 | 15,321 | 1,105 | 3,273 | 30 |
| 19 | 2011 | 57 | 2 | 15 | 15,378 | 1,106 | 3,288 | 30 |
| 20 | 2012 | 46 | 1 | 12 | 15,424 | 1,108 | 3,300 | 30 |
| 21 | 2013 | 37 | 1 | 10 | 15,460 | 1,109 | 3,310 | 30 |
| 22 | 2014 | 29 | 1 | 8 | 15,490 | 1,110 | 3,318 | 30 |
| 23 | 2015 | 23 | 1 | 6 | 15,513 | 1,111 | 3,324 | 30 |
| 24 | 2016 | 19 | 1 | 5 | 15,532 | 1,111 | 3,329 | 30 |
| 25 | 2017 | 15 | 0 | 4 | 15,547 | 1,112 | 3,333 | 30 |

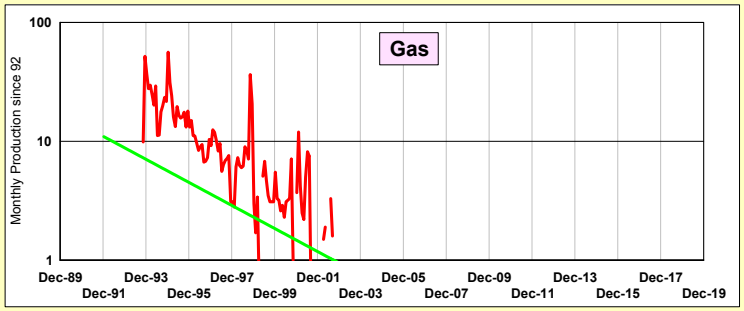
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

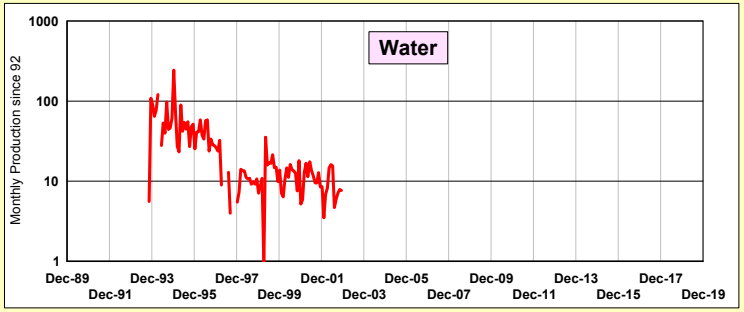
## Monthly Production vs Month + Forecast
*(since 1992)*

20.4483863 **Basis--->** **OIl** 33.8

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 30 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 32 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008001**

Well Name: **Telesis et al 34631, Mersea 8 - 5 - IV**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well:

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 70 | m3 per m3 | 58 | last year | |
| 2002 Water/Oil ratio: | 0.1433 | m3 per m3 | 0.0562 | last 10 years | |
| 2002 Water/ Gas Ratio: | 2.4551 | m3 per e3m3 | 0.8000 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **305** | m3/yr | **18** | e3m3/yr | **44** | m3/yr |
| Cumm to Date: | **3,885** | m3 | **273** | e3m3 | **218** | m3 |
| Remaining Recoverable: | **3,132** | m3 | **219** | e3m3 | **449** | m3 |
| Total Recovery: | **7,018** | m3 | **492** | e3m3 | **667** | m3 |
| Peak Rate: | 1.9 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 3.6 | m3/d | 0.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.9 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.8 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 5% | | annually | | | |

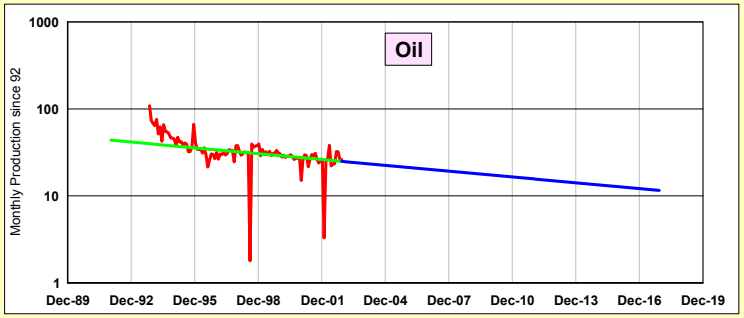
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 229 | 22 | 7 | 229 | 22 | 7 | 95 |
| 2 | 1994 | 686 | 46 | 0 | 915 | 67 | 7 | 67 |
| 3 | 1995 | 501 | 34 | 0 | 1,416 | 102 | 7 | 69 |
| 4 | 1996 | 375 | 34 | 0 | 1,791 | 136 | 7 | 91 |
| 5 | 1997 | 374 | 34 | 54 | 2,165 | 170 | 61 | 92 |
| 6 | 1998 | 378 | 33 | 25 | 2,543 | 203 | 86 | 87 |
| 7 | 1999 | 383 | 22 | 53 | 2,926 | 225 | 140 | 57 |
| 8 | 2000 | 339 | 23 | 19 | 3,266 | 248 | 159 | 67 |
| 9 | 2001 | 315 | 7 | 16 | 3,581 | 255 | 175 | 23 |
| 10 | 2002 | 305 | 18 | 44 | 3,885 | 273 | 218 | 58 |
| 11 | 2003 | 292 | 20 | 42 | 4,177 | 293 | 260 | 70 |
| 12 | 2004 | 277 | 19 | 40 | 4,454 | 313 | 300 | 70 |
| 13 | 2005 | 263 | 18 | 38 | 4,718 | 331 | 338 | 70 |
| 14 | 2006 | 250 | 18 | 36 | 4,968 | 349 | 374 | 70 |
| 15 | 2007 | 238 | 17 | 34 | 5,206 | 365 | 408 | 70 |
| 16 | 2008 | 226 | 16 | 32 | 5,431 | 381 | 440 | 70 |
| 17 | 2009 | 215 | 15 | 31 | 5,646 | 396 | 471 | 70 |
| 18 | 2010 | 204 | 14 | 29 | 5,850 | 411 | 500 | 70 |
| 19 | 2011 | 194 | 14 | 28 | 6,043 | 424 | 528 | 70 |
| 20 | 2012 | 184 | 13 | 26 | 6,227 | 437 | 554 | 70 |
| 21 | 2013 | 175 | 12 | 25 | 6,402 | 449 | 579 | 70 |
| 22 | 2014 | 166 | 12 | 24 | 6,568 | 461 | 603 | 70 |
| 23 | 2015 | 158 | 11 | 23 | 6,726 | 472 | 625 | 70 |
| 24 | 2016 | 150 | 10 | 21 | 6,875 | 482 | 647 | 70 |
| 25 | 2017 | 142 | 10 | 20 | 7,018 | 492 | 667 | 70 |

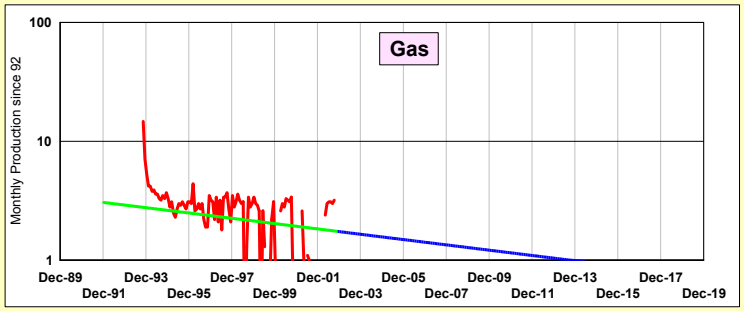
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

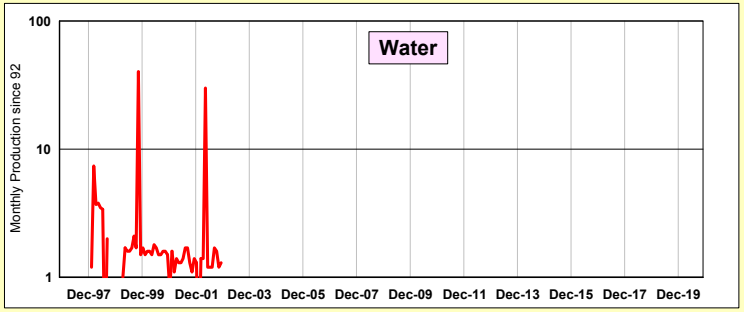
## Monthly Production vs Month + Forecast
*(since 1992)*

58.3797967 **Basis--->** **Oil** 25.4

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 70 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 25 | m3/mo. |
| Decline Rate: | 5% | per year | Decline Rate: | 5% | per year |
| Decline Factor: | 0.0043 | per month | Decline Factor: | 0.0043 | per month |



Well No.: **T007887**

Well Name: **Telesis et al 34630, Mersea 3 - 4 - IV**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

| Well: | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 64 | m3 per m3 | 180 | last year | |
| 2002 Water/Oil ratio: | 34.5923 | m3 per m3 | 2.9365 | last 10 years | |
| 2002 Water/ Gas Ratio: | 191.9276 | m3 per e3m3 | 45.9413 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **161** | m3/yr | **29** | e3m3/yr | **5,566** | m3/yr |
| Cumm to Date: | **20,275** | m3 | **1,296** | e3m3 | **59,537** | m3 |
| Remaining Recoverable: | **276** | m3 | **50** | e3m3 | **9,541** | m3 |
| Total Recovery: | **20,551** | m3 | **1,346** | e3m3 | **69,078** | m3 |
| Peak Rate: | 8.9 | m3/d | 0.5 | e3m3/d | based on annual | |
| Peak Rate: | 10.7 | m3/d | 1.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 8.9 | m3/d | 0.5 | e3m3/d | per day based on annual | |
| Current Rate: | 0.4 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 40% | | annually | | | |

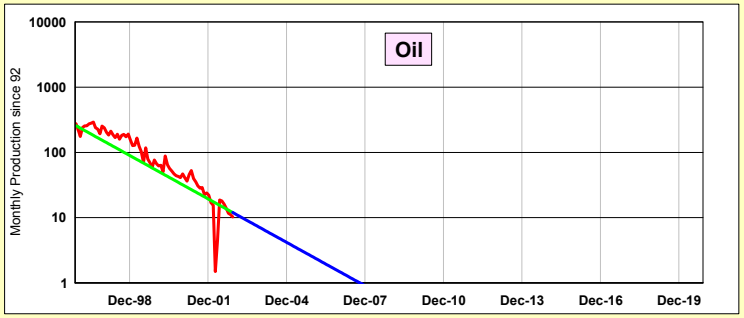
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1992 | 806 | 37 | 412 | 806 | 37 | 412 | 46 |
| 2 | 1993 | 3,238 | 194 | 4,525 | 4,044 | 231 | 4,937 | 60 |
| 3 | 1994 | 3,139 | 176 | 5,213 | 7,183 | 407 | 10,150 | 56 |
| 4 | 1995 | 2,583 | 148 | 5,062 | 9,766 | 555 | 15,211 | 57 |
| 5 | 1996 | 2,760 | 144 | 6,155 | 12,526 | 699 | 21,367 | 52 |
| 6 | 1997 | 2,914 | 189 | 6,304 | 15,440 | 887 | 27,670 | 65 |
| 7 | 1998 | 2,283 | 122 | 11,129 | 17,723 | 1,009 | 38,799 | 53 |
| 8 | 1999 | 1,278 | 151 | 6,288 | 19,001 | 1,160 | 45,087 | 118 |
| 9 | 2000 | 680 | 56 | 4,871 | 19,682 | 1,216 | 49,958 | 82 |
| 10 | 2001 | 433 | 51 | 4,013 | 20,114 | 1,267 | 53,971 | 118 |
| 11 | 2002 | 161 | 29 | 5,566 | 20,275 | 1,296 | 59,537 | 180 |
| 12 | 2003 | 110 | 20 | 3,818 | 20,386 | 1,316 | 63,355 | 180 |
| 13 | 2004 | 66 | 12 | 2,291 | 20,452 | 1,328 | 65,646 | 180 |
| 14 | 2005 | 40 | 7 | 1,375 | 20,492 | 1,335 | 67,021 | 180 |
| 15 | 2006 | 24 | 4 | 825 | 20,515 | 1,339 | 67,846 | 180 |
| 16 | 2007 | 14 | 3 | 495 | 20,530 | 1,342 | 68,340 | 180 |
| 17 | 2008 | 9 | 2 | 297 | 20,538 | 1,343 | 68,637 | 180 |
| 18 | 2009 | 5 | 1 | 178 | 20,543 | 1,344 | 68,815 | 180 |
| 19 | 2010 | 3 | 1 | 107 | 20,547 | 1,345 | 68,922 | 180 |
| 20 | 2011 | 2 | 0 | 64 | 20,548 | 1,345 | 68,986 | 180 |
| 21 | 2012 | 1 | 0 | 38 | 20,549 | 1,345 | 69,025 | 180 |
| 22 | 2013 | 1 | 0 | 23 | 20,550 | 1,345 | 69,048 | 180 |
| 23 | 2014 | 0 | 0 | 14 | 20,551 | 1,346 | 69,062 | 180 |
| 24 | 2015 | 0 | 0 | 8 | 20,551 | 1,346 | 69,070 | 180 |
| 25 | 2016 | 0 | 0 | 5 | 20,551 | 1,346 | 69,075 | 180 |
| 26 | 2017 | 0 | 0 | 3 | 20,551 | 1,346 | 69,078 | 180 |

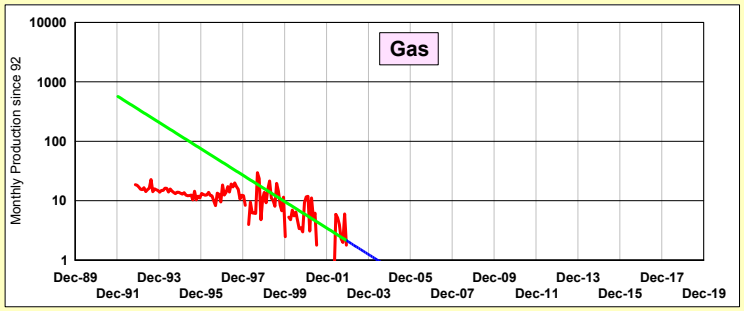
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

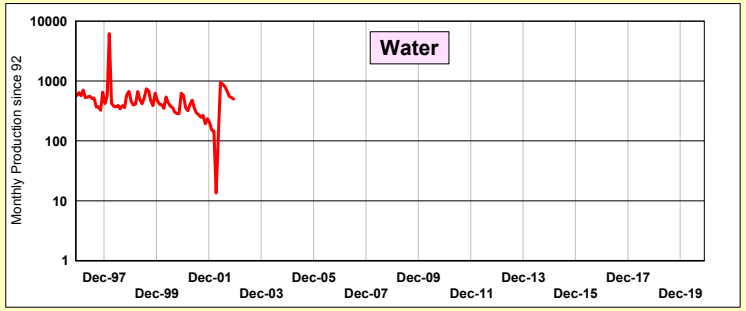
## Monthly Production vs Month + Forecast
*(since 1992)*

180.236172 **Basis--->** **Oil** 13.4

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 180 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 12 | m3/mo. |
| Decline Rate: | 40% | per year | Decline Rate: | 40% | per year |
| Decline Factor: | **0.0417** | per month | Decline Factor: | **0.0417** | per month |



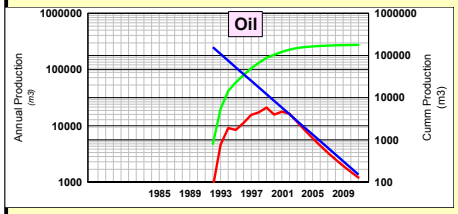
MNR Pool: **Mersea 3-4-IV**

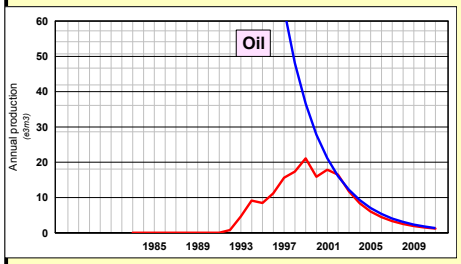
TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

No of Wells: **16**

## Annual & Cumulative Production
*(since 1983)*




**24%** Pool Decline

| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 16,470 | m3/yr | 2,227 | e3m3/yr | 21,490 | m3/yr |
| Cumm to Date: | 138,482 | m3 | 13,936 | e3m3 | 149,700 | m3 |
| Remaining Recoverable: | 44,938 | m3 | 7,535 | e3m3 | 51,587 | m3 |
| Total Recovery: | 183,420 | m3 | 21,471 | e3m3 | 201,287 | m3 |

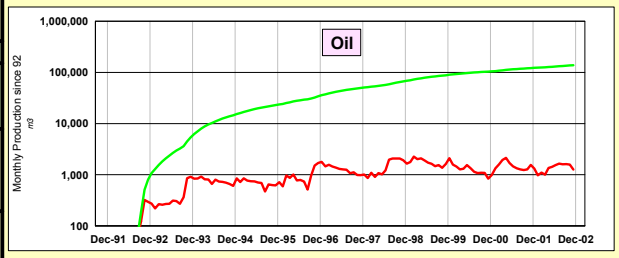
Current Rate: **41,131** m3/d **1,397** e3m3/d

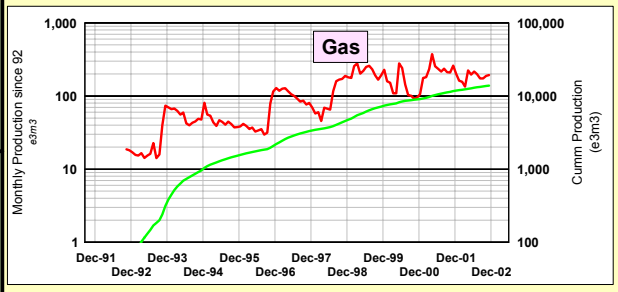
Current decline rate: annually

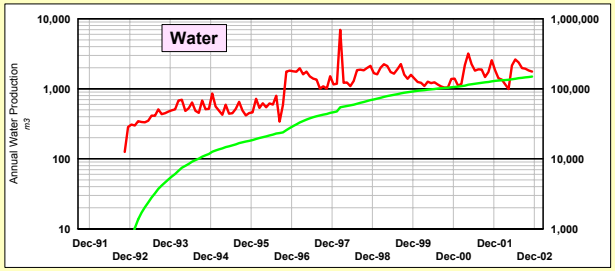
| Wells on Production | Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1992 | 806 | 37 | 412 | 806 | 37 | 412 | |
| 4 | 2 | 1993 | 4,594 | 278 | 4,679 | 5,400 | 314 | 5,091 | 60 |
| 4 | 3 | 1994 | 9,135 | 650 | 6,692 | 14,535 | 964 | 11,783 | 71 |
| 5 | 4 | 1995 | 8,451 | 567 | 6,359 | 22,986 | 1,531 | 18,142 | 67 |
| 8 | 5 | 1996 | 11,161 | 550 | 9,428 | 34,147 | 2,081 | 27,570 | 49 |
| 9 | 6 | 1997 | 15,643 | 1,246 | 17,787 | 49,790 | 3,327 | 45,357 | 80 |
| 10 | 7 | 1998 | 17,365 | 1,243 | 23,873 | 67,155 | 4,570 | 69,230 | 72 |
| 12 | 8 | 1999 | 21,105 | 2,616 | 21,830 | 88,260 | 7,186 | 91,060 | 124 |
| 12 | 9 | 2000 | 15,882 | 1,818 | 14,417 | 104,142 | 9,004 | 105,476 | 114 |
| 15 | 10 | 2001 | 17,870 | 2,705 | 22,734 | 122,012 | 11,709 | 128,210 | 151 |
| 16 | 11 | 2002 | 16,470 | 2,227 | 21,490 | 138,482 | 13,936 | 149,700 | 135 |
| | 12 | 2003 | 11,770 | 2,002 | 15,004 | 150,252 | 15,938 | 164,704 | 170 |
| | 13 | 2004 | 8,382 | 1,420 | 10,279 | 158,634 | 17,358 | 174,983 | 169 |
| | 14 | 2005 | 6,069 | 1,025 | 7,165 | 164,703 | 18,383 | 182,148 | 169 |
| | 15 | 2006 | 4,466 | 752 | 5,080 | 169,169 | 19,135 | 187,227 | 168 |
| | 16 | 2007 | 3,338 | 560 | 3,661 | 172,507 | 19,694 | 190,889 | 168 |
| | 17 | 2008 | 2,533 | 423 | 2,680 | 175,040 | 20,117 | 193,569 | 167 |
| | 18 | 2009 | 1,949 | 324 | 1,990 | 176,990 | 20,441 | 195,559 | 166 |
| | 19 | 2010 | 1,521 | 251 | 1,497 | 178,510 | 20,692 | 197,055 | 165 |
| | 20 | 2011 | 1,201 | 197 | 1,138 | 179,711 | 20,889 | 198,193 | 164 |
| | 21 | 2012 | 961 | 156 | 875 | 180,672 | 21,045 | 199,068 | 162 |
| | 22 | 2013 | 777 | 124 | 678 | 181,449 | 21,169 | 199,746 | 160 |
| | 23 | 2014 | 636 | 100 | 530 | 182,085 | 21,269 | 200,276 | 157 |
| | 24 | 2015 | 525 | 81 | 417 | 182,610 | 21,350 | 200,693 | 154 |
| | 25 | 2016 | 439 | 66 | 330 | 183,049 | 21,416 | 201,024 | 151 |
| | 26 | 2017 | 371 | 55 | 263 | 183,420 | 21,471 | 201,287 | 147 |
| | | To date: | 138,482 | 13,936 | 149,700 | | | | 0.1006 |

Revised May 27th 2004

## Monthly Production vs Month
*(1992 to 2002)*



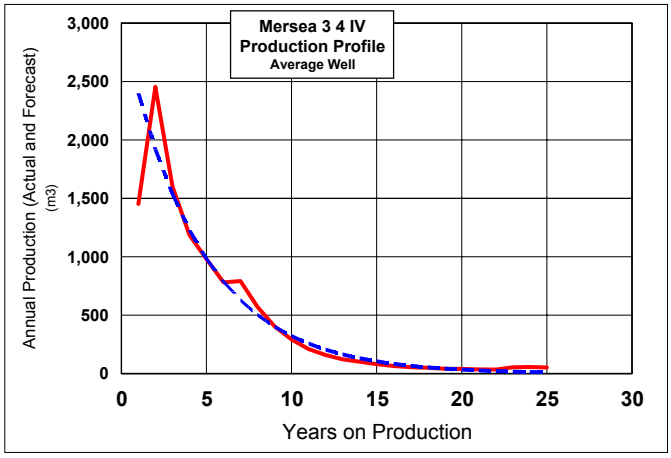
# Mersea 3-4-IV

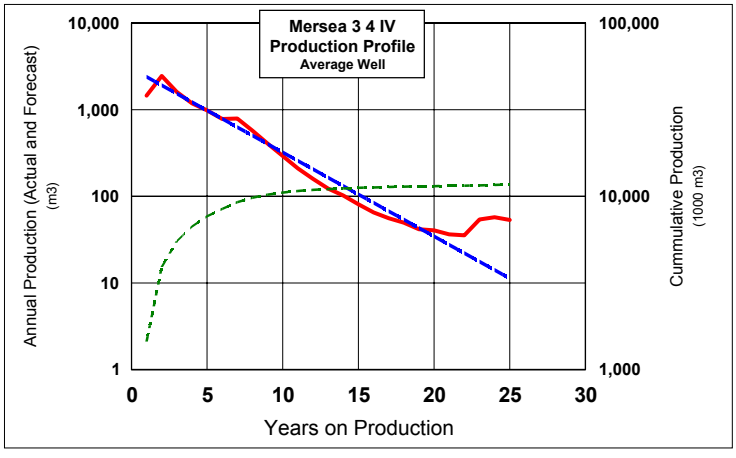
# Average Well

GOR: 147
WOR: 1.066

| Prod Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|
| 1 | 2,400 | 353 | 2,560 | 2,400 | 353 | 2,560 | 147 |
| 2 | 1,920 | 282 | 2,048 | 4,320 | 635 | 4,607 | 147 |
| 3 | 1,536 | 226 | 1,638 | 5,856 | 861 | 6,245 | 147 |
| 4 | 1,229 | 181 | 1,310 | 7,085 | 1,041 | 7,556 | 147 |
| 5 | 983 | 145 | 1,048 | 8,068 | 1,186 | 8,604 | 147 |
| 6 | 786 | 116 | 839 | 8,854 | 1,302 | 9,443 | 147 |
| 7 | 629 | 92 | 671 | 9,483 | 1,394 | 10,114 | 147 |
| 8 | 503 | 74 | 537 | 9,987 | 1,468 | 10,651 | 147 |
| 9 | 403 | 59 | 429 | 10,389 | 1,527 | 11,080 | 147 |
| 10 | 322 | 47 | 344 | 10,712 | 1,575 | 11,424 | 147 |
| 11 | 258 | 38 | 275 | 10,969 | 1,612 | 11,698 | 147 |
| 12 | 206 | 30 | 220 | 11,175 | 1,643 | 11,918 | 147 |
| 13 | 165 | 24 | 176 | 11,340 | 1,667 | 12,094 | 147 |
| 14 | 132 | 19 | 141 | 11,472 | 1,686 | 12,235 | 147 |
| 15 | 106 | 16 | 113 | 11,578 | 1,702 | 12,347 | 147 |
| 16 | 84 | 12 | 90 | 11,662 | 1,714 | 12,438 | 147 |
| 17 | 68 | 10 | 72 | 11,730 | 1,724 | 12,510 | 147 |
| 18 | 54 | 8 | 58 | 11,784 | 1,732 | 12,567 | 147 |
| 19 | 43 | 6 | 46 | 11,827 | 1,739 | 12,613 | 147 |
| 20 | 35 | 5 | 37 | 11,862 | 1,744 | 12,650 | 147 |
| 21 | 28 | 4 | 30 | 11,889 | 1,748 | 12,680 | 147 |
| 22 | 22 | 3 | 24 | 11,911 | 1,751 | 12,703 | 147 |
| 23 | 18 | 3 | 19 | 11,929 | 1,754 | 12,722 | 147 |
| 24 | 14 | 2 | 15 | 11,943 | 1,756 | 12,737 | 147 |
| 25 | 11 | 2 | 12 | 11,955 | 1,757 | 12,749 | 147 |
| 26 | 9 | 1 | 10 | 11,964 | 1,759 | 12,759 | 147 |
| 27 | 7 | 1 | 8 | 11,971 | 1,760 | 12,767 | 147 |
| 28 | 6 | 1 | 6 | 11,977 | 1,761 | 12,773 | 147 |
| 29 | 5 | 1 | 5 | 11,981 | 1,761 | 12,778 | 147 |
| 30 | 4 | 1 | 4 | 11,985 | 1,762 | 12,782 | 147 |
| 31 | 3 | 0 | 3 | 11,988 | 1,762 | 12,785 | 147 |
| 32 | 2 | 0 | 3 | 11,990 | 1,763 | 12,788 | 147 |
| | 11,990 | 1,763 | 12,788 | | | | |

| Average Well Oil | | |
|---|---|---|
| Start: | 2400 | m3 per year |
| Decline Rate | 20.0% | per year |
| Decline Facto | 0.0184 | per month |
| Recovery | 11,990 | m3 |



Well No.: **T010495**

Well Name: **TLM No.1(Horiz.#1), Mersea 7 - 6 - IV**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T010495**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 725 | m3 per m3 | 725 | last year | |
| 2002 Water/Oil ratio: | 1.8051 | m3 per m3 | 1.8051 | last 10 years | |
| 2002 Water/ Gas Ratio: | 2.4912 | m3 per e3m3 | 2.4912 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **71** | m3/yr | **51** | e3m3/yr | **128** | m3/yr |
| Cumm to Date: | **71** | m3 | **51** | e3m3 | **128** | m3 |
| Remaining Recoverable: | **1,004** | m3 | **703** | e3m3 | **1,812** | m3 |
| Total Recovery: | **1,075** | m3 | **754** | e3m3 | **1,940** | m3 |
| Peak Rate: | 0.5 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 0.8 | m3/d | 0.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.5 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.2 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

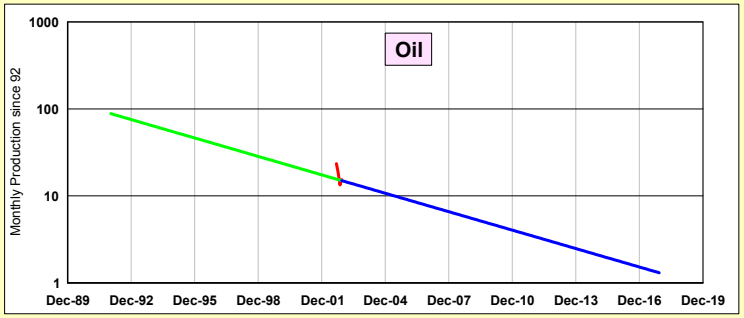
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2001 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2002 | 71 | 51 | 128 | 71 | 51 | 128 | 725 |
| 2 | 2003 | 165 | 116 | 298 | 236 | 167 | 426 | 700 |
| 3 | 2004 | 140 | 98 | 253 | 376 | 265 | 679 | 700 |
| 4 | 2005 | 119 | 83 | 215 | 495 | 348 | 894 | 700 |
| 5 | 2006 | 101 | 71 | 183 | 597 | 419 | 1,077 | 700 |
| 6 | 2007 | 86 | 60 | 155 | 683 | 480 | 1,232 | 700 |
| 7 | 2008 | 73 | 51 | 132 | 756 | 531 | 1,365 | 700 |
| 8 | 2009 | 62 | 44 | 112 | 818 | 574 | 1,477 | 700 |
| 9 | 2010 | 53 | 37 | 95 | 871 | 612 | 1,572 | 700 |
| 10 | 2011 | 45 | 31 | 81 | 916 | 643 | 1,654 | 700 |
| 11 | 2012 | 38 | 27 | 69 | 954 | 670 | 1,723 | 700 |
| 12 | 2013 | 32 | 23 | 59 | 987 | 692 | 1,781 | 700 |
| 13 | 2014 | 28 | 19 | 50 | 1,014 | 712 | 1,831 | 700 |
| 14 | 2015 | 23 | 16 | 42 | 1,038 | 728 | 1,873 | 700 |
| 15 | 2016 | 20 | 14 | 36 | 1,058 | 742 | 1,909 | 700 |
| 16 | 2017 | 17 | 12 | 31 | 1,075 | 754 | 1,940 | 700 |

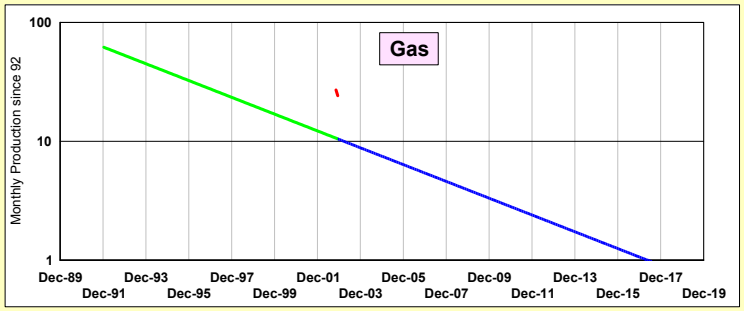
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

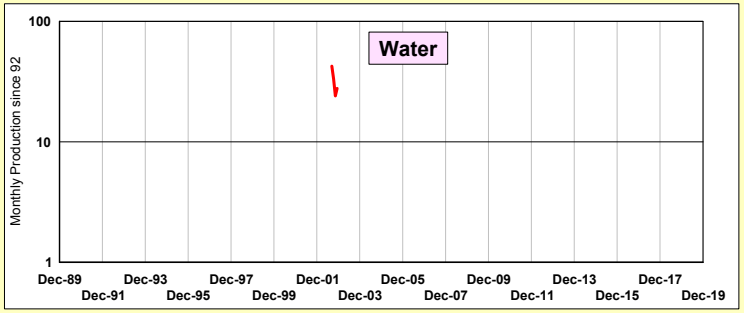
## Monthly Production vs Month + Forecast
*(since 1992)*

724.576271 **Basis--->** **Oil** 5.9

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 700 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 15 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T010142**

Well Name: **TLM No.1 (Horiz.#1), Mersea 1 - 3 - V**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T010142**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 99 | m3 per m3 | 103 | last year | |
| 2002 Water/Oil ratio: | 2.3251 | m3 per m3 | 2.4002 | last 10 years | |
| 2002 Water/ Gas Ratio: | 22.6100 | m3 per e3m3 | 24.2388 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,618** | m3/yr | **166** | e3m3/yr | **3,762** | m3/yr |
| Cumm to Date: | **2,225** | m3 | **220** | e3m3 | **5,340** | m3 |
| Remaining Recoverable: | **6,168** | m3 | **1,851** | e3m3 | **14,343** | m3 |
| Total Recovery: | **8,393** | m3 | **2,071** | e3m3 | **19,682** | m3 |
| Peak Rate: | 4.4 | m3/d | 0.5 | e3m3/d | based on annual | |
| Peak Rate: | 15.5 | m3/d | 1.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 4.4 | m3/d | 0.5 | e3m3/d | per day based on annual | |
| Current Rate: | 4.4 | m3/d | 0.5 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

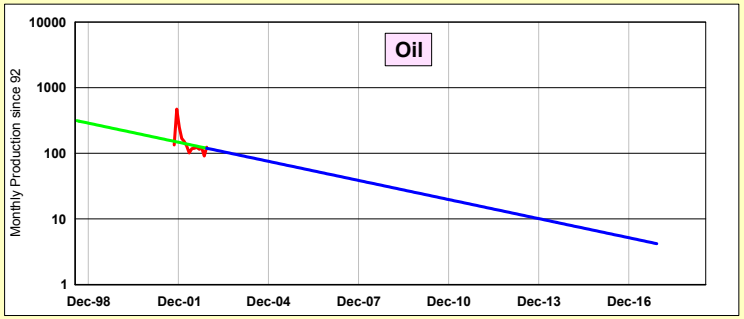
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2001 | 607 | 54 | 1,578 | 607 | 54 | 1,578 | 89 |
| 2 | 2002 | 1,618 | 166 | 3,762 | 2,225 | 220 | 5,340 | 103 |
| 3 | 2003 | 1,279 | 384 | 2,973 | 3,503 | 604 | 8,313 | 300 |
| 4 | 2004 | 1,023 | 307 | 2,378 | 4,526 | 911 | 10,691 | 300 |
| 5 | 2005 | 818 | 246 | 1,903 | 5,345 | 1,156 | 12,594 | 300 |
| 6 | 2006 | 655 | 196 | 1,522 | 5,999 | 1,353 | 14,116 | 300 |
| 7 | 2007 | 524 | 157 | 1,218 | 6,523 | 1,510 | 15,334 | 300 |
| 8 | 2008 | 419 | 126 | 974 | 6,942 | 1,636 | 16,308 | 300 |
| 9 | 2009 | 335 | 101 | 779 | 7,277 | 1,736 | 17,088 | 300 |
| 10 | 2010 | 268 | 80 | 624 | 7,545 | 1,817 | 17,711 | 300 |
| 11 | 2011 | 215 | 64 | 499 | 7,760 | 1,881 | 18,210 | 300 |
| 12 | 2012 | 172 | 51 | 399 | 7,932 | 1,932 | 18,609 | 300 |
| 13 | 2013 | 137 | 41 | 319 | 8,069 | 1,974 | 18,928 | 300 |
| 14 | 2014 | 110 | 33 | 255 | 8,179 | 2,007 | 19,184 | 300 |
| 15 | 2015 | 88 | 26 | 204 | 8,267 | 2,033 | 19,388 | 300 |
| 16 | 2016 | 70 | 21 | 163 | 8,337 | 2,054 | 19,552 | 300 |
| 17 | 2017 | 56 | 17 | 131 | 8,393 | 2,071 | 19,682 | 300 |

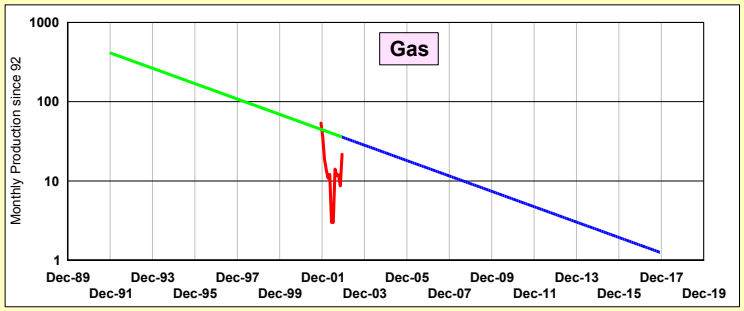
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

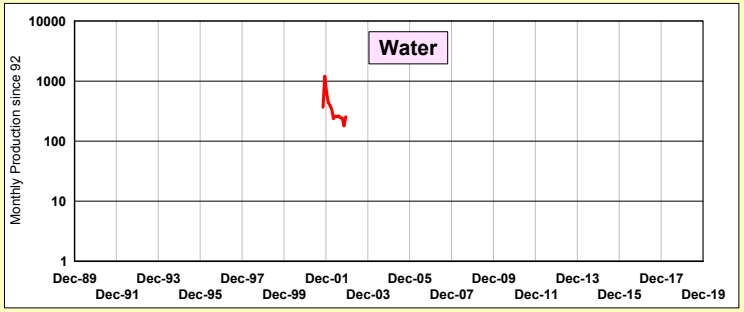
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 300 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 120 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T009750**

Well Name: **Talisman (Horiz. #1), Mersea 7 - 5 - IV**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T009750**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 149 | m3 per m3 | 153 | last year | |
| 2002 Water/Oil ratio: | 0.3836 | m3 per m3 | 0.3431 | last 10 years | |
| 2002 Water/ Gas Ratio: | 2.5105 | m3 per e3m3 | 2.2972 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **3,328** | m3/yr | **509** | e3m3/yr | **1,277** | m3/yr |
| Cumm to Date: | **9,556** | m3 | **1,427** | e3m3 | **3,279** | m3 |
| Remaining Recoverable: | **6,829** | m3 | **1,024** | e3m3 | **2,620** | m3 |
| Total Recovery: | **16,385** | m3 | **2,452** | e3m3 | **5,898** | m3 |
| Peak Rate: | 17.1 | m3/d | 2.5 | e3m3/d | based on annual | |
| Peak Rate: | 23.8 | m3/d | 3.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 9.1 | m3/d | 1.4 | e3m3/d | per day based on annual | |
| Current Rate: | 9.1 | m3/d | 1.4 | e3m3/d | | |
| Current decline rate: | 35% | | annually | | | |

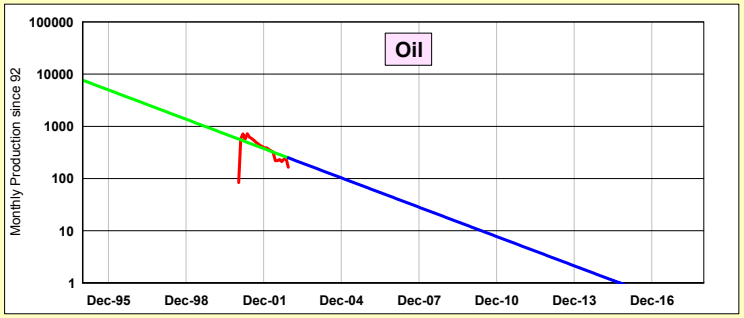
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2001 | 6,228 | 919 | 2,002 | 6,228 | 919 | 2,002 | 148 |
| 2 | 2002 | 3,328 | 509 | 1,277 | 9,556 | 1,427 | 3,279 | 153 |
| 3 | 2003 | 2,394 | 359 | 918 | 11,950 | 1,786 | 4,197 | 150 |
| 4 | 2004 | 1,556 | 233 | 597 | 13,506 | 2,020 | 4,794 | 150 |
| 5 | 2005 | 1,011 | 152 | 388 | 14,517 | 2,172 | 5,182 | 150 |
| 6 | 2006 | 657 | 99 | 252 | 15,175 | 2,270 | 5,434 | 150 |
| 7 | 2007 | 427 | 64 | 164 | 15,602 | 2,334 | 5,598 | 150 |
| 8 | 2008 | 278 | 42 | 107 | 15,880 | 2,376 | 5,705 | 150 |
| 9 | 2009 | 181 | 27 | 69 | 16,061 | 2,403 | 5,774 | 150 |
| 10 | 2010 | 117 | 18 | 45 | 16,178 | 2,421 | 5,819 | 150 |
| 11 | 2011 | 76 | 11 | 29 | 16,254 | 2,432 | 5,848 | 150 |
| 12 | 2012 | 50 | 7 | 19 | 16,304 | 2,439 | 5,867 | 150 |
| 13 | 2013 | 32 | 5 | 12 | 16,336 | 2,444 | 5,880 | 150 |
| 14 | 2014 | 21 | 3 | 8 | 16,357 | 2,447 | 5,888 | 150 |
| 15 | 2015 | 14 | 2 | 5 | 16,371 | 2,449 | 5,893 | 150 |
| 16 | 2016 | 9 | 1 | 3 | 16,379 | 2,451 | 5,896 | 150 |
| 17 | 2017 | 6 | 1 | 2 | 16,385 | 2,452 | 5,898 | 150 |

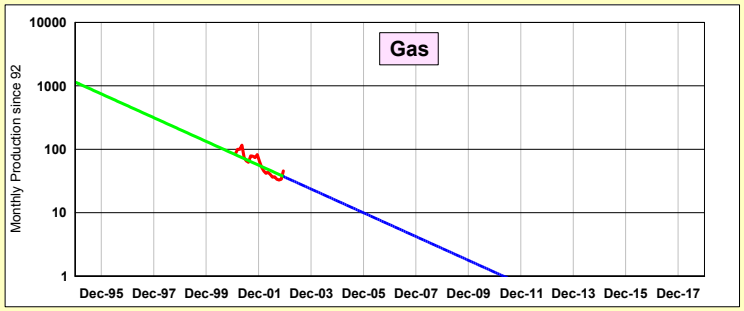
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

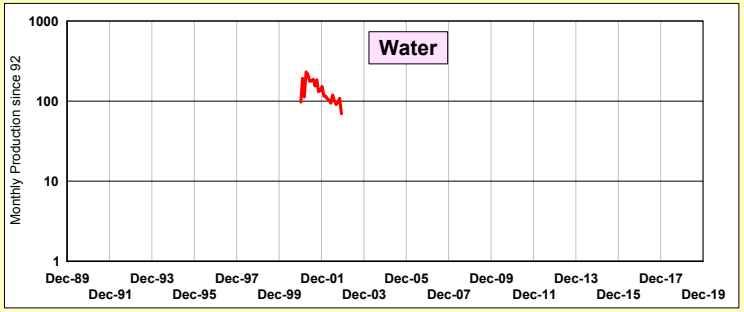
## Monthly Production vs Month + Forecast
*(since 1992)*

152.794471 **Basis--->** **Oil** 277.1

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 150 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 250 | m3/mo. |
| Decline Rate: | 35% | per year | Decline Rate: | 35% | per year |
| Decline Factor: | **0.0353** | per month | Decline Factor: | **0.0353** | per month |



Well No.: **T009605**

Well Name: **Talisman (Horiz.#1), Mersea 1 - 2 - VI**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T009605**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 440 | m3 per m3 | 1,110 | last year | |
| 2002 Water/Oil ratio: | 8.5675 | m3 per m3 | 4.8830 | last 10 years | |
| 2002 Water/ Gas Ratio: | 7.7185 | m3 per e3m3 | 11.1007 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **268** | m3/yr | **298** | e3m3/yr | **2,298** | m3/yr |
| Cumm to Date: | **1,948** | m3 | **857** | e3m3 | **9,511** | m3 |
| Remaining Recoverable: | **506** | m3 | **556** | e3m3 | **4,332** | m3 |
| Total Recovery: | **2,453** | m3 | **1,413** | e3m3 | **13,843** | m3 |
| Peak Rate: | 4.6 | m3/d | 1.5 | e3m3/d | based on annual | |
| Peak Rate: | 20.4 | m3/d | 4.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.7 | m3/d | 0.8 | e3m3/d | per day based on annual | |
| Current Rate: | 0.7 | m3/d | 0.8 | e3m3/d | | |
| Current decline rate: | 40% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2001 | 1,680 | 559 | 7,213 | 1,680 | 559 | 7,213 | 333 |
| 2 | 2002 | 268 | 298 | 2,298 | 1,948 | 857 | 9,511 | 1,110 |
| 3 | 2003 | 202 | 223 | 1,734 | 2,150 | 1,079 | 11,245 | 1,100 |
| 4 | 2004 | 121 | 134 | 1,040 | 2,272 | 1,213 | 12,285 | 1,100 |
| 5 | 2005 | 73 | 80 | 624 | 2,344 | 1,293 | 12,909 | 1,100 |
| 6 | 2006 | 44 | 48 | 374 | 2,388 | 1,341 | 13,284 | 1,100 |
| 7 | 2007 | 26 | 29 | 225 | 2,414 | 1,370 | 13,508 | 1,100 |
| 8 | 2008 | 16 | 17 | 135 | 2,430 | 1,387 | 13,643 | 1,100 |
| 9 | 2009 | 9 | 10 | 81 | 2,440 | 1,398 | 13,724 | 1,100 |
| 10 | 2010 | 6 | 6 | 49 | 2,445 | 1,404 | 13,772 | 1,100 |
| 11 | 2011 | 3 | 4 | 29 | 2,449 | 1,408 | 13,802 | 1,100 |
| 12 | 2012 | 2 | 2 | 17 | 2,451 | 1,410 | 13,819 | 1,100 |
| 13 | 2013 | 1 | 1 | 10 | 2,452 | 1,411 | 13,830 | 1,100 |
| 14 | 2014 | 1 | 1 | 6 | 2,453 | 1,412 | 13,836 | 1,100 |
| 15 | 2015 | 0 | 0 | 4 | 2,453 | 1,413 | 13,840 | 1,100 |
| 16 | 2016 | 0 | 0 | 2 | 2,453 | 1,413 | 13,842 | 1,100 |
| 17 | 2017 | 0 | 0 | 1 | 2,453 | 1,413 | 13,843 | 1,100 |

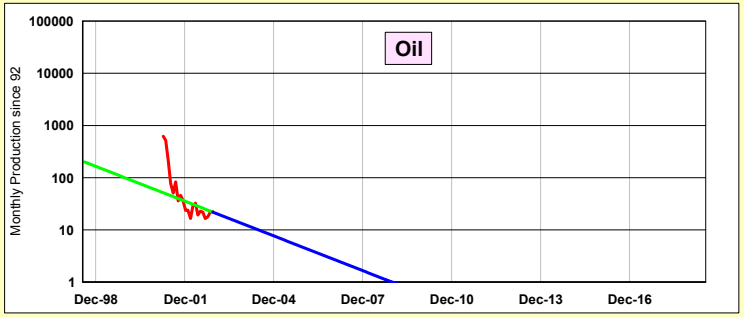
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

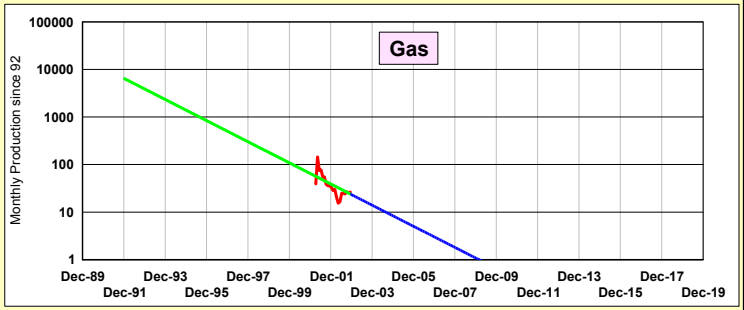
Revised May 27th 2004

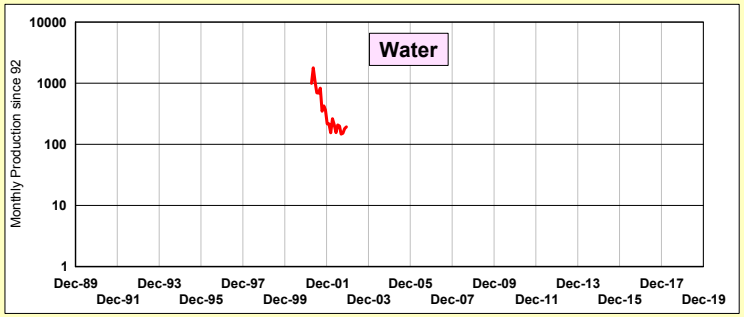
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 1100 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 22 | m3/mo. |
| Decline Rate: | 40% | per year | Decline Rate: | 40% | per year |
| Decline Factor: | **0.0417** | per month | Decline Factor: | **0.0417** | per month |



Well No.: **T009115**

Well Name: **Talisman (Horiz.#2), Mersea 6 - 4 - V**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T009115**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 160 | m3 per m3 | 106 | last year | |
| 2002 Water/Oil ratio: | 0.1135 | m3 per m3 | 0.1014 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.0667 | m3 per e3m3 | 0.6356 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **775** | m3/yr | **82** | e3m3/yr | **88** | m3/yr |
| Cumm to Date: | **5,644** | m3 | **901** | e3m3 | **573** | m3 |
| Remaining Recoverable: | **2,056** | m3 | **617** | e3m3 | **233** | m3 |
| Total Recovery: | **7,700** | m3 | **1,518** | e3m3 | **806** | m3 |
| Peak Rate: | 9.8 | m3/d | 1.8 | e3m3/d | based on annual | |
| Peak Rate: | 29.5 | m3/d | 6.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 9.8 | m3/d | 1.8 | e3m3/d | per day based on annual | |
| Current Rate: | 2.1 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

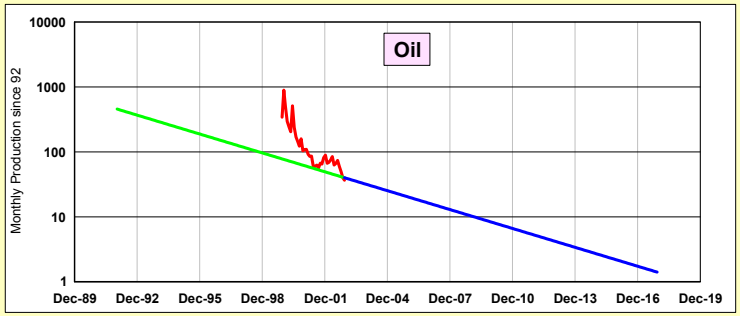
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1999 | 343 | 45 | 52 | 343 | 45 | 52 | 132 |
| 2 | 2000 | 3,591 | 654 | 312 | 3,934 | 699 | 364 | 182 |
| 3 | 2001 | 936 | 119 | 121 | 4,870 | 819 | 485 | 128 |
| 4 | 2002 | 775 | 82 | 88 | 5,644 | 901 | 573 | 106 |
| 5 | 2003 | 426 | 128 | 48 | 6,070 | 1,029 | 621 | 300 |
| 6 | 2004 | 341 | 102 | 39 | 6,411 | 1,131 | 660 | 300 |
| 7 | 2005 | 273 | 82 | 31 | 6,684 | 1,213 | 691 | 300 |
| 8 | 2006 | 218 | 65 | 25 | 6,902 | 1,278 | 715 | 300 |
| 9 | 2007 | 175 | 52 | 20 | 7,077 | 1,331 | 735 | 300 |
| 10 | 2008 | 140 | 42 | 16 | 7,217 | 1,373 | 751 | 300 |
| 11 | 2009 | 112 | 34 | 13 | 7,328 | 1,406 | 764 | 300 |
| 12 | 2010 | 89 | 27 | 10 | 7,418 | 1,433 | 774 | 300 |
| 13 | 2011 | 72 | 21 | 8 | 7,489 | 1,454 | 782 | 300 |
| 14 | 2012 | 57 | 17 | 6 | 7,547 | 1,472 | 788 | 300 |
| 15 | 2013 | 46 | 14 | 5 | 7,592 | 1,485 | 794 | 300 |
| 16 | 2014 | 37 | 11 | 4 | 7,629 | 1,496 | 798 | 300 |
| 17 | 2015 | 29 | 9 | 3 | 7,658 | 1,505 | 801 | 300 |
| 18 | 2016 | 23 | 7 | 3 | 7,682 | 1,512 | 804 | 300 |
| 19 | 2017 | 19 | 6 | 2 | 7,700 | 1,518 | 806 | 300 |

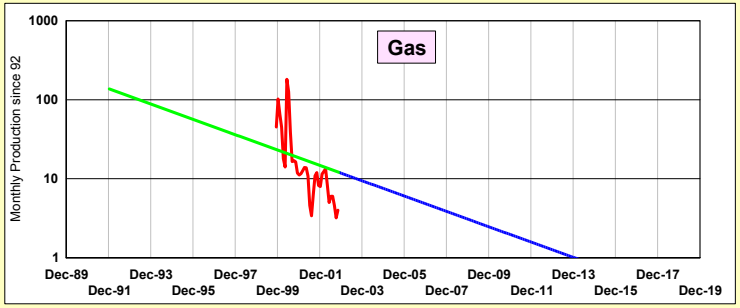
Well No.: **0**

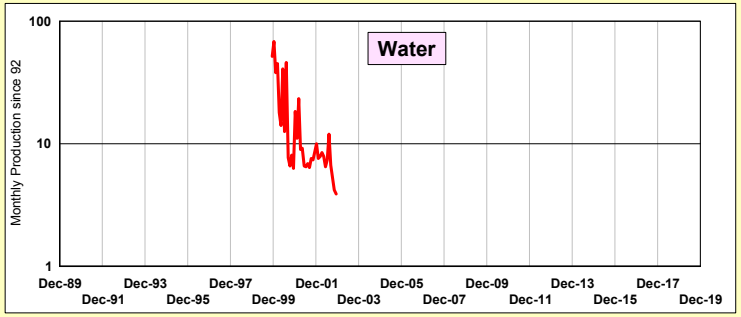
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 300 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 40 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008836**

Well Name: **Talisman (Horiz. #1), Mersea 6 - 4 - V**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008836**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 189 | m3 per m3 | 307 | last year | |
| 2002 Water/Oil ratio: | 0.4235 | m3 per m3 | 0.5219 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.3817 | m3 per e3m3 | 2.7653 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **506** | m3/yr | **155** | e3m3/yr | **214** | m3/yr |
| Cumm to Date: | **3,144** | m3 | **593** | e3m3 | **1,641** | m3 |
| Remaining Recoverable: | **1,423** | m3 | **427** | e3m3 | **603** | m3 |
| Total Recovery: | **4,567** | m3 | **1,020** | e3m3 | **2,244** | m3 |
| Peak Rate: | 3.7 | m3/d | 0.5 | e3m3/d | based on annual | |
| Peak Rate: | 7.0 | m3/d | 0.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.0 | m3/d | 0.3 | e3m3/d | per day based on annual | |
| Current Rate: | 1.4 | m3/d | 0.4 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

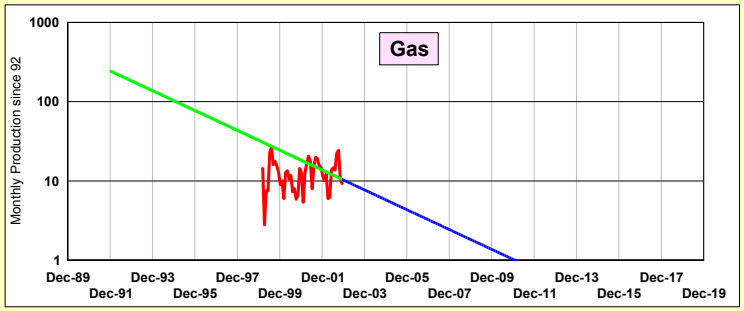
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1999 | 1,368 | 144 | 843 | 1,368 | 144 | 843 | 105 |
| 2 | 2000 | 726 | 116 | 353 | 2,095 | 260 | 1,196 | 160 |
| 3 | 2001 | 544 | 179 | 231 | 2,638 | 438 | 1,427 | 329 |
| 4 | 2002 | 506 | 155 | 214 | 3,144 | 593 | 1,641 | 307 |
| 5 | 2003 | 361 | 108 | 153 | 3,505 | 702 | 1,794 | 300 |
| 6 | 2004 | 270 | 81 | 115 | 3,775 | 783 | 1,908 | 300 |
| 7 | 2005 | 203 | 61 | 86 | 3,978 | 844 | 1,994 | 300 |
| 8 | 2006 | 152 | 46 | 64 | 4,130 | 889 | 2,059 | 300 |
| 9 | 2007 | 114 | 34 | 48 | 4,244 | 923 | 2,107 | 300 |
| 10 | 2008 | 86 | 26 | 36 | 4,330 | 949 | 2,143 | 300 |
| 11 | 2009 | 64 | 19 | 27 | 4,394 | 968 | 2,170 | 300 |
| 12 | 2010 | 48 | 14 | 20 | 4,442 | 983 | 2,191 | 300 |
| 13 | 2011 | 36 | 11 | 15 | 4,478 | 994 | 2,206 | 300 |
| 14 | 2012 | 27 | 8 | 11 | 4,505 | 1,002 | 2,217 | 300 |
| 15 | 2013 | 20 | 6 | 9 | 4,526 | 1,008 | 2,226 | 300 |
| 16 | 2014 | 15 | 5 | 6 | 4,541 | 1,012 | 2,232 | 300 |
| 17 | 2015 | 11 | 3 | 5 | 4,552 | 1,016 | 2,237 | 300 |
| 18 | 2016 | 9 | 3 | 4 | 4,561 | 1,018 | 2,241 | 300 |
| 19 | 2017 | 6 | 2 | 3 | 4,567 | 1,020 | 2,244 | 300 |

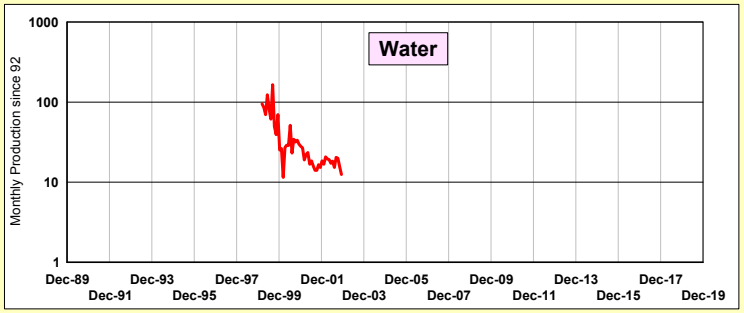
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 300 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 35 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T008759**

Well Name: **Talisman (Horiz.#1), Mersea 3 - 3 - V**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008759**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 131 | m3 per m3 | 82 | last year | |
| 2002 Water/Oil ratio: | 1.6624 | m3 per m3 | 0.9657 | last 10 years | |
| 2002 Water/ Gas Ratio: | 20.3596 | m3 per e3m3 | 7.3824 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **2,936** | m3/yr | **240** | e3m3/yr | **4,880** | m3/yr |
| Cumm to Date: | **26,529** | m3 | **3,470** | e3m3 | **25,618** | m3 |
| Remaining Recoverable: | **6,100** | m3 | **488** | e3m3 | **10,140** | m3 |
| Total Recovery: | **32,629** | m3 | **3,958** | e3m3 | **35,758** | m3 |
| Peak Rate: | 28.2 | m3/d | 4.7 | e3m3/d | based on annual | |
| Peak Rate: | 37.8 | m3/d | 6.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 28.2 | m3/d | 4.7 | e3m3/d | per day based on annual | |
| Current Rate: | 8.0 | m3/d | 0.7 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

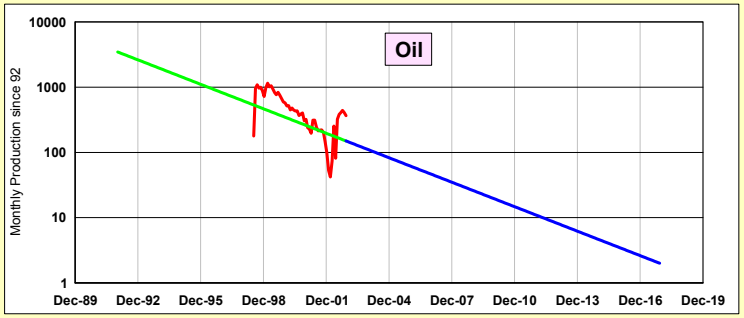
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1998 | 5,093 | 368 | 4,184 | 5,093 | 368 | 4,184 | 72 |
| 2 | 1999 | 10,315 | 1,715 | 7,884 | 15,408 | 2,083 | 12,068 | 166 |
| 3 | 2000 | 5,323 | 659 | 4,911 | 20,731 | 2,741 | 16,979 | 124 |
| 4 | 2001 | 2,863 | 489 | 3,759 | 23,593 | 3,231 | 20,738 | 171 |
| 5 | 2002 | 2,936 | 240 | 4,880 | 26,529 | 3,470 | 25,618 | 82 |
| 6 | 2003 | 1,546 | 124 | 2,569 | 28,075 | 3,594 | 28,188 | 80 |
| 7 | 2004 | 1,159 | 93 | 1,927 | 29,234 | 3,687 | 30,115 | 80 |
| 8 | 2005 | 869 | 70 | 1,445 | 30,103 | 3,756 | 31,560 | 80 |
| 9 | 2006 | 652 | 52 | 1,084 | 30,755 | 3,808 | 32,644 | 80 |
| 10 | 2007 | 489 | 39 | 813 | 31,244 | 3,847 | 33,457 | 80 |
| 11 | 2008 | 367 | 29 | 610 | 31,611 | 3,877 | 34,067 | 80 |
| 12 | 2009 | 275 | 22 | 457 | 31,886 | 3,899 | 34,524 | 80 |
| 13 | 2010 | 206 | 17 | 343 | 32,092 | 3,915 | 34,867 | 80 |
| 14 | 2011 | 155 | 12 | 257 | 32,247 | 3,928 | 35,124 | 80 |
| 15 | 2012 | 116 | 9 | 193 | 32,363 | 3,937 | 35,317 | 80 |
| 16 | 2013 | 87 | 7 | 145 | 32,450 | 3,944 | 35,462 | 80 |
| 17 | 2014 | 65 | 5 | 109 | 32,515 | 3,949 | 35,570 | 80 |
| 18 | 2015 | 49 | 4 | 81 | 32,564 | 3,953 | 35,652 | 80 |
| 19 | 2016 | 37 | 3 | 61 | 32,601 | 3,956 | 35,713 | 80 |
| 20 | 2017 | 28 | 2 | 46 | 32,629 | 3,958 | 35,758 | 80 |

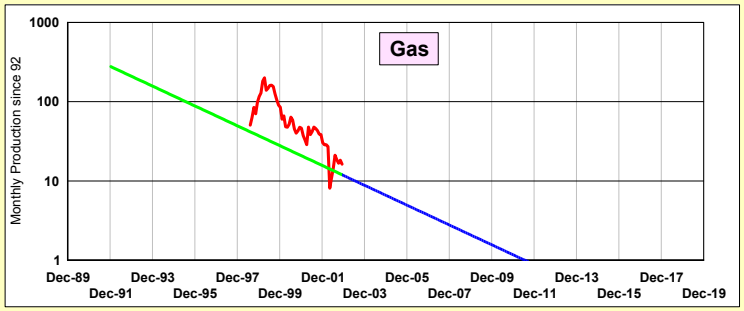
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

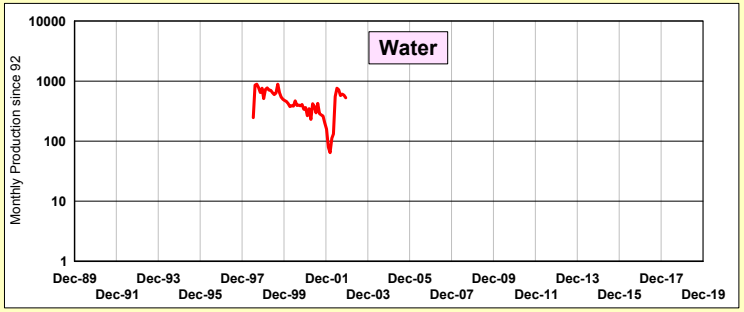
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 80 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 150 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T008444**

Well Name: **Pembina et al (Horiz. #1), Mersea 4 - 2 - V**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008444**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 108 | m3 per m3 | 129 | last year | |
| 2002 Water/Oil ratio: | 0.6176 | m3 per m3 | 1.9472 | last 10 years | |
| 2002 Water/ Gas Ratio: | 4.8035 | m3 per e3m3 | 17.9729 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **3,666** | m3/yr | **471** | e3m3/yr | **2,264** | m3/yr |
| Cumm to Date: | **17,327** | m3 | **1,877** | e3m3 | **33,739** | m3 |
| Remaining Recoverable: | **6,895** | m3 | **896** | e3m3 | **4,259** | m3 |
| Total Recovery: | **24,222** | m3 | **2,774** | e3m3 | **37,997** | m3 |
| Peak Rate: | 14.6 | m3/d | 1.6 | e3m3/d | based on annual | |
| Peak Rate: | 28.2 | m3/d | 3.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 14.6 | m3/d | 1.6 | e3m3/d | per day based on annual | |
| Current Rate: | 10.0 | m3/d | 1.3 | e3m3/d | | |
| Current decline rate: | 40% | | annually | | | |

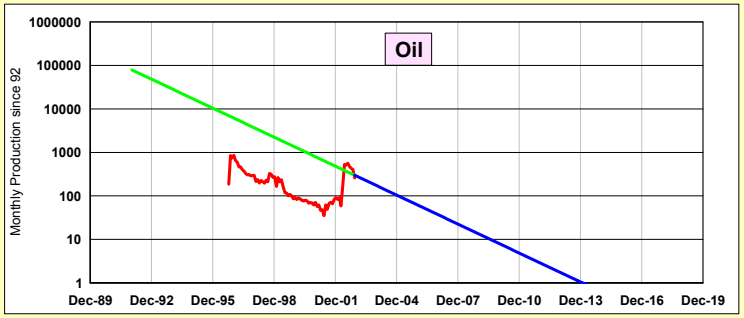
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1996 | 1,786 | 106 | 2,234 | 1,786 | 106 | 2,234 | 59 |
| 2 | 1997 | 5,334 | 597 | 10,235 | 7,120 | 703 | 12,468 | 112 |
| 3 | 1998 | 2,938 | 318 | 7,489 | 10,058 | 1,022 | 19,957 | 108 |
| 4 | 1999 | 1,949 | 238 | 5,630 | 12,007 | 1,259 | 25,587 | 122 |
| 5 | 2000 | 934 | 78 | 3,037 | 12,940 | 1,338 | 28,624 | 84 |
| 6 | 2001 | 721 | 68 | 2,851 | 13,662 | 1,406 | 31,475 | 95 |
| 7 | 2002 | 3,666 | 471 | 2,264 | 17,327 | 1,877 | 33,739 | 129 |
| 8 | 2003 | 2,759 | 359 | 1,704 | 20,087 | 2,236 | 35,443 | 130 |
| 9 | 2004 | 1,656 | 215 | 1,023 | 21,742 | 2,451 | 36,465 | 130 |
| 10 | 2005 | 993 | 129 | 614 | 22,736 | 2,580 | 37,079 | 130 |
| 11 | 2006 | 596 | 77 | 368 | 23,332 | 2,658 | 37,447 | 130 |
| 12 | 2007 | 358 | 46 | 221 | 23,689 | 2,704 | 37,668 | 130 |
| 13 | 2008 | 215 | 28 | 133 | 23,904 | 2,732 | 37,800 | 130 |
| 14 | 2009 | 129 | 17 | 80 | 24,033 | 2,749 | 37,880 | 130 |
| 15 | 2010 | 77 | 10 | 48 | 24,110 | 2,759 | 37,928 | 130 |
| 16 | 2011 | 46 | 6 | 29 | 24,156 | 2,765 | 37,956 | 130 |
| 17 | 2012 | 28 | 4 | 17 | 24,184 | 2,769 | 37,973 | 130 |
| 18 | 2013 | 17 | 2 | 10 | 24,201 | 2,771 | 37,984 | 130 |
| 19 | 2014 | 10 | 1 | 6 | 24,211 | 2,772 | 37,990 | 130 |
| 20 | 2015 | 6 | 1 | 4 | 24,217 | 2,773 | 37,994 | 130 |
| 21 | 2016 | 4 | 0 | 2 | 24,220 | 2,773 | 37,996 | 130 |
| 22 | 2017 | 2 | 0 | 1 | 24,222 | 2,774 | 37,997 | 130 |

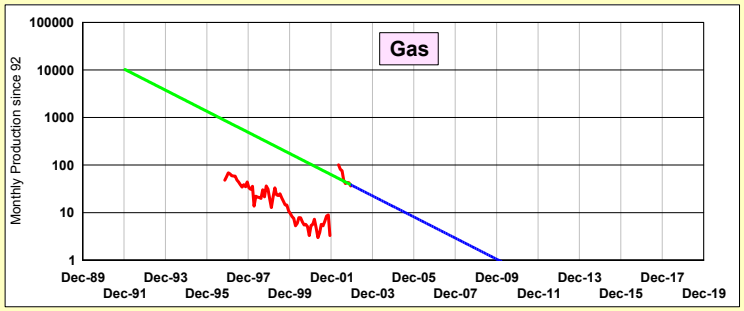
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

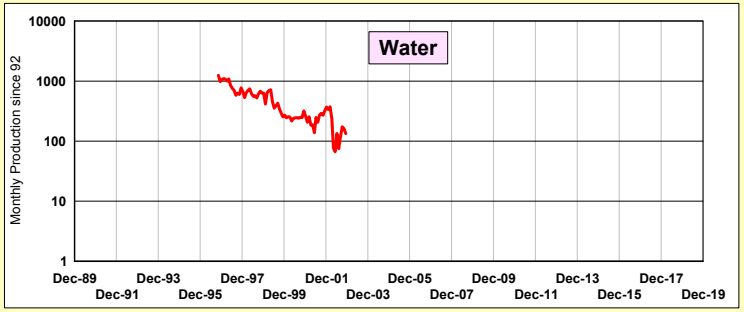
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **OIl**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 130 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 300 | m3/mo. |
| Decline Rate: | 40% | per year | Decline Rate: | 40% | per year |
| Decline Factor: | **0.0417** | per month | Decline Factor: | **0.0417** | per month |



Well No.: **T008407**

Well Name: **Pembina et al, Mersea 3 - 6 - IV**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008407**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 123 | m3 per m3 | 125 | last year | |
| 2002 Water/Oil ratio: | 1.4451 | m3 per m3 | 0.6166 | last 10 years | |
| 2002 Water/ Gas Ratio: | 11.5915 | m3 per e3m3 | 4.9940 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **302** | m3/yr | **38** | e3m3/yr | **437** | m3/yr |
| Cumm to Date: | **1,884** | m3 | **233** | e3m3 | **1,162** | m3 |
| Remaining Recoverable: | **895** | m3 | **112** | e3m3 | **1,293** | m3 |
| Total Recovery: | **2,779** | m3 | **344** | e3m3 | **2,454** | m3 |
| Peak Rate: | 1.2 | m3/d | 0.2 | e3m3/d | based on annual | |
| Peak Rate: | 3.0 | m3/d | 0.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.2 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.8 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

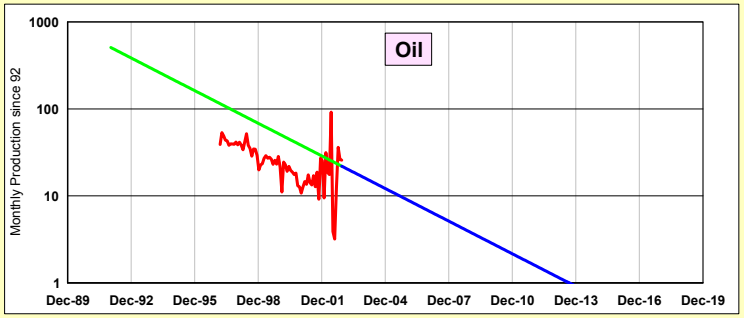
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1997 | 427 | 65 | 209 | 427 | 65 | 209 | 152 |
| 2 | 1998 | 447 | 42 | 195 | 874 | 106 | 403 | 93 |
| 3 | 1999 | 304 | 41 | 133 | 1,178 | 148 | 536 | 136 |
| 4 | 2000 | 221 | 35 | 93 | 1,400 | 182 | 629 | 156 |
| 5 | 2001 | 182 | 12 | 96 | 1,582 | 195 | 725 | 69 |
| 6 | 2002 | 302 | 38 | 437 | 1,884 | 233 | 1,162 | 125 |
| 7 | 2003 | 227 | 28 | 328 | 2,111 | 261 | 1,489 | 125 |
| 8 | 2004 | 170 | 21 | 246 | 2,281 | 282 | 1,735 | 125 |
| 9 | 2005 | 128 | 16 | 184 | 2,408 | 298 | 1,919 | 125 |
| 10 | 2006 | 96 | 12 | 138 | 2,504 | 310 | 2,057 | 125 |
| 11 | 2007 | 72 | 9 | 104 | 2,575 | 319 | 2,161 | 125 |
| 12 | 2008 | 54 | 7 | 78 | 2,629 | 326 | 2,239 | 125 |
| 13 | 2009 | 40 | 5 | 58 | 2,670 | 331 | 2,297 | 125 |
| 14 | 2010 | 30 | 4 | 44 | 2,700 | 335 | 2,341 | 125 |
| 15 | 2011 | 23 | 3 | 33 | 2,723 | 337 | 2,374 | 125 |
| 16 | 2012 | 17 | 2 | 25 | 2,740 | 340 | 2,398 | 125 |
| 17 | 2013 | 13 | 2 | 18 | 2,752 | 341 | 2,417 | 125 |
| 18 | 2014 | 10 | 1 | 14 | 2,762 | 342 | 2,430 | 125 |
| 19 | 2015 | 7 | 1 | 10 | 2,769 | 343 | 2,441 | 125 |
| 20 | 2016 | 5 | 1 | 8 | 2,774 | 344 | 2,449 | 125 |
| 21 | 2017 | 4 | 1 | 6 | 2,779 | 344 | 2,454 | 125 |

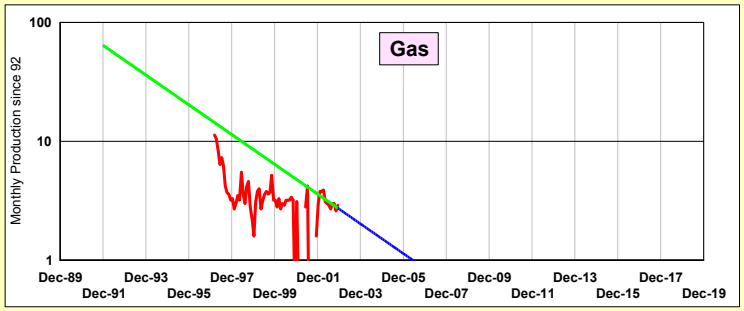
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

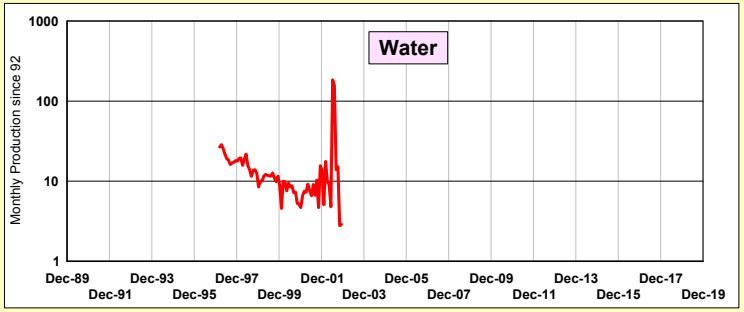
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 125 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 22 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T008403**

Well Name: **Pembina et al, Mersea 2 - 4 - IV**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008403**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 101 | m3 per m3 | 194 | last year | |
| 2002 Water/Oil ratio: | 0.1754 | m3 per m3 | 0.0691 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.9033 | m3 per e3m3 | 0.6814 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 277 | m3/yr | 54 | e3m3/yr | 49 | m3/yr |
| Cumm to Date: | 4,343 | m3 | 440 | e3m3 | 300 | m3 |
| Remaining Recoverable: | 813 | m3 | 155 | e3m3 | 143 | m3 |
| Total Recovery: | 5,156 | m3 | 595 | e3m3 | 443 | m3 |
| Peak Rate: | 4.3 | m3/d | 0.4 | e3m3/d | based on annual | |
| Peak Rate: | 9.1 | m3/d | 0.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 4.3 | m3/d | 0.4 | e3m3/d | per day based on annual | |
| Current Rate: | 0.8 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

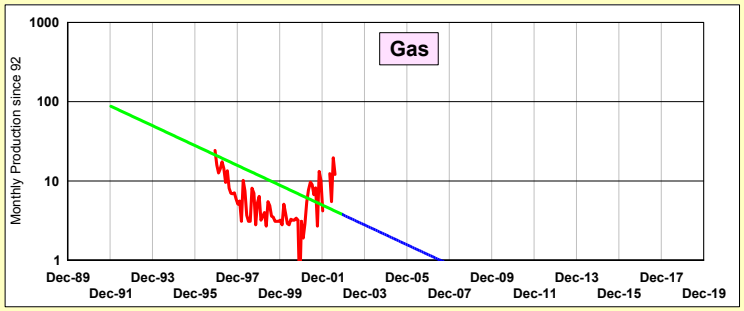
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1996 | 278 | 24 | 0 | 278 | 24 | 0 | 88 |
| 2 | 1997 | 1,554 | 133 | 0 | 1,831 | 157 | 0 | 85 |
| 3 | 1998 | 822 | 65 | 73 | 2,654 | 222 | 73 | 79 |
| 4 | 1999 | 574 | 47 | 65 | 3,228 | 268 | 138 | 81 |
| 5 | 2000 | 486 | 37 | 54 | 3,714 | 306 | 192 | 77 |
| 6 | 2001 | 351 | 81 | 59 | 4,066 | 387 | 251 | 230 |
| 7 | 2002 | 277 | 54 | 49 | 4,343 | 440 | 300 | 194 |
| 8 | 2003 | 206 | 39 | 36 | 4,549 | 479 | 336 | 190 |
| 9 | 2004 | 155 | 29 | 27 | 4,703 | 509 | 363 | 190 |
| 10 | 2005 | 116 | 22 | 20 | 4,819 | 531 | 384 | 190 |
| 11 | 2006 | 87 | 17 | 15 | 4,906 | 547 | 399 | 190 |
| 12 | 2007 | 65 | 12 | 11 | 4,971 | 560 | 410 | 190 |
| 13 | 2008 | 49 | 9 | 9 | 5,020 | 569 | 419 | 190 |
| 14 | 2009 | 37 | 7 | 6 | 5,057 | 576 | 425 | 190 |
| 15 | 2010 | 28 | 5 | 5 | 5,084 | 581 | 430 | 190 |
| 16 | 2011 | 21 | 4 | 4 | 5,105 | 585 | 434 | 190 |
| 17 | 2012 | 15 | 3 | 3 | 5,120 | 588 | 436 | 190 |
| 18 | 2013 | 12 | 2 | 2 | 5,132 | 590 | 438 | 190 |
| 19 | 2014 | 9 | 2 | 2 | 5,141 | 592 | 440 | 190 |
| 20 | 2015 | 7 | 1 | 1 | 5,147 | 593 | 441 | 190 |
| 21 | 2016 | 5 | 1 | 1 | 5,152 | 594 | 442 | 190 |
| 22 | 2017 | 4 | 1 | 1 | 5,156 | 595 | 443 | 190 |

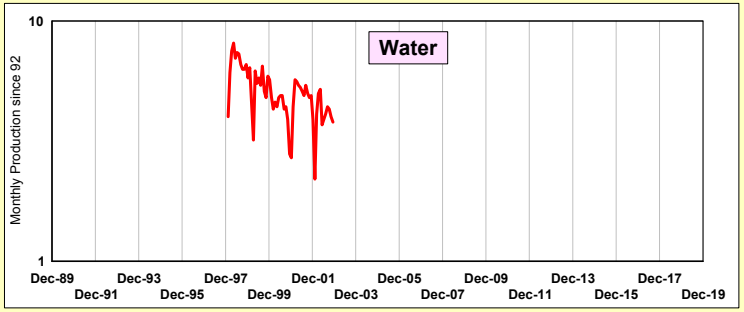
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 190 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 20 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | 0.0237 | per month | Decline Factor: | 0.0237 | per month |



Well No.: **T008380**

Well Name: **Clearbeach et al, Mersea 4 - 6 - IV**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008380**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.1738 | m3 per m3 | | 0.1626 | last 10 years |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **781** | m3/yr | **0** | e3m3/yr | **136** | m3/yr |
| Cumm to Date: | **10,318** | m3 | **0** | e3m3 | **1,678** | m3 |
| Remaining Recoverable: | **3,244** | m3 | **0** | e3m3 | **564** | m3 |
| Total Recovery: | **13,562** | m3 | **0** | e3m3 | **2,242** | m3 |
| Peak Rate: | 6.3 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 12.3 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 5.6 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 2.1 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 18% | | annually | | | |

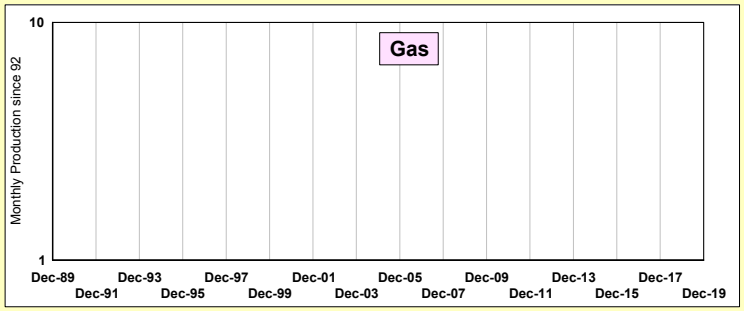
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1996 | 2,286 | 0 | 0 | 2,286 | 0 | 0 | 0 |
| 2 | 1997 | 2,043 | 0 | 481 | 4,329 | 0 | 481 | 0 |
| 3 | 1998 | 1,552 | 0 | 273 | 5,881 | 0 | 754 | 0 |
| 4 | 1999 | 1,237 | 0 | 273 | 7,118 | 0 | 1,027 | 0 |
| 5 | 2000 | 1,316 | 0 | 267 | 8,434 | 0 | 1,294 | 0 |
| 6 | 2001 | 1,104 | 0 | 249 | 9,537 | 0 | 1,542 | 0 |
| 7 | 2002 | 781 | 0 | 136 | 10,318 | 0 | 1,678 | 0 |
| 8 | 2003 | 615 | 0 | 107 | 10,934 | 0 | 1,785 | 0 |
| 9 | 2004 | 505 | 0 | 88 | 11,438 | 0 | 1,873 | 0 |
| 10 | 2005 | 414 | 0 | 72 | 11,852 | 0 | 1,945 | 0 |
| 11 | 2006 | 339 | 0 | 59 | 12,191 | 0 | 2,004 | 0 |
| 12 | 2007 | 278 | 0 | 48 | 12,469 | 0 | 2,052 | 0 |
| 13 | 2008 | 228 | 0 | 40 | 12,697 | 0 | 2,092 | 0 |
| 14 | 2009 | 187 | 0 | 33 | 12,885 | 0 | 2,124 | 0 |
| 15 | 2010 | 153 | 0 | 27 | 13,038 | 0 | 2,151 | 0 |
| 16 | 2011 | 126 | 0 | 22 | 13,164 | 0 | 2,173 | 0 |
| 17 | 2012 | 103 | 0 | 18 | 13,267 | 0 | 2,191 | 0 |
| 18 | 2013 | 85 | 0 | 15 | 13,351 | 0 | 2,205 | 0 |
| 19 | 2014 | 69 | 0 | 12 | 13,421 | 0 | 2,217 | 0 |
| 20 | 2015 | 57 | 0 | 10 | 13,478 | 0 | 2,227 | 0 |
| 21 | 2016 | 47 | 0 | 8 | 13,524 | 0 | 2,235 | 0 |
| 22 | 2017 | 38 | 0 | 7 | 13,562 | 0 | 2,242 | 0 |

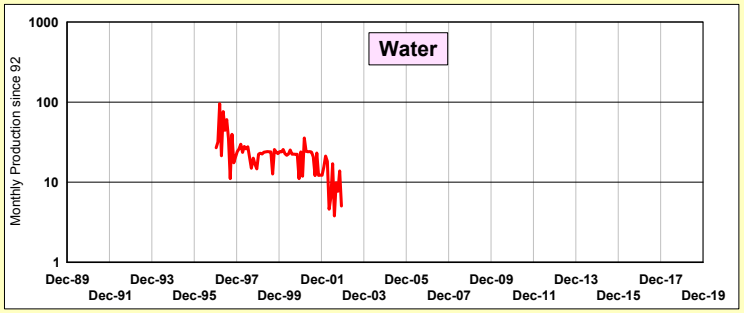
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 57 | m3/mo. |
| Decline Rate: | 18% | per year | Decline Rate: | 18% | per year |
| Decline Factor: | **0.0164** | per month | Decline Factor: | **0.0164** | per month |



Well No.: **T008203**

Well Name: **Pembina et al, Mersea 5 - 3 - V**

Status: **Abandoned Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008203**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 64 | m3 per m3 | 87 | last year | |
| 2002 Water/Oil ratio: | 0.1479 | m3 per m3 | 0.1086 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.7083 | m3 per e3m3 | 1.7054 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **860** | m3/yr | **74** | e3m3/yr | **127** | m3/yr |
| Cumm to Date: | **10,109** | m3 | **644** | e3m3 | **1,098** | m3 |
| Remaining Recoverable: | **3,341** | m3 | **291** | e3m3 | **494** | m3 |
| Total Recovery: | **13,450** | m3 | **935** | e3m3 | **1,592** | m3 |
| Peak Rate: | 5.7 | m3/d | 0.4 | e3m3/d | based on annual | |
| Peak Rate: | 7.4 | m3/d | 0.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.8 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 2.4 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

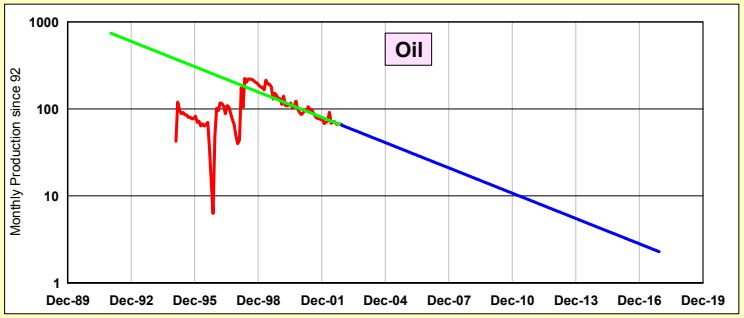
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1995 | 927 | 46 | 0 | 927 | 46 | 0 | 49 |
| 2 | 1996 | 659 | 33 | 209 | 1,586 | 79 | 209 | 50 |
| 3 | 1997 | 1,120 | 49 | 5 | 2,706 | 127 | 215 | 43 |
| 4 | 1998 | 2,069 | 130 | 113 | 4,775 | 257 | 327 | 63 |
| 5 | 1999 | 2,043 | 137 | 237 | 6,819 | 394 | 564 | 67 |
| 6 | 2000 | 1,356 | 95 | 200 | 8,175 | 490 | 764 | 70 |
| 7 | 2001 | 1,074 | 80 | 207 | 9,249 | 570 | 971 | 74 |
| 8 | 2002 | 860 | 74 | 127 | 10,109 | 644 | 1,098 | 87 |
| 9 | 2003 | 693 | 60 | 102 | 10,801 | 704 | 1,201 | 87 |
| 10 | 2004 | 554 | 48 | 82 | 11,355 | 752 | 1,282 | 87 |
| 11 | 2005 | 443 | 39 | 66 | 11,799 | 791 | 1,348 | 87 |
| 12 | 2006 | 355 | 31 | 52 | 12,153 | 822 | 1,400 | 87 |
| 13 | 2007 | 284 | 25 | 42 | 12,437 | 846 | 1,442 | 87 |
| 14 | 2008 | 227 | 20 | 34 | 12,664 | 866 | 1,476 | 87 |
| 15 | 2009 | 182 | 16 | 27 | 12,845 | 882 | 1,503 | 87 |
| 16 | 2010 | 145 | 13 | 21 | 12,991 | 895 | 1,524 | 87 |
| 17 | 2011 | 116 | 10 | 17 | 13,107 | 905 | 1,541 | 87 |
| 18 | 2012 | 93 | 8 | 14 | 13,200 | 913 | 1,555 | 87 |
| 19 | 2013 | 74 | 6 | 11 | 13,274 | 919 | 1,566 | 87 |
| 20 | 2014 | 59 | 5 | 9 | 13,334 | 924 | 1,575 | 87 |
| 21 | 2015 | 48 | 4 | 7 | 13,381 | 929 | 1,582 | 87 |
| 22 | 2016 | 38 | 3 | 6 | 13,419 | 932 | 1,588 | 87 |
| 23 | 2017 | 30 | 3 | 5 | 13,450 | 935 | 1,592 | 87 |

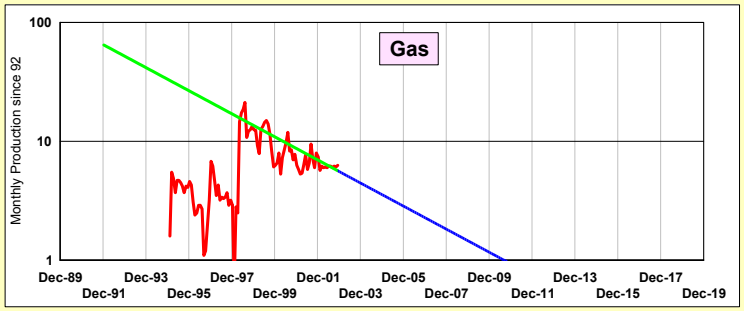
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

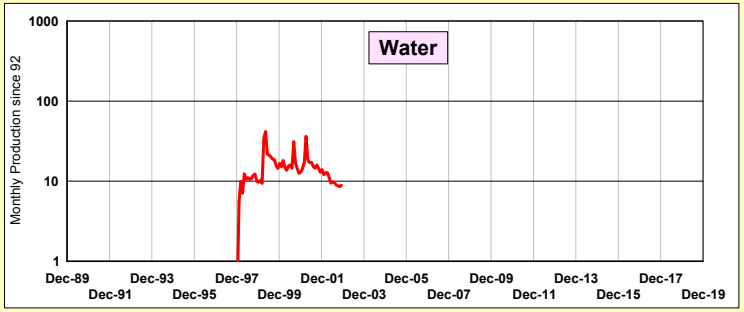
## Monthly Production vs Month + Forecast
*(since 1992)*

86.5619546 **Basis--->** **OIl** 71.6

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 87 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 65 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | 0.0184 | per month | Decline Factor: | 0.0184 | per month |



Well No.: **T008074**

Well Name: **Telesis 34633, Mersea 1 - 5 - IV**

Status: **Active Well**

MNR Pool: **Mersea 3-4-IV**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008074**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 81 | m3 per m3 | 157 | last year | |
| 2002 Water/Oil ratio: | 0.5393 | m3 per m3 | 0.4069 | last 10 years | |
| 2002 Water/ Gas Ratio: | 3.4381 | m3 per e3m3 | 5.0474 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 211 | m3/yr | 33 | e3m3/yr | 114 | m3/yr |
| Cumm to Date: | 7,322 | m3 | 590 | e3m3 | 2,980 | m3 |
| Remaining Recoverable: | 610 | m3 | 98 | e3m3 | 329 | m3 |
| Total Recovery: | 7,932 | m3 | 688 | e3m3 | 3,308 | m3 |
| Peak Rate: | 5.9 | m3/d | 0.4 | e3m3/d | based on annual | |
| Peak Rate: | 9.0 | m3/d | 0.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 5.9 | m3/d | 0.4 | e3m3/d | per day based on annual | |
| Current Rate: | 0.6 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

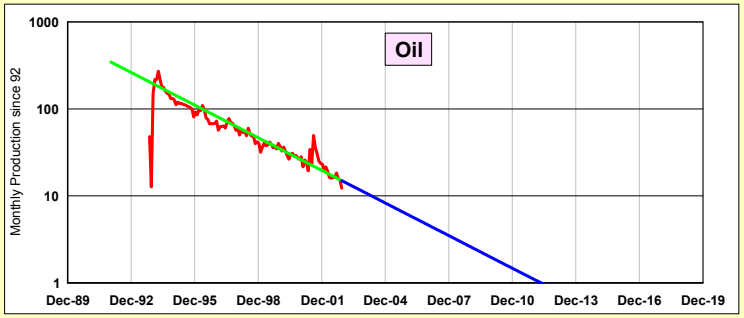
| Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 61 | 0 | 33 | 61 | 0 | 33 | 0 |
| 2 | 1994 | 2,155 | 154 | 756 | 2,216 | 154 | 789 | 71 |
| 3 | 1995 | 1,318 | 81 | 518 | 3,533 | 235 | 1,307 | 61 |
| 4 | 1996 | 1,007 | 91 | 363 | 4,541 | 326 | 1,670 | 91 |
| 5 | 1997 | 787 | 81 | 372 | 5,328 | 407 | 2,041 | 103 |
| 6 | 1998 | 618 | 47 | 267 | 5,946 | 453 | 2,309 | 75 |
| 7 | 1999 | 455 | 38 | 199 | 6,401 | 491 | 2,508 | 84 |
| 8 | 2000 | 368 | 28 | 156 | 6,769 | 520 | 2,663 | 77 |
| 9 | 2001 | 343 | 37 | 202 | 7,111 | 557 | 2,866 | 109 |
| 10 | 2002 | 211 | 33 | 114 | 7,322 | 590 | 2,980 | 157 |
| 11 | 2003 | 155 | 25 | 83 | 7,477 | 615 | 3,063 | 160 |
| 12 | 2004 | 116 | 19 | 63 | 7,593 | 634 | 3,125 | 160 |
| 13 | 2005 | 87 | 14 | 47 | 7,680 | 647 | 3,172 | 160 |
| 14 | 2006 | 65 | 10 | 35 | 7,745 | 658 | 3,207 | 160 |
| 15 | 2007 | 49 | 8 | 26 | 7,794 | 666 | 3,234 | 160 |
| 16 | 2008 | 37 | 6 | 20 | 7,830 | 672 | 3,254 | 160 |
| 17 | 2009 | 28 | 4 | 15 | 7,858 | 676 | 3,268 | 160 |
| 18 | 2010 | 21 | 3 | 11 | 7,879 | 679 | 3,280 | 160 |
| 19 | 2011 | 15 | 2 | 8 | 7,894 | 682 | 3,288 | 160 |
| 20 | 2012 | 12 | 2 | 6 | 7,906 | 684 | 3,294 | 160 |
| 21 | 2013 | 9 | 1 | 5 | 7,914 | 685 | 3,299 | 160 |
| 22 | 2014 | 7 | 1 | 4 | 7,921 | 686 | 3,302 | 160 |
| 23 | 2015 | 5 | 1 | 3 | 7,926 | 687 | 3,305 | 160 |
| 24 | 2016 | 4 | 1 | 2 | 7,929 | 687 | 3,307 | 160 |
| 25 | 2017 | 3 | 0 | 1 | 7,932 | 688 | 3,308 | 160 |

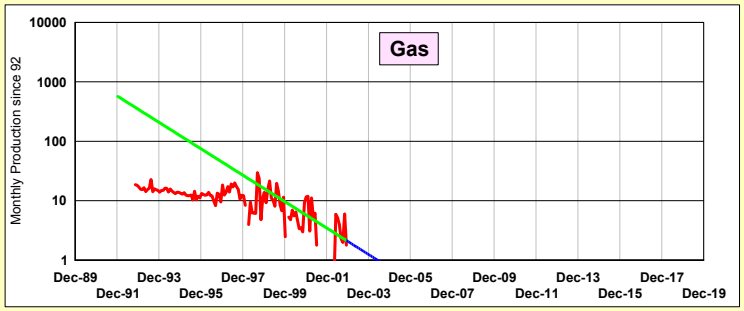
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

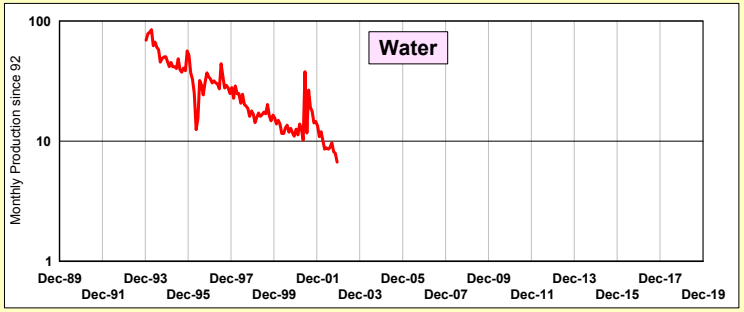
## Monthly Production vs Month + Forecast
*(since 1992)*

156.872038 **Basis--->** **OIl** 17.6

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 160 | m3/m3 | | | |
| Start: | 10 | e3m3 per month | Start: | 15 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | 0.0237 | per month | Decline Factor: | 0.0237 | per month |



Well No.: **T008256**

Well Name: **Pembina et al, Mersea 5 - 3 - VI**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008256**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 85 | m3 per m3 | 42 | last year | |
| 2002 Water/Oil ratio: | 0.8103 | m3 per m3 | 0.6728 | last 10 years | |
| 2002 Water/ Gas Ratio: | 19.0763 | m3 per e3m3 | 7.9538 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **617** | m3/yr | **26** | e3m3/yr | **500** | m3/yr |
| Cumm to Date: | **15,664** | m3 | **1,325** | e3m3 | **10,539** | m3 |
| Remaining Recoverable: | **2,313** | m3 | **116** | e3m3 | **1,874** | m3 |
| Total Recovery: | **17,977** | m3 | **1,441** | e3m3 | **12,413** | m3 |
| Peak Rate: | 10.7 | m3/d | 0.8 | e3m3/d | based on annual | |
| Peak Rate: | 23.9 | m3/d | 1.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 10.7 | m3/d | 0.7 | e3m3/d | per day based on annual | |
| Current Rate: | 1.7 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

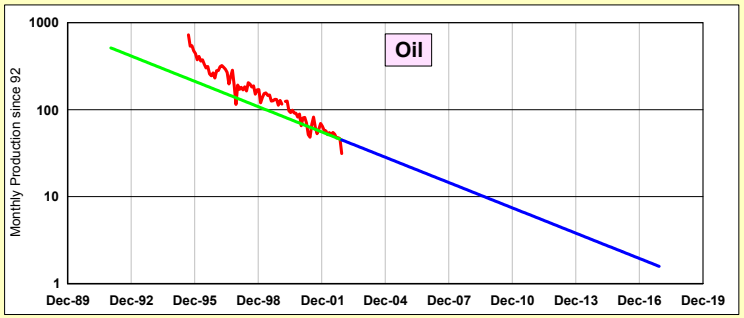
| Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1995 | 2,285 | 166 | 1,386 | 2,285 | 166 | 1,386 | 73 |
| 2 | 1996 | 3,916 | 264 | 2,495 | 6,201 | 430 | 3,882 | 67 |
| 3 | 1997 | 3,099 | 253 | 1,755 | 9,301 | 683 | 5,637 | 82 |
| 4 | 1998 | 2,155 | 281 | 1,539 | 11,456 | 964 | 7,176 | 131 |
| 5 | 1999 | 1,660 | 120 | 1,247 | 13,116 | 1,084 | 8,423 | 72 |
| 6 | 2000 | 1,138 | 97 | 956 | 14,254 | 1,181 | 9,379 | 85 |
| 7 | 2001 | 793 | 118 | 660 | 15,047 | 1,299 | 10,039 | 149 |
| 8 | 2002 | 617 | 26 | 500 | 15,664 | 1,325 | 10,539 | 42 |
| 9 | 2003 | 480 | 24 | 389 | 16,143 | 1,349 | 10,927 | 50 |
| 10 | 2004 | 384 | 19 | 311 | 16,527 | 1,368 | 11,238 | 50 |
| 11 | 2005 | 307 | 15 | 249 | 16,834 | 1,383 | 11,487 | 50 |
| 12 | 2006 | 246 | 12 | 199 | 17,079 | 1,396 | 11,686 | 50 |
| 13 | 2007 | 196 | 10 | 159 | 17,276 | 1,406 | 11,845 | 50 |
| 14 | 2008 | 157 | 8 | 127 | 17,433 | 1,413 | 11,972 | 50 |
| 15 | 2009 | 126 | 6 | 102 | 17,558 | 1,420 | 12,074 | 50 |
| 16 | 2010 | 101 | 5 | 81 | 17,659 | 1,425 | 12,156 | 50 |
| 17 | 2011 | 80 | 4 | 65 | 17,739 | 1,429 | 12,221 | 50 |
| 18 | 2012 | 64 | 3 | 52 | 17,804 | 1,432 | 12,273 | 50 |
| 19 | 2013 | 51 | 3 | 42 | 17,855 | 1,435 | 12,315 | 50 |
| 20 | 2014 | 41 | 2 | 33 | 17,896 | 1,437 | 12,348 | 50 |
| 21 | 2015 | 33 | 2 | 27 | 17,929 | 1,438 | 12,375 | 50 |
| 22 | 2016 | 26 | 1 | 21 | 17,956 | 1,440 | 12,396 | 50 |
| 23 | 2017 | 21 | 1 | 17 | 17,977 | 1,441 | 12,413 | 50 |

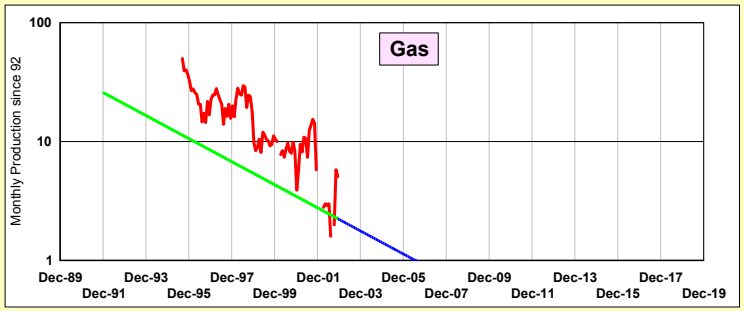
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

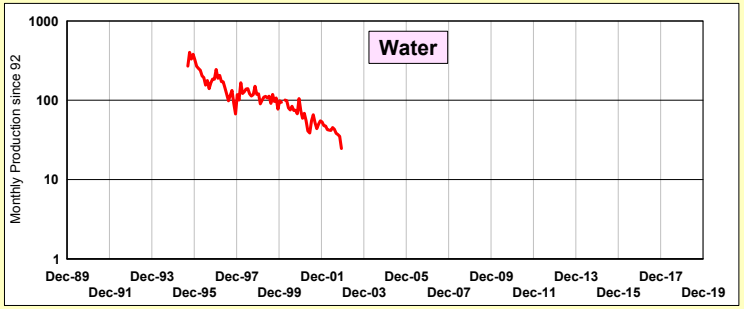
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 50 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 45 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008202**

Well Name: **Pembina et al, Mersea 5 - 240 - NTR**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008202**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 107 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 2.1550 | m3 per m3 | 0.9228 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 8.6216 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **190** | m3/yr | **0** | e3m3/yr | **409** | m3/yr |
| Cumm to Date: | **8,874** | m3 | **950** | e3m3 | **8,189** | m3 |
| Remaining Recoverable: | **653** | m3 | **0** | e3m3 | **1,407** | m3 |
| Total Recovery: | **9,527** | m3 | **950** | e3m3 | **9,596** | m3 |
| Peak Rate: | 9.0 | m3/d | 0.8 | e3m3/d | based on annual | |
| Peak Rate: | 10.8 | m3/d | 1.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 9.0 | m3/d | 0.8 | e3m3/d | per day based on annual | |
| Current Rate: | 0.5 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 22% | | annually | | | |

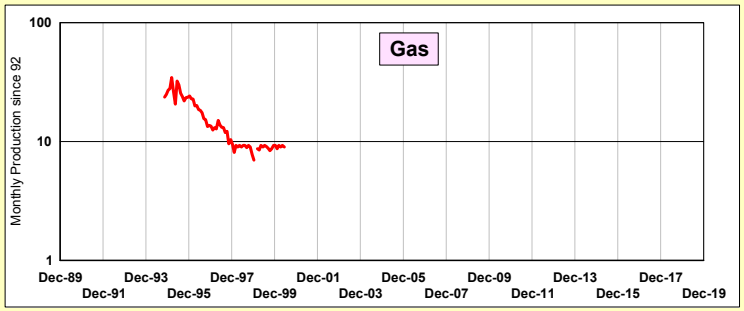
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1994 | 526 | 25 | 492 | 526 | 25 | 492 | 48 |
| 2 | 1995 | 3,289 | 293 | 3,278 | 3,816 | 318 | 3,770 | 89 |
| 3 | 1996 | 2,028 | 222 | 1,146 | 5,844 | 540 | 4,916 | 110 |
| 4 | 1997 | 1,203 | 151 | 733 | 7,047 | 691 | 5,649 | 126 |
| 5 | 1998 | 696 | 108 | 614 | 7,744 | 799 | 6,263 | 155 |
| 6 | 1999 | 422 | 96 | 575 | 8,166 | 895 | 6,838 | 228 |
| 7 | 2000 | 292 | 55 | 513 | 8,458 | 950 | 7,352 | 187 |
| 8 | 2001 | 226 | 0 | 428 | 8,684 | 950 | 7,780 | 0 |
| 9 | 2002 | 190 | 0 | 409 | 8,874 | 950 | 8,189 | 0 |
| 10 | 2003 | 147 | 0 | 317 | 9,021 | 950 | 8,506 | 0 |
| 11 | 2004 | 115 | 0 | 247 | 9,136 | 950 | 8,754 | 0 |
| 12 | 2005 | 90 | 0 | 193 | 9,225 | 950 | 8,947 | 0 |
| 13 | 2006 | 70 | 0 | 151 | 9,295 | 950 | 9,097 | 0 |
| 14 | 2007 | 54 | 0 | 117 | 9,350 | 950 | 9,215 | 0 |
| 15 | 2008 | 43 | 0 | 92 | 9,392 | 950 | 9,306 | 0 |
| 16 | 2009 | 33 | 0 | 71 | 9,425 | 950 | 9,378 | 0 |
| 17 | 2010 | 26 | 0 | 56 | 9,451 | 950 | 9,433 | 0 |
| 18 | 2011 | 20 | 0 | 43 | 9,471 | 950 | 9,477 | 0 |
| 19 | 2012 | 16 | 0 | 34 | 9,487 | 950 | 9,511 | 0 |
| 20 | 2013 | 12 | 0 | 26 | 9,499 | 950 | 9,537 | 0 |
| 21 | 2014 | 10 | 0 | 21 | 9,509 | 950 | 9,558 | 0 |
| 22 | 2015 | 7 | 0 | 16 | 9,517 | 950 | 9,574 | 0 |
| 23 | 2016 | 6 | 0 | 13 | 9,522 | 950 | 9,586 | 0 |
| 24 | 2017 | 5 | 0 | 10 | 9,527 | 950 | 9,596 | 0 |

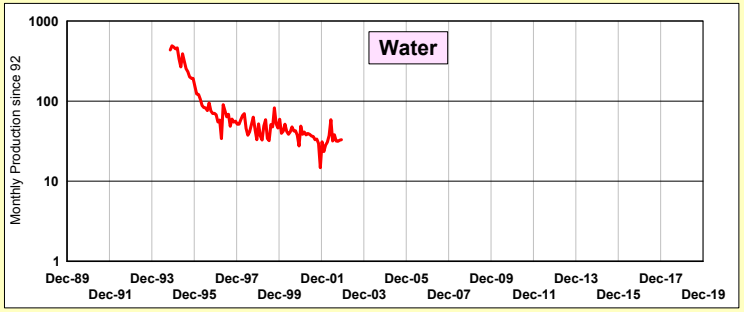
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 14 | m3/mo. |
| Decline Rate: | 22% | per year | Decline Rate: | 22% | per year |
| Decline Factor: | **0.0205** | per month | Decline Factor: | **0.0205** | per month |



Well No.: **T008059**

Well Name: **Telesis et al 34647, Mersea 7 - 5 - VI**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008059**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 78 | m3 per m3 | 275 | last year | |
| 2002 Water/Oil ratio: | 8.3753 | m3 per m3 | 1.0701 | last 10 years | |
| 2002 Water/ Gas Ratio: | 30.4481 | m3 per e3m3 | 13.7144 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **287** | m3/yr | **79** | e3m3/yr | **2,405** | m3/yr |
| Cumm to Date: | **8,202** | m3 | **640** | e3m3 | **8,777** | m3 |
| Remaining Recoverable: | **813** | m3 | **224** | e3m3 | **6,811** | m3 |
| Total Recovery: | **9,015** | m3 | **864** | e3m3 | **15,589** | m3 |
| Peak Rate: | 6.8 | m3/d | 0.2 | e3m3/d | based on annual | |
| Peak Rate: | 21.3 | m3/d | 1.9 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 6.8 | m3/d | 0.2 | e3m3/d | per day based on annual | |
| Current Rate: | 0.8 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

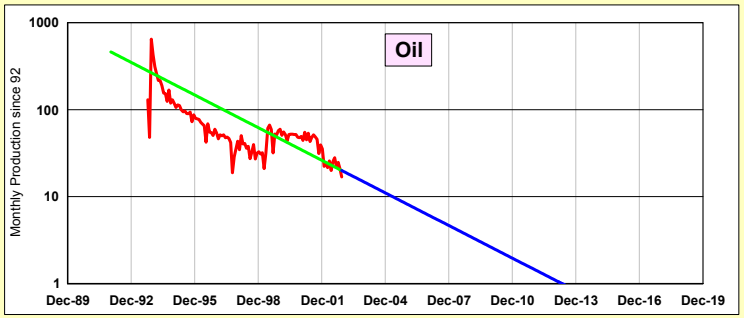
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 827 | 57 | 26 | 827 | 57 | 26 | 68 |
| 2 | 1994 | 2,473 | 84 | 876 | 3,300 | 140 | 902 | 34 |
| 3 | 1995 | 1,176 | 71 | 1,174 | 4,477 | 212 | 2,076 | 61 |
| 4 | 1996 | 772 | 65 | 1,037 | 5,249 | 277 | 3,113 | 84 |
| 5 | 1997 | 522 | 87 | 748 | 5,771 | 364 | 3,862 | 166 |
| 6 | 1998 | 443 | 50 | 647 | 6,213 | 414 | 4,509 | 113 |
| 7 | 1999 | 529 | 47 | 503 | 6,742 | 461 | 5,012 | 90 |
| 8 | 2000 | 618 | 41 | 408 | 7,360 | 503 | 5,420 | 67 |
| 9 | 2001 | 555 | 58 | 952 | 7,915 | 561 | 6,372 | 105 |
| 10 | 2002 | 287 | 79 | 2,405 | 8,202 | 640 | 8,777 | 275 |
| 11 | 2003 | 206 | 57 | 1,726 | 8,408 | 697 | 10,503 | 275 |
| 12 | 2004 | 155 | 43 | 1,294 | 8,563 | 739 | 11,798 | 275 |
| 13 | 2005 | 116 | 32 | 971 | 8,679 | 771 | 12,768 | 275 |
| 14 | 2006 | 87 | 24 | 728 | 8,766 | 795 | 13,497 | 275 |
| 15 | 2007 | 65 | 18 | 546 | 8,831 | 813 | 14,043 | 275 |
| 16 | 2008 | 49 | 13 | 410 | 8,880 | 826 | 14,452 | 275 |
| 17 | 2009 | 37 | 10 | 307 | 8,916 | 836 | 14,759 | 275 |
| 18 | 2010 | 28 | 8 | 230 | 8,944 | 844 | 14,990 | 275 |
| 19 | 2011 | 21 | 6 | 173 | 8,965 | 850 | 15,163 | 275 |
| 20 | 2012 | 15 | 4 | 130 | 8,980 | 854 | 15,292 | 275 |
| 21 | 2013 | 12 | 3 | 97 | 8,992 | 857 | 15,389 | 275 |
| 22 | 2014 | 9 | 2 | 73 | 9,000 | 860 | 15,462 | 275 |
| 23 | 2015 | 7 | 2 | 55 | 9,007 | 861 | 15,517 | 275 |
| 24 | 2016 | 5 | 1 | 41 | 9,012 | 863 | 15,558 | 275 |
| 25 | 2017 | 4 | 1 | 31 | 9,015 | 864 | 15,589 | 275 |

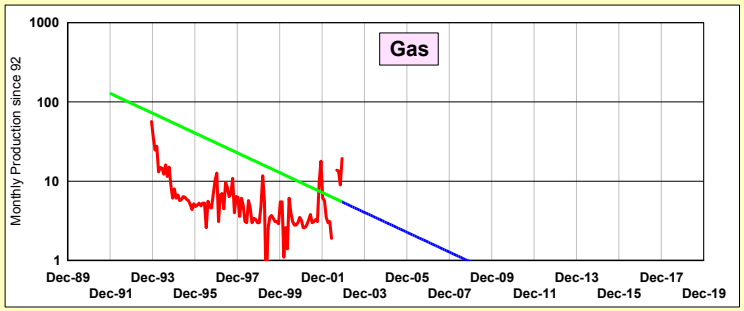
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

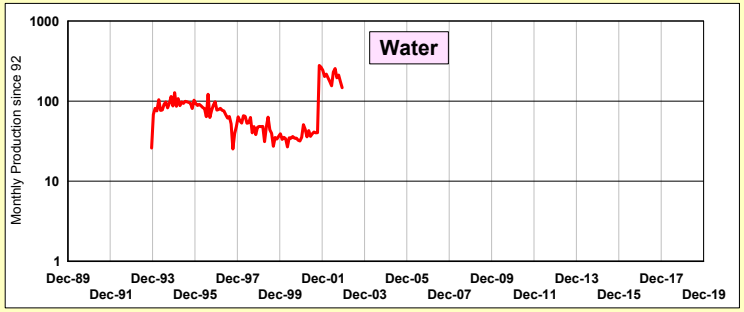
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 275 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 20 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T007984**

Well Name: **Telesis 34372, Mersea 2 - 241 - NTR**

Status: **Abandoned Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T007984**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 70 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | 7.6581 | last 10 years | |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | 109.3529 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **97** | m3 | **7** | e3m3 | **744** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **97** | m3 | **7** | e3m3 | **744** | m3 |
| Peak Rate: | 0.2 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 1.6 | m3/d | 0.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.2 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1993 | 28 | 7 | 257 | 28 | 7 | 257 | 236 |
| 2 | 1994 | 69 | 0 | 487 | 97 | 7 | 744 | 1 |
| 2 | 1995 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 1996 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 1997 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 1998 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 1999 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2000 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2001 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2002 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2003 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2004 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2005 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2006 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2007 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2008 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2009 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2010 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2011 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2012 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2013 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2014 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2015 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2016 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |
| 2 | 2017 | 0 | 0 | 0 | 97 | 7 | 744 | ERR |

*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

## Monthly Production vs Month + Forecast
***(since 1992)***

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |

Well No.: **T007894**

Well Name: **Telesis et al, Mersea 3 - 6 - V**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T007894**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 102 | m3 per m3 | 267 | last year | |
| 2002 Water/Oil ratio: | 2.9445 | m3 per m3 | 1.0247 | last 10 years | |
| 2002 Water/ Gas Ratio: | 11.0248 | m3 per e3m3 | 10.0244 | last 10 years | |

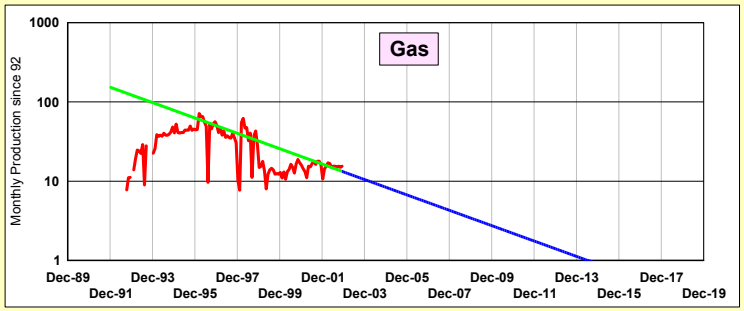
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **679** | m3/yr | **181** | e3m3/yr | **2,000** | m3/yr |
| Cumm to Date: | **33,118** | m3 | **3,386** | e3m3 | **33,938** | m3 |
| Remaining Recoverable: | **2,570** | m3 | **686** | e3m3 | **7,568** | m3 |
| Total Recovery: | **35,689** | m3 | **4,072** | e3m3 | **41,506** | m3 |
| Peak Rate: | 17.8 | m3/d | 1.7 | e3m3/d | based on annual | |
| Peak Rate: | 20.8 | m3/d | 2.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 9.2 | m3/d | 0.5 | e3m3/d | per day based on annual | |
| Current Rate: | 1.9 | m3/d | 0.5 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

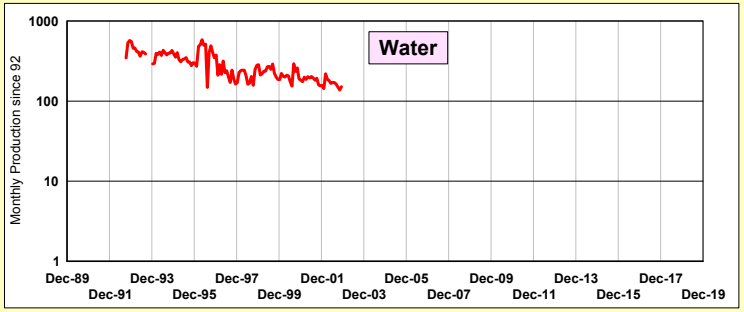
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1992 | 828 | 30 | 1,454 | 828 | 30 | 1,454 | 36 |
| 2 | 1993 | 3,348 | 171 | 3,880 | 4,176 | 201 | 5,333 | 51 |
| 3 | 1994 | 6,512 | 445 | 4,597 | 10,689 | 646 | 9,930 | 68 |
| 4 | 1995 | 6,412 | 529 | 4,000 | 17,101 | 1,175 | 13,930 | 83 |
| 5 | 1996 | 5,125 | 615 | 4,959 | 22,226 | 1,789 | 18,889 | 120 |
| 6 | 1997 | 4,702 | 471 | 2,843 | 26,928 | 2,260 | 21,732 | 100 |
| 7 | 1998 | 2,116 | 423 | 2,553 | 29,043 | 2,683 | 24,286 | 200 |
| 8 | 1999 | 1,489 | 161 | 2,883 | 30,533 | 2,844 | 27,169 | 108 |
| 9 | 2000 | 1,153 | 171 | 2,538 | 31,685 | 3,016 | 29,706 | 149 |
| 10 | 2001 | 754 | 188 | 2,232 | 32,439 | 3,204 | 31,938 | 250 |
| 11 | 2002 | 679 | 181 | 2,000 | 33,118 | 3,386 | 33,938 | 267 |
| 12 | 2003 | 533 | 142 | 1,569 | 33,651 | 3,528 | 35,506 | 267 |
| 13 | 2004 | 426 | 114 | 1,255 | 34,077 | 3,642 | 36,762 | 267 |
| 14 | 2005 | 341 | 91 | 1,004 | 34,418 | 3,733 | 37,766 | 267 |
| 15 | 2006 | 273 | 73 | 803 | 34,691 | 3,805 | 38,569 | 267 |
| 16 | 2007 | 218 | 58 | 643 | 34,909 | 3,864 | 39,211 | 267 |
| 17 | 2008 | 175 | 47 | 514 | 35,084 | 3,910 | 39,725 | 267 |
| 18 | 2009 | 140 | 37 | 411 | 35,224 | 3,948 | 40,137 | 267 |
| 19 | 2010 | 112 | 30 | 329 | 35,335 | 3,977 | 40,466 | 267 |
| 20 | 2011 | 89 | 24 | 263 | 35,425 | 4,001 | 40,729 | 267 |
| 21 | 2012 | 72 | 19 | 211 | 35,496 | 4,020 | 40,939 | 267 |
| 22 | 2013 | 57 | 15 | 168 | 35,553 | 4,036 | 41,108 | 267 |
| 23 | 2014 | 46 | 12 | 135 | 35,599 | 4,048 | 41,243 | 267 |
| 24 | 2015 | 37 | 10 | 108 | 35,636 | 4,058 | 41,350 | 267 |
| 25 | 2016 | 29 | 8 | 86 | 35,665 | 4,066 | 41,437 | 267 |
| 26 | 2017 | 23 | 6 | 69 | 35,689 | 4,072 | 41,506 | 267 |

## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

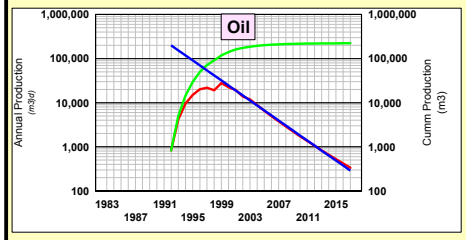
| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 267 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 50 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |

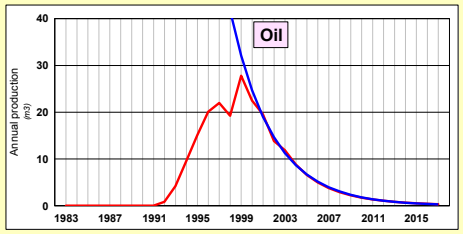


## Annual & Cumulative Production
*(since 1983)*

MNR Pool: **Mersea 3-6-V**
TGI Pool: **Wigle-Olinda Pool**
TGI Field: **Wigle-Olinda Field**
No of Wells: **22**




**23%** Pool Decline

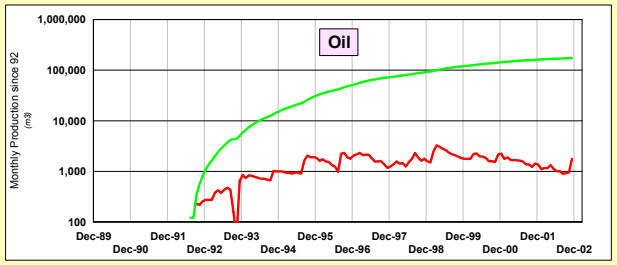
| From | To | Source |
|---|---|---|
| 1982 | 1991 | MNR Files: Annual Data |
| 1992 | 2002 | MNR Files: Monthly Data |
| 2003 | onwards | Forecast EO Mar 2004 |

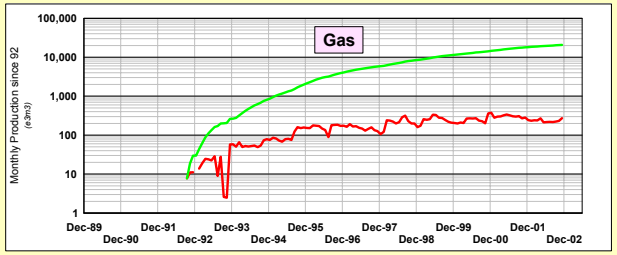
| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | 13,828 | m3/yr | 2,840 | e3m3/yr | 19,185 | m3/yr |
| Cumm to Date: | 174,773 | m3 | 20,941 | e3m3 | 146,422 | m3 |
| Remaining Recoverable: | 48,086 | m3 | 9,867 | e3m3 | 74,629 | m3 |
| Total Recovery: | 222,859 | m3 | 30,808 | e3m3 | 221,052 | m3 |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Peak Rate: | | m3/d | | e3m3/d | | |
| Second Year Production: | | m3/d | | e3m3/d | | |
| Current Rate: | 38 | m3/d | 8 | e3m3/d | | |
| Current decline rate: | | | annually | | | |

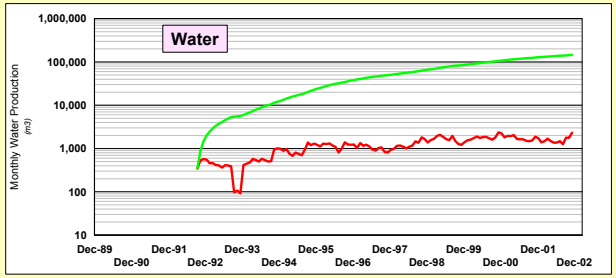
| Producing Wells | Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1992 | 828 | 30 | 1,454 | 828 | 30 | 1,454 | |
| 3 | 2 | 1993 | 4,204 | 234 | 4,163 | 5,032 | 264 | 5,616 | 56 |
| 4 | 3 | 1994 | 9,580 | 554 | 6,451 | 14,612 | 818 | 12,067 | 58 |
| 5 | 4 | 1995 | 15,113 | 1,192 | 10,901 | 29,725 | 2,009 | 22,968 | 79 |
| 8 | 5 | 1996 | 20,112 | 1,935 | 14,187 | 49,837 | 3,944 | 37,155 | 96 |
| 11 | 6 | 1997 | 22,000 | 1,876 | 12,710 | 71,837 | 5,820 | 49,865 | 85 |
| 14 | 7 | 1998 | 19,257 | 2,590 | 15,001 | 91,094 | 8,410 | 64,866 | 134 |
| 14 | 8 | 1999 | 27,817 | 3,014 | 19,694 | 118,911 | 11,424 | 84,560 | 108 |
| 18 | 9 | 2000 | 22,486 | 2,945 | 21,249 | 141,397 | 14,369 | 105,809 | 131 |
| 18 | 10 | 2001 | 19,547 | 3,733 | 21,428 | 160,944 | 18,102 | 127,237 | 191 |
| 20 | 11 | 2002 | 13,828 | 2,840 | 19,185 | 174,773 | 20,941 | 146,422 | 205 |
| | 12 | 2003 | 11,878 | 2,698 | 19,157 | 186,651 | 23,639 | 165,579 | 227 |
| | 13 | 2004 | 8,795 | 1,917 | 14,062 | 195,446 | 25,556 | 179,641 | 218 |
| | 14 | 2005 | 6,583 | 1,384 | 10,409 | 202,029 | 26,940 | 190,050 | 210 |
| | 15 | 2006 | 4,971 | 1,010 | 7,758 | 206,999 | 27,950 | 197,808 | 203 |
| | 16 | 2007 | 3,783 | 743 | 5,818 | 210,782 | 28,694 | 203,626 | 197 |
| | 17 | 2008 | 2,899 | 551 | 4,388 | 213,681 | 29,245 | 208,014 | 190 |
| | 18 | 2009 | 2,237 | 412 | 3,328 | 215,918 | 29,657 | 211,343 | 184 |
| | 19 | 2010 | 1,736 | 309 | 2,537 | 217,653 | 29,966 | 213,880 | 178 |
| | 20 | 2011 | 1,355 | 234 | 1,944 | 219,008 | 30,200 | 215,823 | 173 |
| | 21 | 2012 | 1,063 | 178 | 1,496 | 220,071 | 30,378 | 217,319 | 167 |
| | 22 | 2013 | 838 | 136 | 1,157 | 220,909 | 30,514 | 218,475 | 162 |
| | 23 | 2014 | 663 | 104 | 898 | 221,572 | 30,618 | 219,373 | 157 |
| | 24 | 2015 | 528 | 80 | 700 | 222,100 | 30,698 | 220,073 | 152 |
| | 25 | 2016 | 421 | 62 | 548 | 222,521 | 30,760 | 220,621 | 147 |
| | 26 | 2017 | 337 | 48 | 430 | 222,859 | 30,808 | 221,052 | 142 |
| | | To date: | 174,773 | 20,941 | 146,422 | | | | 142.3468 |

## Monthly Production vs Month
*(1992 to 2002)*

42736



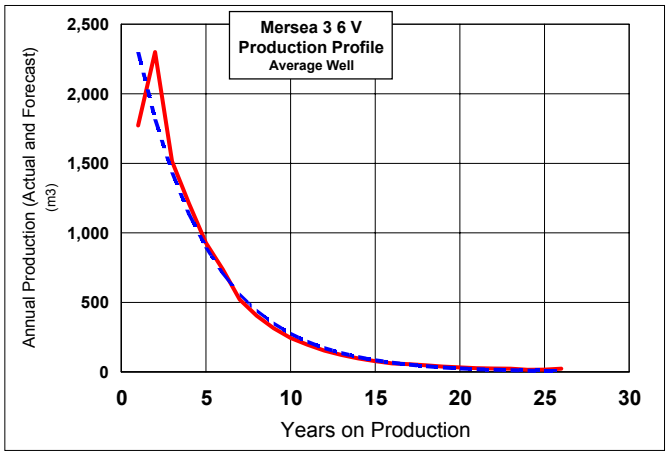
# Mersea 3-6-V

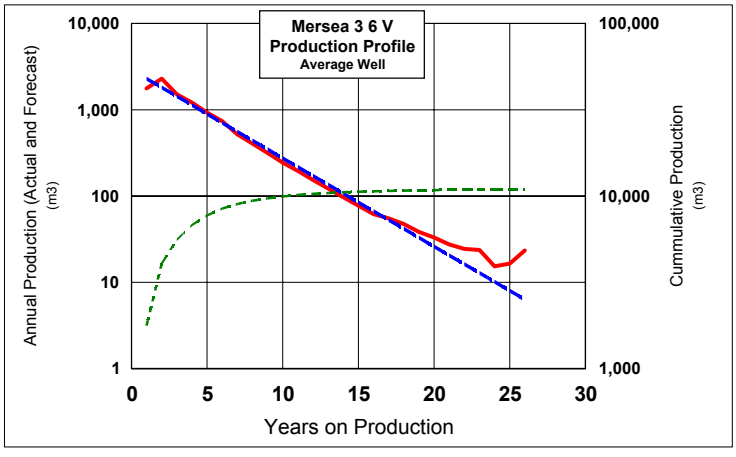
# Average Well

GOR: 147
WOR: 0.838

| Prod Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|
| 1 | 2,300 | 338 | 1,927 | 2,300 | 338 | 1,927 | 147 |
| 2 | 1,817 | 267 | 1,522 | 4,117 | 605 | 3,449 | 147 |
| 3 | 1,435 | 211 | 1,203 | 5,552 | 816 | 4,652 | 147 |
| 4 | 1,134 | 167 | 950 | 6,686 | 983 | 5,602 | 147 |
| 5 | 896 | 132 | 751 | 7,582 | 1,115 | 6,352 | 147 |
| 6 | 708 | 104 | 593 | 8,290 | 1,219 | 6,945 | 147 |
| 7 | 559 | 82 | 468 | 8,849 | 1,301 | 7,414 | 147 |
| 8 | 442 | 65 | 370 | 9,291 | 1,366 | 7,784 | 147 |
| 9 | 349 | 51 | 292 | 9,640 | 1,417 | 8,076 | 147 |
| 10 | 276 | 41 | 231 | 9,915 | 1,458 | 8,307 | 147 |
| 11 | 218 | 32 | 182 | 10,133 | 1,490 | 8,489 | 147 |
| 12 | 172 | 25 | 144 | 10,305 | 1,515 | 8,634 | 147 |
| 13 | 136 | 20 | 114 | 10,441 | 1,535 | 8,747 | 147 |
| 14 | 107 | 16 | 90 | 10,548 | 1,551 | 8,837 | 147 |
| 15 | 85 | 12 | 71 | 10,633 | 1,563 | 8,908 | 147 |
| 16 | 67 | 10 | 56 | 10,700 | 1,573 | 8,965 | 147 |
| 17 | 53 | 8 | 44 | 10,753 | 1,581 | 9,009 | 147 |
| 18 | 42 | 6 | 35 | 10,795 | 1,587 | 9,044 | 147 |
| 19 | 33 | 5 | 28 | 10,828 | 1,592 | 9,072 | 147 |
| 20 | 26 | 4 | 22 | 10,854 | 1,596 | 9,093 | 147 |
| 21 | 21 | 3 | 17 | 10,875 | 1,599 | 9,111 | 147 |
| 22 | 16 | 2 | 14 | 10,891 | 1,601 | 9,124 | 147 |
| 23 | 13 | 2 | 11 | 10,904 | 1,603 | 9,135 | 147 |
| 24 | 10 | 1 | 9 | 10,914 | 1,604 | 9,144 | 147 |
| 25 | 8 | 1 | 7 | 10,922 | 1,606 | 9,150 | 147 |
| 26 | 6 | 1 | 5 | 10,929 | 1,606 | 9,156 | 147 |
| 27 | 5 | 1 | 4 | 10,934 | 1,607 | 9,160 | 147 |
| 28 | 4 | 1 | 3 | 10,937 | 1,608 | 9,163 | 147 |
| 29 | 3 | 0 | 3 | 10,941 | 1,608 | 9,166 | 147 |
| 30 | 2 | 0 | 2 | 10,943 | 1,609 | 9,168 | 147 |
| 31 | 2 | 0 | 2 | 10,945 | 1,609 | 9,170 | 147 |
| 32 | 2 | 0 | 1 | 10,947 | 1,609 | 9,171 | 147 |
| | 10,947 | 1,609 | 9,171 | | | | |

| Average Well Oil | | |
|---|---|---|
| Start: | 2300 | m3 per year |
| Decline Rate | 21.0% | per year |
| Decline Factc | 0.0195 | per month |
| Recovery | 10,947 | m3 |



Well No.: **T010523**

Well Name: **TLM No. 1 (Horiz. No. 1) , Mersea 5 - 238 - NTR**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T010523**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 38 | m3 per m3 | 38 | last year | |
| 2002 Water/Oil ratio: | 0.5855 | m3 per m3 | 0.5855 | last 10 years | |
| 2002 Water/ Gas Ratio: | 15.2611 | m3 per e3m3 | 15.2611 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **938** | m3/yr | **36** | e3m3/yr | **549** | m3/yr |
| Cumm to Date: | **938** | m3 | **36** | e3m3 | **549** | m3 |
| Remaining Recoverable: | **5,463** | m3 | **1,639** | e3m3 | **3,199** | m3 |
| Total Recovery: | **6,402** | m3 | **1,675** | e3m3 | **3,748** | m3 |
| Peak Rate: | 5.2 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 30.9 | m3/d | 1.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 5.2 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 2.6 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 35% | | annually | | | |

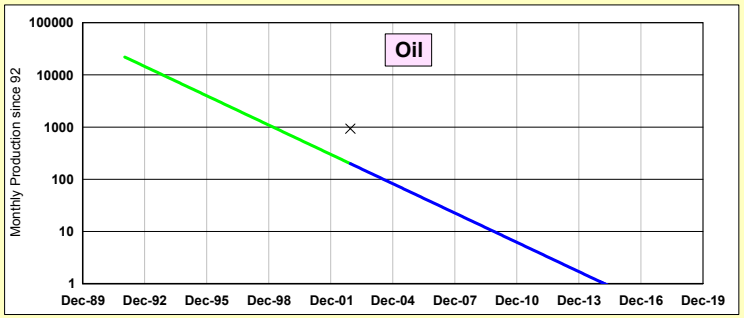
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2001 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2002 | 938 | 36 | 549 | 938 | 36 | 549 | 38 |
| 2 | 2003 | 1,915 | 575 | 1,121 | 2,853 | 611 | 1,671 | 300 |
| 3 | 2004 | 1,245 | 373 | 729 | 4,098 | 984 | 2,400 | 300 |
| 4 | 2005 | 809 | 243 | 474 | 4,907 | 1,227 | 2,873 | 300 |
| 5 | 2006 | 526 | 158 | 308 | 5,433 | 1,385 | 3,181 | 300 |
| 6 | 2007 | 342 | 103 | 200 | 5,775 | 1,487 | 3,382 | 300 |
| 7 | 2008 | 222 | 67 | 130 | 5,997 | 1,554 | 3,512 | 300 |
| 8 | 2009 | 144 | 43 | 85 | 6,142 | 1,597 | 3,596 | 300 |
| 9 | 2010 | 94 | 28 | 55 | 6,236 | 1,625 | 3,651 | 300 |
| 10 | 2011 | 61 | 18 | 36 | 6,297 | 1,644 | 3,687 | 300 |
| 11 | 2012 | 40 | 12 | 23 | 6,336 | 1,655 | 3,710 | 300 |
| 12 | 2013 | 26 | 8 | 15 | 6,362 | 1,663 | 3,725 | 300 |
| 13 | 2014 | 17 | 5 | 10 | 6,379 | 1,668 | 3,735 | 300 |
| 14 | 2015 | 11 | 3 | 6 | 6,390 | 1,671 | 3,741 | 300 |
| 15 | 2016 | 7 | 2 | 4 | 6,397 | 1,674 | 3,746 | 300 |
| 16 | 2017 | 5 | 1 | 3 | 6,402 | 1,675 | 3,748 | 300 |

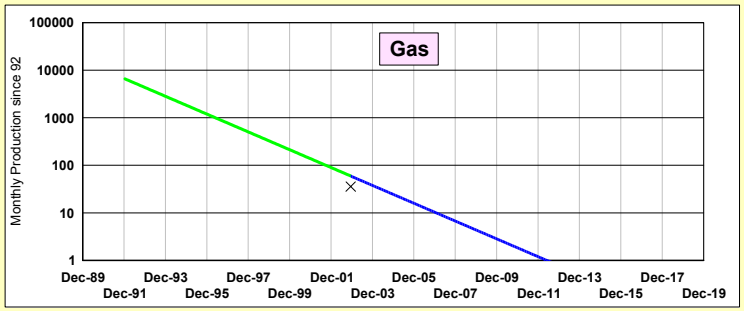
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

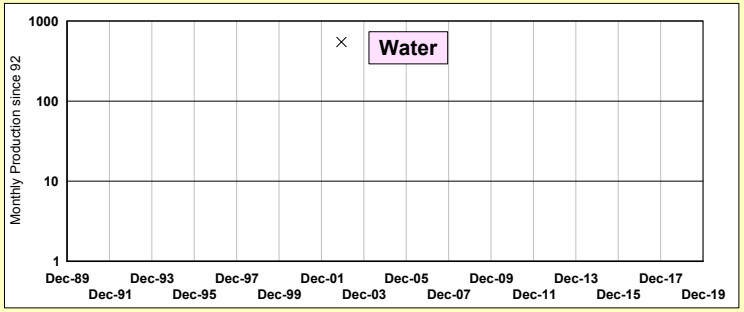
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 300 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 200 | m3/mo. |
| Decline Rate: | 35% | per year | Decline Rate: | 35% | per year |
| Decline Factor: | **0.0353** | per month | Decline Factor: | **0.0353** | per month |



Well No.: **T010508**

Well Name: **TLM No.1 (Horiz.#1), Mersea 7 - 5 - V**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T010508**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 225 | m3 per m3 | 225 | last year | |
| 2002 Water/Oil ratio: | 7.1939 | m3 per m3 | 7.1939 | last 10 years | |
| 2002 Water/ Gas Ratio: | 32.0104 | m3 per e3m3 | 32.0104 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **256** | m3/yr | **58** | e3m3/yr | **1,844** | m3/yr |
| Cumm to Date: | **256** | m3 | **58** | e3m3 | **1,844** | m3 |
| Remaining Recoverable: | **2,639** | m3 | **660** | e3m3 | **18,986** | m3 |
| Total Recovery: | **2,895** | m3 | **717** | e3m3 | **20,830** | m3 |
| Peak Rate: | 2.2 | m3/d | 0.2 | e3m3/d | based on annual | |
| Peak Rate: | 3.9 | m3/d | 1.3 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.2 | m3/d | 0.2 | e3m3/d | per day based on annual | |
| Current Rate: | 0.7 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

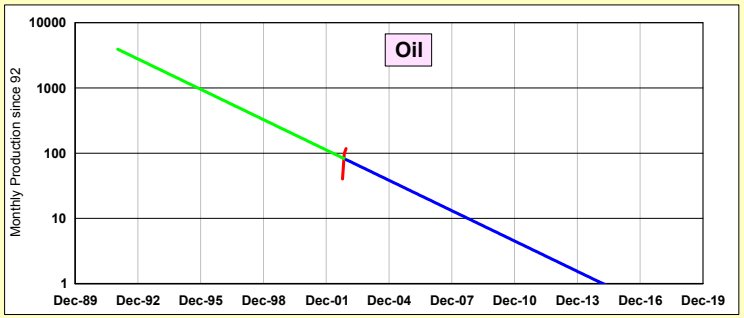
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 2001 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2002 | 256 | 58 | 1,844 | 256 | 58 | 1,844 | 225 |
| 2 | 2003 | 796 | 199 | 5,723 | 1,052 | 256 | 7,567 | 250 |
| 3 | 2004 | 557 | 139 | 4,006 | 1,609 | 396 | 11,573 | 250 |
| 4 | 2005 | 390 | 97 | 2,804 | 1,998 | 493 | 14,377 | 250 |
| 5 | 2006 | 273 | 68 | 1,963 | 2,271 | 561 | 16,340 | 250 |
| 6 | 2007 | 191 | 48 | 1,374 | 2,462 | 609 | 17,714 | 250 |
| 7 | 2008 | 134 | 33 | 962 | 2,596 | 643 | 18,676 | 250 |
| 8 | 2009 | 94 | 23 | 673 | 2,690 | 666 | 19,349 | 250 |
| 9 | 2010 | 66 | 16 | 471 | 2,755 | 682 | 19,820 | 250 |
| 10 | 2011 | 46 | 11 | 330 | 2,801 | 694 | 20,150 | 250 |
| 11 | 2012 | 32 | 8 | 231 | 2,833 | 702 | 20,381 | 250 |
| 12 | 2013 | 22 | 6 | 162 | 2,856 | 707 | 20,543 | 250 |
| 13 | 2014 | 16 | 4 | 113 | 2,871 | 711 | 20,656 | 250 |
| 14 | 2015 | 11 | 3 | 79 | 2,882 | 714 | 20,735 | 250 |
| 15 | 2016 | 8 | 2 | 55 | 2,890 | 716 | 20,791 | 250 |
| 16 | 2017 | 5 | 1 | 39 | 2,895 | 717 | 20,830 | 250 |

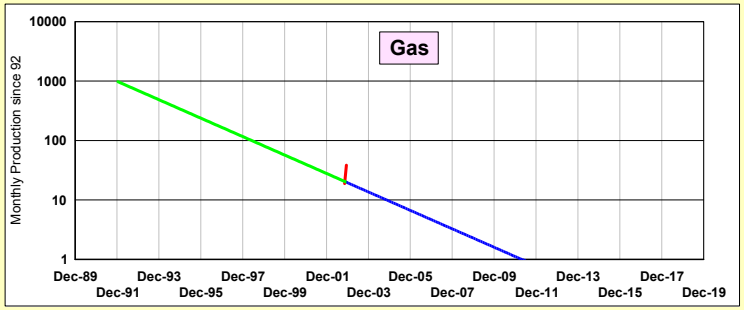
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

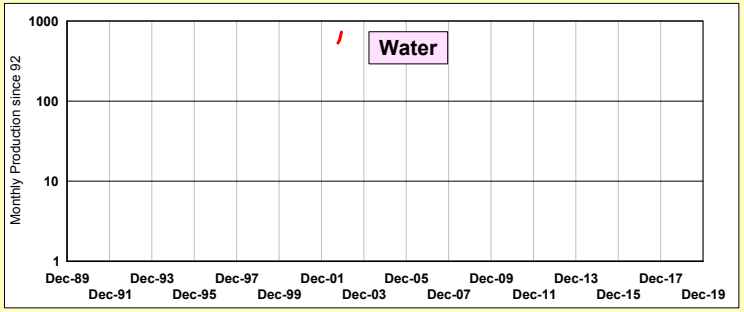
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 250 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 80 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | **0.0293** | per month | Decline Factor: | **0.0293** | per month |



Well No.: **T009578**

Well Name: **Talisman No. 2 (Horiz. #1), Mersea 1 - 241 - NTR**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T009578**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 203 | m3 per m3 | 283 | last year | |
| 2002 Water/Oil ratio: | 0.6182 | m3 per m3 | 0.4808 | last 10 years | |
| 2002 Water/ Gas Ratio: | 2.1876 | m3 per e3m3 | 2.3726 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,347** | m3/yr | **381** | e3m3/yr | **832** | m3/yr |
| Cumm to Date: | **5,207** | m3 | **1,055** | e3m3 | **2,504** | m3 |
| Remaining Recoverable: | **4,626** | m3 | **1,342** | e3m3 | **2,860** | m3 |
| Total Recovery: | **9,833** | m3 | **2,397** | e3m3 | **5,364** | m3 |
| Peak Rate: | 9.5 | m3/d | 1.7 | e3m3/d | based on annual | |
| Peak Rate: | 21.4 | m3/d | 3.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 9.5 | m3/d | 1.7 | e3m3/d | per day based on annual | |
| Current Rate: | 3.7 | m3/d | 1.0 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

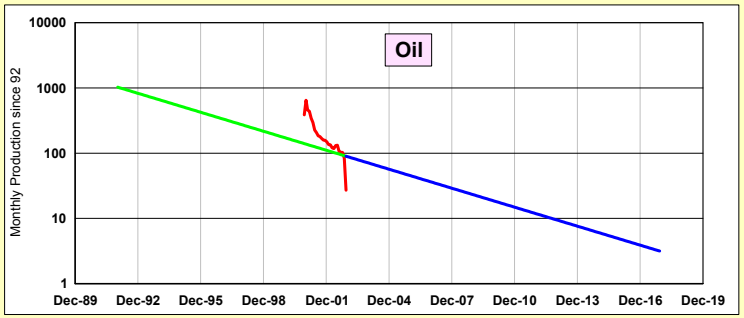
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2000 | 387 | 57 | 179 | 387 | 57 | 179 | 148 |
| 2 | 2001 | 3,473 | 618 | 1,492 | 3,860 | 675 | 1,671 | 178 |
| 3 | 2002 | 1,347 | 381 | 832 | 5,207 | 1,055 | 2,504 | 283 |
| 4 | 2003 | 959 | 278 | 593 | 6,166 | 1,333 | 3,096 | 290 |
| 5 | 2004 | 767 | 222 | 474 | 6,933 | 1,556 | 3,571 | 290 |
| 6 | 2005 | 614 | 178 | 379 | 7,547 | 1,734 | 3,950 | 290 |
| 7 | 2006 | 491 | 142 | 304 | 8,038 | 1,876 | 4,254 | 290 |
| 8 | 2007 | 393 | 114 | 243 | 8,431 | 1,990 | 4,497 | 290 |
| 9 | 2008 | 314 | 91 | 194 | 8,745 | 2,081 | 4,691 | 290 |
| 10 | 2009 | 251 | 73 | 155 | 8,996 | 2,154 | 4,846 | 290 |
| 11 | 2010 | 201 | 58 | 124 | 9,197 | 2,212 | 4,971 | 290 |
| 12 | 2011 | 161 | 47 | 99 | 9,358 | 2,259 | 5,070 | 290 |
| 13 | 2012 | 129 | 37 | 80 | 9,487 | 2,296 | 5,150 | 290 |
| 14 | 2013 | 103 | 30 | 64 | 9,590 | 2,326 | 5,213 | 290 |
| 15 | 2014 | 82 | 24 | 51 | 9,672 | 2,350 | 5,264 | 290 |
| 16 | 2015 | 66 | 19 | 41 | 9,738 | 2,369 | 5,305 | 290 |
| 17 | 2016 | 53 | 15 | 33 | 9,791 | 2,385 | 5,338 | 290 |
| 18 | 2017 | 42 | 12 | 26 | 9,833 | 2,397 | 5,364 | 290 |

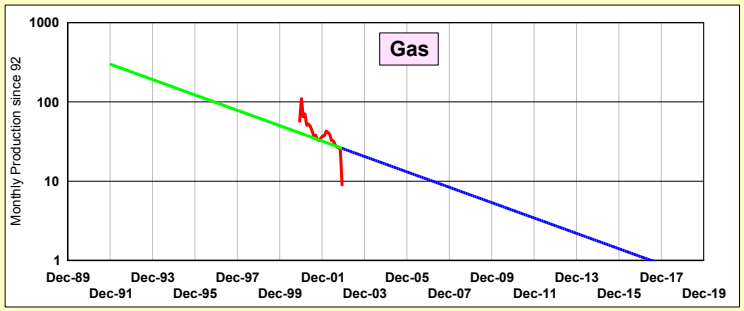
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

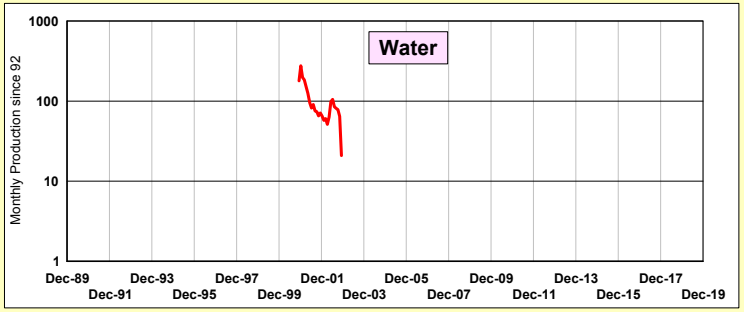
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 290 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 90 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T009497**

Well Name: **Talisman (Horiz.#1), Mersea 1 - 241 - NTR**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T009497**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 325 | m3 per m3 | 605 | last year | |
| 2002 Water/Oil ratio: | 2.3426 | m3 per m3 | 2.1706 | last 10 years | |
| 2002 Water/ Gas Ratio: | 3.8701 | m3 per e3m3 | 6.6813 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **737** | m3/yr | **446** | e3m3/yr | **1,725** | m3/yr |
| Cumm to Date: | **3,632** | m3 | **1,180** | e3m3 | **7,884** | m3 |
| Remaining Recoverable: | **1,149** | m3 | **690** | e3m3 | **2,692** | m3 |
| Total Recovery: | **4,781** | m3 | **1,870** | e3m3 | **10,576** | m3 |
| Peak Rate: | 4.8 | m3/d | 1.5 | e3m3/d | based on annual | |
| Peak Rate: | 12.3 | m3/d | 3.5 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 4.8 | m3/d | 1.5 | e3m3/d | per day based on annual | |
| Current Rate: | 2.0 | m3/d | 1.2 | e3m3/d | | |
| Current decline rate: | 40% | | annually | | | |

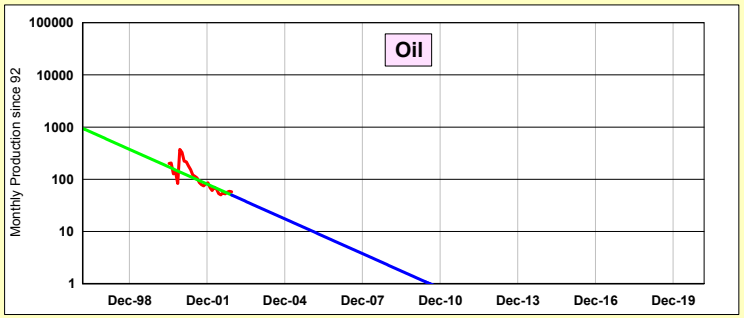
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2000 | 1,132 | 198 | 2,170 | 1,132 | 198 | 2,170 | 175 |
| 2 | 2001 | 1,763 | 536 | 3,989 | 2,896 | 734 | 6,159 | 304 |
| 3 | 2002 | 737 | 446 | 1,725 | 3,632 | 1,180 | 7,884 | 605 |
| 4 | 2003 | 460 | 276 | 1,077 | 4,092 | 1,456 | 8,961 | 600 |
| 5 | 2004 | 276 | 166 | 646 | 4,368 | 1,622 | 9,608 | 600 |
| 6 | 2005 | 166 | 99 | 388 | 4,534 | 1,721 | 9,995 | 600 |
| 7 | 2006 | 99 | 60 | 233 | 4,633 | 1,780 | 10,228 | 600 |
| 8 | 2007 | 60 | 36 | 140 | 4,692 | 1,816 | 10,368 | 600 |
| 9 | 2008 | 36 | 21 | 84 | 4,728 | 1,838 | 10,452 | 600 |
| 10 | 2009 | 21 | 13 | 50 | 4,750 | 1,851 | 10,502 | 600 |
| 11 | 2010 | 13 | 8 | 30 | 4,763 | 1,858 | 10,532 | 600 |
| 12 | 2011 | 8 | 5 | 18 | 4,770 | 1,863 | 10,550 | 600 |
| 13 | 2012 | 5 | 3 | 11 | 4,775 | 1,866 | 10,561 | 600 |
| 14 | 2013 | 3 | 2 | 7 | 4,778 | 1,867 | 10,567 | 600 |
| 15 | 2014 | 2 | 1 | 4 | 4,779 | 1,868 | 10,571 | 600 |
| 16 | 2015 | 1 | 1 | 2 | 4,780 | 1,869 | 10,574 | 600 |
| 17 | 2016 | 1 | 0 | 1 | 4,781 | 1,869 | 10,575 | 600 |
| 18 | 2017 | 0 | 0 | 1 | 4,781 | 1,870 | 10,576 | 600 |

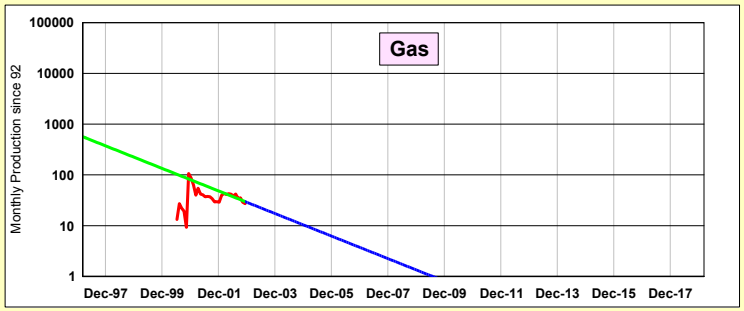
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

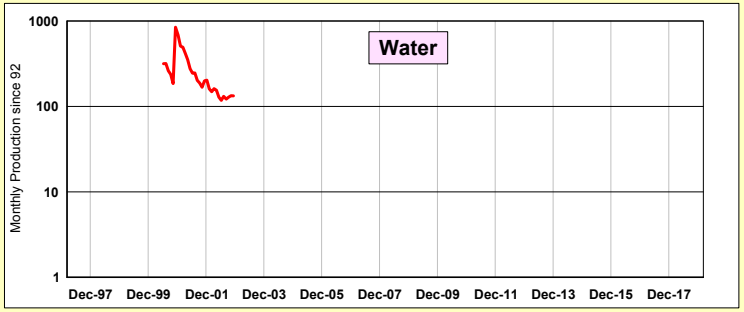
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 600 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 50 | m3/mo. |
| Decline Rate: | 40% | per year | Decline Rate: | 40% | per year |
| Decline Factor: | **0.0417** | per month | Decline Factor: | **0.0417** | per month |



Well No.: **T009348**

Well Name: **Talisman (Horiz. #2), Mersea 7 - 237 - STR**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T009348**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 186 | m3 per m3 | 278 | last year | |
| 2002 Water/Oil ratio: | 0.5547 | m3 per m3 | 0.2876 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.9934 | m3 per e3m3 | 1.5452 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **219** | m3/yr | **61** | e3m3/yr | **122** | m3/yr |
| Cumm to Date: | **2,183** | m3 | **406** | e3m3 | **628** | m3 |
| Remaining Recoverable: | **126** | m3 | **35** | e3m3 | **70** | m3 |
| Total Recovery: | **2,309** | m3 | **441** | e3m3 | **698** | m3 |
| Peak Rate: | 4.2 | m3/d | 0.7 | e3m3/d | based on annual | |
| Peak Rate: | 13.2 | m3/d | 1.1 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.2 | m3/d | 0.3 | e3m3/d | per day based on annual | |
| Current Rate: | 0.6 | m3/d | 0.2 | e3m3/d | | |
| Current decline rate: | 60% | | annually | | | |

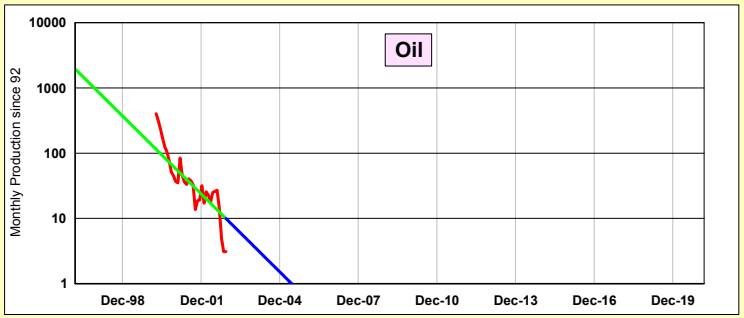
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2000 | 1,529 | 243 | 267 | 1,529 | 243 | 267 | 159 |
| 2 | 2001 | 434 | 102 | 240 | 1,964 | 345 | 506 | 235 |
| 3 | 2002 | 219 | 61 | 122 | 2,183 | 406 | 628 | 278 |
| 4 | 2003 | 76 | 21 | 42 | 2,259 | 427 | 670 | 275 |
| 5 | 2004 | 30 | 8 | 17 | 2,289 | 435 | 687 | 275 |
| 6 | 2005 | 12 | 3 | 7 | 2,301 | 439 | 693 | 275 |
| 7 | 2006 | 5 | 1 | 3 | 2,306 | 440 | 696 | 275 |
| 8 | 2007 | 2 | 1 | 1 | 2,308 | 441 | 697 | 275 |
| 9 | 2008 | 1 | 0 | 0 | 2,308 | 441 | 697 | 275 |
| 10 | 2009 | 0 | 0 | 0 | 2,309 | 441 | 698 | 275 |
| 11 | 2010 | 0 | 0 | 0 | 2,309 | 441 | 698 | 275 |
| 12 | 2011 | 0 | 0 | 0 | 2,309 | 441 | 698 | 275 |
| 13 | 2012 | 0 | 0 | 0 | 2,309 | 441 | 698 | 275 |
| 14 | 2013 | 0 | 0 | 0 | 2,309 | 441 | 698 | 275 |
| 15 | 2014 | 0 | 0 | 0 | 2,309 | 441 | 698 | 275 |
| 16 | 2015 | 0 | 0 | 0 | 2,309 | 441 | 698 | 275 |
| 17 | 2016 | 0 | 0 | 0 | 2,309 | 441 | 698 | 275 |
| 18 | 2017 | 0 | 0 | 0 | 2,309 | 441 | 698 | 275 |

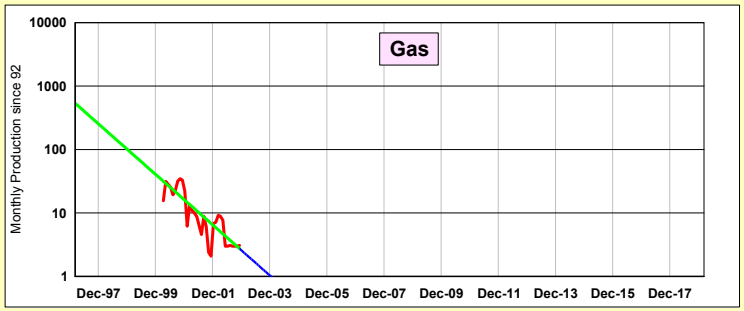
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

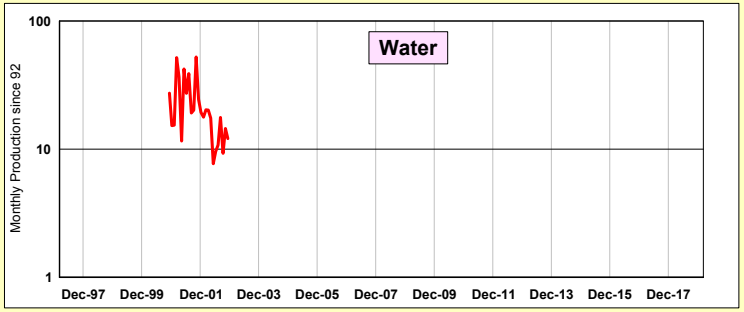
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 275 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 10 | m3/mo. |
| Decline Rate: | 60% | per year | Decline Rate: | 60% | per year |
| Decline Factor: | **0.0735** | per month | Decline Factor: | **0.0735** | per month |



Well No.: **T009239**

Well Name: **Talisman (Horiz.#1) , Mersea 5 - 3 - VI**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T009239**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 199 | m3 per m3 | 1,111 | last year | |
| 2002 Water/Oil ratio: | 1.8777 | m3 per m3 | 1.6516 | last 10 years | |
| 2002 Water/ Gas Ratio: | 1.6896 | m3 per e3m3 | 8.2974 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **118** | m3/yr | **131** | e3m3/yr | **221** | m3/yr |
| Cumm to Date: | **2,990** | m3 | **595** | e3m3 | **4,938** | m3 |
| Remaining Recoverable: | **35** | m3 | **35** | e3m3 | **65** | m3 |
| Total Recovery: | **3,025** | m3 | **630** | e3m3 | **5,003** | m3 |
| Peak Rate: | 6.0 | m3/d | 0.7 | e3m3/d | based on annual | |
| Peak Rate: | 12.7 | m3/d | 1.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.9 | m3/d | 0.6 | e3m3/d | per day based on annual | |
| Current Rate: | 0.3 | m3/d | 0.4 | e3m3/d | | |
| Current decline rate: | 80% | | annually | | | |

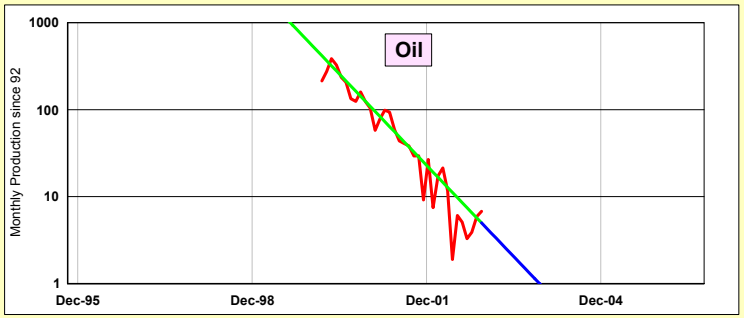
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1999 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 2000 | 2,189 | 262 | 3,440 | 2,189 | 262 | 3,440 | 120 |
| 2 | 2001 | 684 | 203 | 1,277 | 2,872 | 464 | 4,717 | 296 |
| 3 | 2002 | 118 | 131 | 221 | 2,990 | 595 | 4,938 | 1,111 |
| 4 | 2003 | 28 | 28 | 52 | 3,018 | 623 | 4,990 | 1,000 |
| 5 | 2004 | 6 | 6 | 10 | 3,023 | 629 | 5,001 | 1,000 |
| 6 | 2005 | 1 | 1 | 2 | 3,024 | 630 | 5,003 | 1,000 |
| 7 | 2006 | 0 | 0 | 0 | 3,024 | 630 | 5,003 | 1,000 |
| 8 | 2007 | 0 | 0 | 0 | 3,025 | 630 | 5,003 | 1,000 |
| 9 | 2008 | 0 | 0 | 0 | 3,025 | 630 | 5,003 | 1,000 |
| 10 | 2009 | 0 | 0 | 0 | 3,025 | 630 | 5,003 | 1,000 |
| 11 | 2010 | 0 | 0 | 0 | 3,025 | 630 | 5,003 | 1,000 |
| 12 | 2011 | 0 | 0 | 0 | 3,025 | 630 | 5,003 | 1,000 |
| 13 | 2012 | 0 | 0 | 0 | 3,025 | 630 | 5,003 | 1,000 |
| 14 | 2013 | 0 | 0 | 0 | 3,025 | 630 | 5,003 | 1,000 |
| 15 | 2014 | 0 | 0 | 0 | 3,025 | 630 | 5,003 | 1,000 |
| 16 | 2015 | 0 | 0 | 0 | 3,025 | 630 | 5,003 | 1,000 |
| 17 | 2016 | 0 | 0 | 0 | 3,025 | 630 | 5,003 | 1,000 |
| 18 | 2017 | 0 | 0 | 0 | 3,025 | 630 | 5,003 | 1,000 |

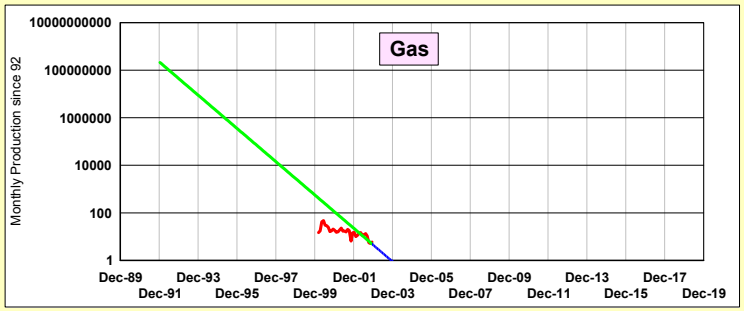
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

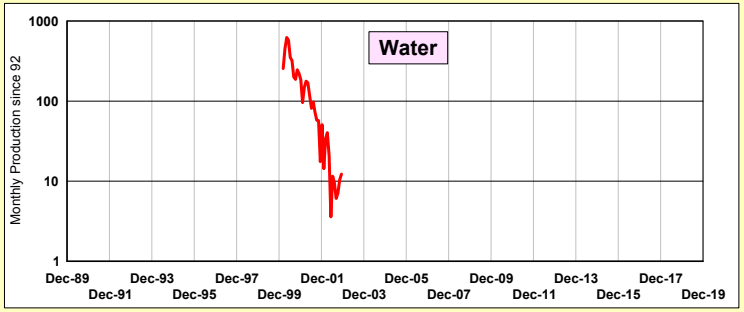
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 1000 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 5 | m3/mo. |
| Decline Rate: | 80% | per year | Decline Rate: | 80% | per year |
| Decline Factor: | **0.1255** | per month | Decline Factor: | **0.1255** | per month |



Well No.: **T008834**

Well Name: **Talisman (Horiz.# 1), Mersea 2 - 8 - IV**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008834**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 96 | m3 per m3 | 154 | last year | |
| 2002 Water/Oil ratio: | 0.4269 | m3 per m3 | 0.3735 | last 10 years | |
| 2002 Water/ Gas Ratio: | 2.7763 | m3 per e3m3 | 3.8826 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,706** | m3/yr | **262** | e3m3/yr | **729** | m3/yr |
| Cumm to Date: | **19,733** | m3 | **1,898** | e3m3 | **7,370** | m3 |
| Remaining Recoverable: | **3,299** | m3 | **495** | e3m3 | **1,408** | m3 |
| Total Recovery: | **23,031** | m3 | **2,393** | e3m3 | **8,778** | m3 |
| Peak Rate: | 25.4 | m3/d | 1.8 | e3m3/d | based on annual | |
| Peak Rate: | 50.7 | m3/d | 4.4 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 15.4 | m3/d | 1.4 | e3m3/d | per day based on annual | |
| Current Rate: | 4.7 | m3/d | 0.7 | e3m3/d | | |
| Current decline rate: | 30% | | annually | | | |

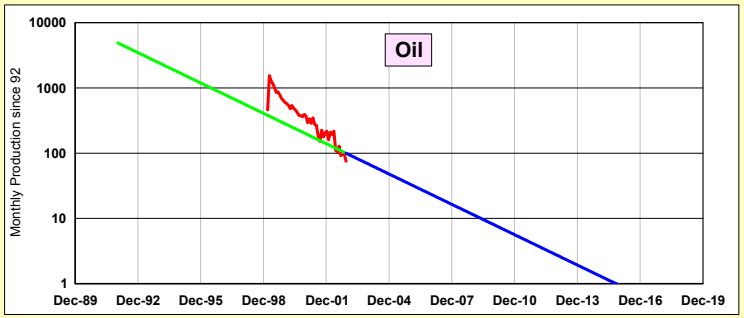
| Prod Year | Year | Oil m3 | Gas e3m3 | H2O m3 | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1998 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1999 | 9,294 | 664 | 2,642 | 9,294 | 664 | 2,642 | 71 |
| 2 | 2000 | 5,615 | 509 | 2,354 | 14,909 | 1,173 | 4,996 | 91 |
| 3 | 2001 | 3,117 | 463 | 1,646 | 18,026 | 1,636 | 6,641 | 149 |
| 4 | 2002 | 1,706 | 262 | 729 | 19,733 | 1,898 | 7,370 | 154 |
| 5 | 2003 | 994 | 149 | 425 | 20,727 | 2,047 | 7,794 | 150 |
| 6 | 2004 | 696 | 104 | 297 | 21,423 | 2,152 | 8,092 | 150 |
| 7 | 2005 | 487 | 73 | 208 | 21,910 | 2,225 | 8,300 | 150 |
| 8 | 2006 | 341 | 51 | 146 | 22,251 | 2,276 | 8,445 | 150 |
| 9 | 2007 | 239 | 36 | 102 | 22,490 | 2,312 | 8,547 | 150 |
| 10 | 2008 | 167 | 25 | 71 | 22,657 | 2,337 | 8,619 | 150 |
| 11 | 2009 | 117 | 18 | 50 | 22,774 | 2,354 | 8,669 | 150 |
| 12 | 2010 | 82 | 12 | 35 | 22,856 | 2,367 | 8,704 | 150 |
| 13 | 2011 | 57 | 9 | 24 | 22,913 | 2,375 | 8,728 | 150 |
| 14 | 2012 | 40 | 6 | 17 | 22,954 | 2,381 | 8,745 | 150 |
| 15 | 2013 | 28 | 4 | 12 | 22,982 | 2,386 | 8,757 | 150 |
| 16 | 2014 | 20 | 3 | 8 | 23,001 | 2,389 | 8,765 | 150 |
| 17 | 2015 | 14 | 2 | 6 | 23,015 | 2,391 | 8,771 | 150 |
| 18 | 2016 | 10 | 1 | 4 | 23,025 | 2,392 | 8,775 | 150 |
| 19 | 2017 | 7 | 1 | 3 | 23,031 | 2,393 | 8,778 | 150 |

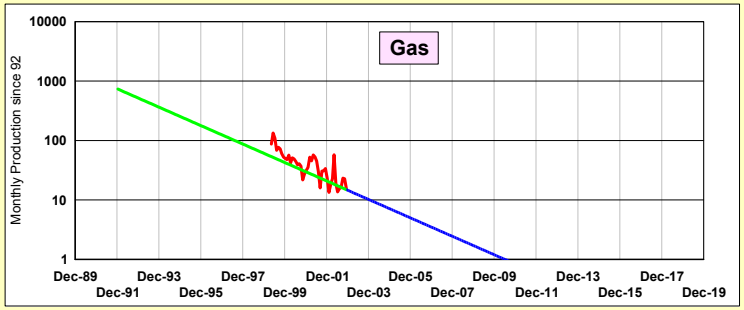
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

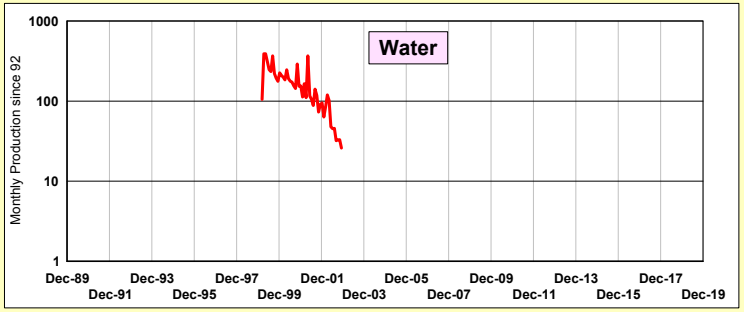
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 150 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 100 | m3/mo. |
| Decline Rate: | 30% | per year | Decline Rate: | 30% | per year |
| Decline Factor: | 0.0293 | per month | Decline Factor: | 0.0293 | per month |



Well No.: **T008758**

Well Name: **Talisman (Horiz.#1), Mersea 2 - 7 - IV**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008758**

| | | | | |
|---|---|---|---|---|
| Historical GOR: | 188 | m3 per m3 | 246 | last year |
| 2002 Water/Oil ratio: | 1.0478 | m3 per m3 | 1.0031 | last 10 years |
| 2002 Water/ Gas Ratio: | 4.2516 | m3 per e3m3 | 5.3237 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **2,736** | m3/yr | **674** | e3m3/yr | **2,866** | m3/yr |
| Cumm to Date: | **12,199** | m3 | **2,299** | e3m3 | **12,237** | m3 |
| Remaining Recoverable: | **8,133** | m3 | **2,033** | e3m3 | **8,522** | m3 |
| Total Recovery: | **20,332** | m3 | **4,332** | e3m3 | **20,758** | m3 |
| Peak Rate: | 8.8 | m3/d | 1.9 | e3m3/d | based on annual | |
| Peak Rate: | 20.5 | m3/d | 3.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 8.8 | m3/d | 1.2 | e3m3/d | per day based on annual | |
| Current Rate: | 7.5 | m3/d | 1.8 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

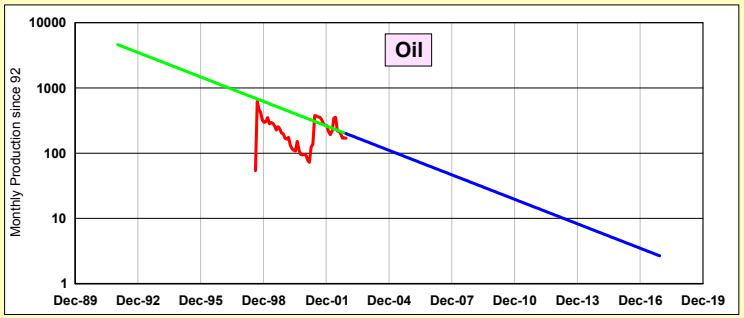
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1998 | 1,887 | 167 | 1,333 | 1,887 | 167 | 1,333 | 89 |
| 2 | 1999 | 3,199 | 425 | 2,653 | 5,086 | 592 | 3,986 | 133 |
| 3 | 2000 | 1,528 | 340 | 2,223 | 6,614 | 932 | 6,209 | 223 |
| 4 | 2001 | 2,850 | 692 | 3,161 | 9,464 | 1,624 | 9,370 | 243 |
| 5 | 2002 | 2,736 | 674 | 2,866 | 12,199 | 2,299 | 12,237 | 246 |
| 6 | 2003 | 2,061 | 515 | 2,159 | 14,260 | 2,814 | 14,396 | 250 |
| 7 | 2004 | 1,546 | 386 | 1,619 | 15,806 | 3,200 | 16,015 | 250 |
| 8 | 2005 | 1,159 | 290 | 1,215 | 16,965 | 3,490 | 17,230 | 250 |
| 9 | 2006 | 869 | 217 | 911 | 17,834 | 3,707 | 18,141 | 250 |
| 10 | 2007 | 652 | 163 | 683 | 18,486 | 3,870 | 18,824 | 250 |
| 11 | 2008 | 489 | 122 | 512 | 18,975 | 3,992 | 19,336 | 250 |
| 12 | 2009 | 367 | 92 | 384 | 19,342 | 4,084 | 19,721 | 250 |
| 13 | 2010 | 275 | 69 | 288 | 19,617 | 4,153 | 20,009 | 250 |
| 14 | 2011 | 206 | 52 | 216 | 19,823 | 4,205 | 20,225 | 250 |
| 15 | 2012 | 155 | 39 | 162 | 19,978 | 4,243 | 20,387 | 250 |
| 16 | 2013 | 116 | 29 | 122 | 20,094 | 4,272 | 20,509 | 250 |
| 17 | 2014 | 87 | 22 | 91 | 20,181 | 4,294 | 20,600 | 250 |
| 18 | 2015 | 65 | 16 | 68 | 20,246 | 4,310 | 20,668 | 250 |
| 19 | 2016 | 49 | 12 | 51 | 20,295 | 4,323 | 20,720 | 250 |
| 20 | 2017 | 37 | 9 | 38 | 20,332 | 4,332 | 20,758 | 250 |

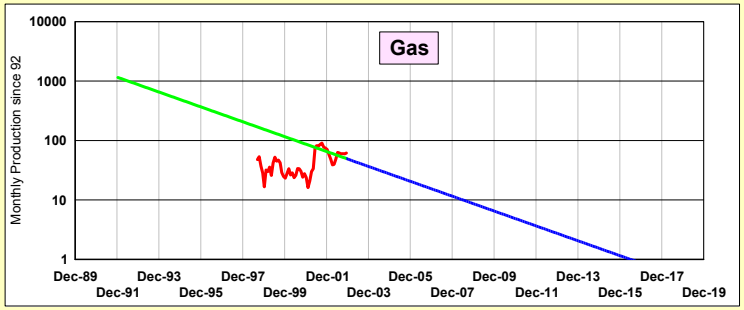
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

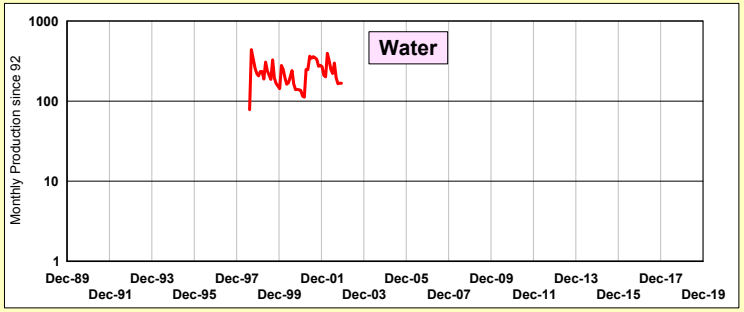
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 250 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 200 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T008757**

Well Name: **Talisman(Horiz.#1), Mersea 5 - 6 - V**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008757**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 188 | m3 per m3 | 268 | last year | |
| 2002 Water/Oil ratio: | 1.2781 | m3 per m3 | 0.8790 | last 10 years | |
| 2002 Water/ Gas Ratio: | 4.7693 | m3 per e3m3 | 4.6651 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,100** | m3/yr | **295** | e3m3/yr | **1,406** | m3/yr |
| Cumm to Date: | **11,841** | m3 | **2,231** | e3m3 | **10,408** | m3 |
| Remaining Recoverable: | **3,660** | m3 | **988** | e3m3 | **4,677** | m3 |
| Total Recovery: | **15,501** | m3 | **3,219** | e3m3 | **15,085** | m3 |
| Peak Rate: | 11.8 | m3/d | 2.2 | e3m3/d | based on annual | |
| Peak Rate: | 20.0 | m3/d | 3.8 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 11.8 | m3/d | 2.2 | e3m3/d | per day based on annual | |
| Current Rate: | 3.0 | m3/d | 0.8 | e3m3/d | | |
| Current decline rate: | 25% | | annually | | | |

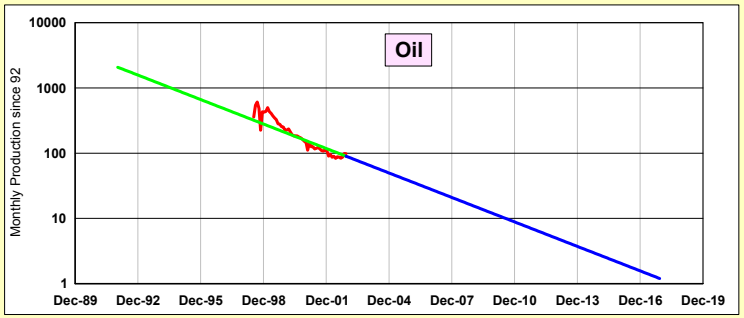
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1998 | 2,653 | 293 | 1,741 | 2,653 | 293 | 1,741 | 110 |
| 2 | 1999 | 4,319 | 819 | 3,446 | 6,972 | 1,112 | 5,186 | 190 |
| 3 | 2000 | 2,311 | 417 | 2,053 | 9,283 | 1,529 | 7,239 | 180 |
| 4 | 2001 | 1,459 | 407 | 1,763 | 10,741 | 1,936 | 9,002 | 279 |
| 5 | 2002 | 1,100 | 295 | 1,406 | 11,841 | 2,231 | 10,408 | 268 |
| 6 | 2003 | 927 | 250 | 1,185 | 12,768 | 2,481 | 11,593 | 270 |
| 7 | 2004 | 695 | 188 | 889 | 13,464 | 2,669 | 12,482 | 270 |
| 8 | 2005 | 522 | 141 | 667 | 13,986 | 2,810 | 13,149 | 270 |
| 9 | 2006 | 391 | 106 | 500 | 14,377 | 2,916 | 13,649 | 270 |
| 10 | 2007 | 293 | 79 | 375 | 14,670 | 2,995 | 14,024 | 270 |
| 11 | 2008 | 220 | 59 | 281 | 14,890 | 3,054 | 14,305 | 270 |
| 12 | 2009 | 165 | 45 | 211 | 15,055 | 3,099 | 14,516 | 270 |
| 13 | 2010 | 124 | 33 | 158 | 15,179 | 3,132 | 14,674 | 270 |
| 14 | 2011 | 93 | 25 | 119 | 15,272 | 3,157 | 14,793 | 270 |
| 15 | 2012 | 70 | 19 | 89 | 15,342 | 3,176 | 14,882 | 270 |
| 16 | 2013 | 52 | 14 | 67 | 15,394 | 3,190 | 14,948 | 270 |
| 17 | 2014 | 39 | 11 | 50 | 15,433 | 3,201 | 14,998 | 270 |
| 18 | 2015 | 29 | 8 | 38 | 15,462 | 3,209 | 15,036 | 270 |
| 19 | 2016 | 22 | 6 | 28 | 15,484 | 3,215 | 15,064 | 270 |
| 20 | 2017 | 17 | 4 | 21 | 15,501 | 3,219 | 15,085 | 270 |

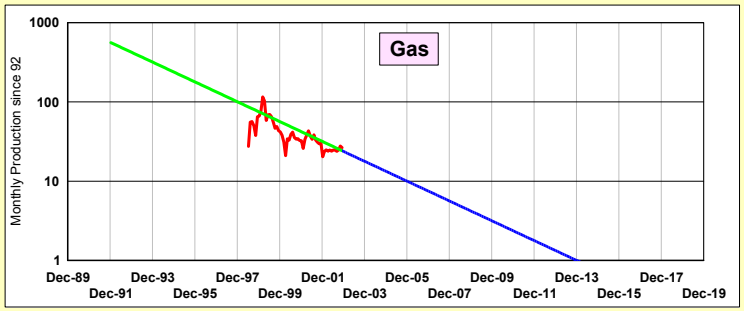
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

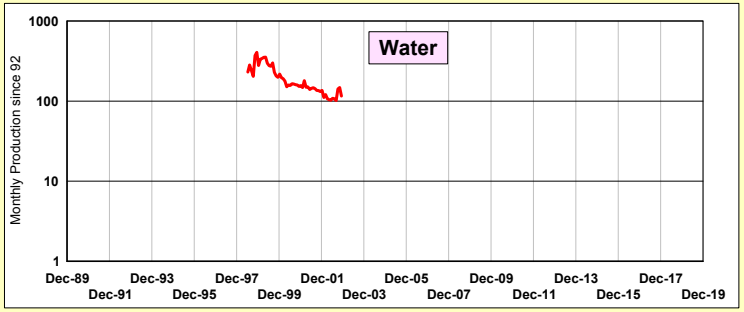
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 270 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 90 | m3/mo. |
| Decline Rate: | 25% | per year | Decline Rate: | 25% | per year |
| Decline Factor: | **0.0237** | per month | Decline Factor: | **0.0237** | per month |



Well No.: **T008572**

Well Name: **Pembina et al (Horiz #2), Mersea 3 - 4 - VI**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008572**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 85 | m3 per m3 | 138 | last year | |
| 2002 Water/Oil ratio: | 1.7081 | m3 per m3 | 1.0845 | last 10 years | |
| 2002 Water/ Gas Ratio: | 12.3425 | m3 per e3m3 | 12.7461 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **1,133** | m3/yr | **157** | e3m3/yr | **1,935** | m3/yr |
| Cumm to Date: | **10,697** | m3 | **910** | e3m3 | **11,602** | m3 |
| Remaining Recoverable: | **4,626** | m3 | **648** | e3m3 | **7,902** | m3 |
| Total Recovery: | **15,324** | m3 | **1,558** | e3m3 | **19,504** | m3 |
| Peak Rate: | 9.0 | m3/d | 0.6 | e3m3/d | based on annual | |
| Peak Rate: | 17.9 | m3/d | 1.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 9.0 | m3/d | 0.6 | e3m3/d | per day based on annual | |
| Current Rate: | 3.1 | m3/d | 0.4 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

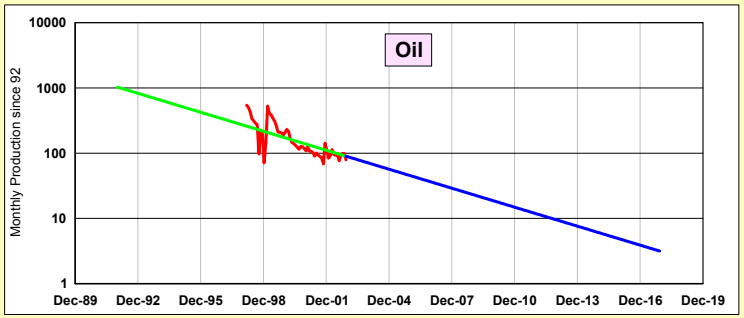
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1997 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1998 | 3,218 | 205 | 2,340 | 3,218 | 205 | 2,340 | 64 |
| 2 | 1999 | 3,272 | 209 | 3,168 | 6,491 | 413 | 5,508 | 64 |
| 3 | 2000 | 1,852 | 175 | 2,400 | 8,342 | 588 | 7,908 | 95 |
| 4 | 2001 | 1,222 | 165 | 1,758 | 9,564 | 753 | 9,666 | 135 |
| 5 | 2002 | 1,133 | 157 | 1,935 | 10,697 | 910 | 11,602 | 138 |
| 6 | 2003 | 959 | 134 | 1,638 | 11,656 | 1,044 | 13,240 | 140 |
| 7 | 2004 | 767 | 107 | 1,310 | 12,424 | 1,152 | 14,550 | 140 |
| 8 | 2005 | 614 | 86 | 1,048 | 13,037 | 1,238 | 15,598 | 140 |
| 9 | 2006 | 491 | 69 | 839 | 13,528 | 1,307 | 16,437 | 140 |
| 10 | 2007 | 393 | 55 | 671 | 13,921 | 1,362 | 17,108 | 140 |
| 11 | 2008 | 314 | 44 | 537 | 14,235 | 1,406 | 17,645 | 140 |
| 12 | 2009 | 251 | 35 | 429 | 14,487 | 1,441 | 18,074 | 140 |
| 13 | 2010 | 201 | 28 | 344 | 14,688 | 1,469 | 18,418 | 140 |
| 14 | 2011 | 161 | 23 | 275 | 14,849 | 1,491 | 18,693 | 140 |
| 15 | 2012 | 129 | 18 | 220 | 14,978 | 1,509 | 18,913 | 140 |
| 16 | 2013 | 103 | 14 | 176 | 15,081 | 1,524 | 19,088 | 140 |
| 17 | 2014 | 82 | 12 | 141 | 15,163 | 1,535 | 19,229 | 140 |
| 18 | 2015 | 66 | 9 | 113 | 15,229 | 1,545 | 19,342 | 140 |
| 19 | 2016 | 53 | 7 | 90 | 15,282 | 1,552 | 19,432 | 140 |
| 20 | 2017 | 42 | 6 | 72 | 15,324 | 1,558 | 19,504 | 140 |

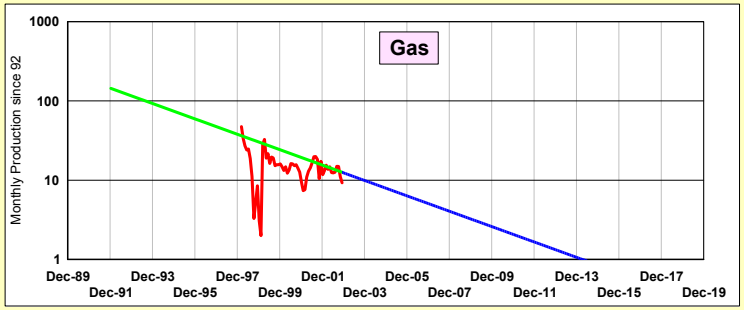
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

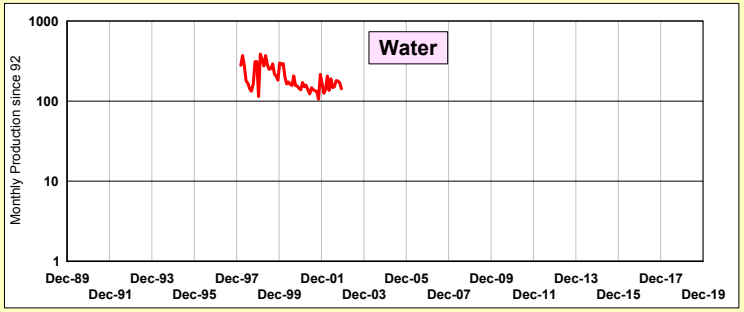
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 140 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 90 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008453**

Well Name: **Clearwood, Mersea 7 - 238 - NTR**

Status: **Abandoned Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008453**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.2499 | m3 per m3 | | 0.2684 | last 10 years |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | | ERR | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **25** | m3/yr | **0** | e3m3/yr | **6** | m3/yr |
| Cumm to Date: | **1,069** | m3 | **0** | e3m3 | **287** | m3 |
| Remaining Recoverable: | **134** | m3 | **0** | e3m3 | **33** | m3 |
| Total Recovery: | **1,203** | m3 | **0** | e3m3 | **320** | m3 |
| Peak Rate: | 1.6 | m3/d | 0.0 | e3m3/d | based on annual | |
| Peak Rate: | 4.5 | m3/d | 0.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 0.6 | m3/d | 0.0 | e3m3/d | per day based on annual | |
| Current Rate: | 0.1 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

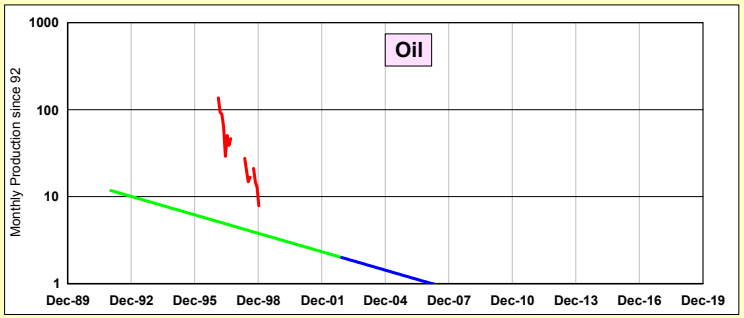
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1997 | 601 | 0 | 0 | 601 | 0 | 0 | 0 |
| 2 | 1998 | 206 | 0 | 168 | 807 | 0 | 168 | 0 |
| 3 | 1999 | 81 | 0 | 84 | 888 | 0 | 253 | 0 |
| 4 | 2000 | 91 | 0 | 17 | 979 | 0 | 270 | 0 |
| 5 | 2001 | 65 | 0 | 11 | 1,044 | 0 | 281 | 0 |
| 6 | 2002 | 25 | 0 | 6 | 1,069 | 0 | 287 | 0 |
| 7 | 2003 | 22 | 0 | 5 | 1,091 | 0 | 292 | 0 |
| 8 | 2004 | 19 | 0 | 5 | 1,110 | 0 | 297 | 0 |
| 9 | 2005 | 16 | 0 | 4 | 1,126 | 0 | 301 | 0 |
| 10 | 2006 | 14 | 0 | 3 | 1,139 | 0 | 304 | 0 |
| 11 | 2007 | 11 | 0 | 3 | 1,151 | 0 | 307 | 0 |
| 12 | 2008 | 10 | 0 | 2 | 1,160 | 0 | 310 | 0 |
| 13 | 2009 | 8 | 0 | 2 | 1,169 | 0 | 312 | 0 |
| 14 | 2010 | 7 | 0 | 2 | 1,176 | 0 | 314 | 0 |
| 15 | 2011 | 6 | 0 | 1 | 1,182 | 0 | 315 | 0 |
| 16 | 2012 | 5 | 0 | 1 | 1,187 | 0 | 316 | 0 |
| 17 | 2013 | 4 | 0 | 1 | 1,191 | 0 | 317 | 0 |
| 18 | 2014 | 4 | 0 | 1 | 1,195 | 0 | 318 | 0 |
| 19 | 2015 | 3 | 0 | 1 | 1,198 | 0 | 319 | 0 |
| 20 | 2016 | 3 | 0 | 1 | 1,201 | 0 | 320 | 0 |
| 21 | 2017 | 2 | 0 | 1 | 1,203 | 0 | 320 | 0 |

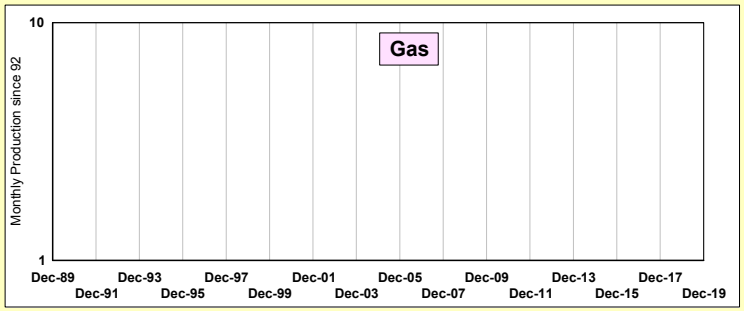
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

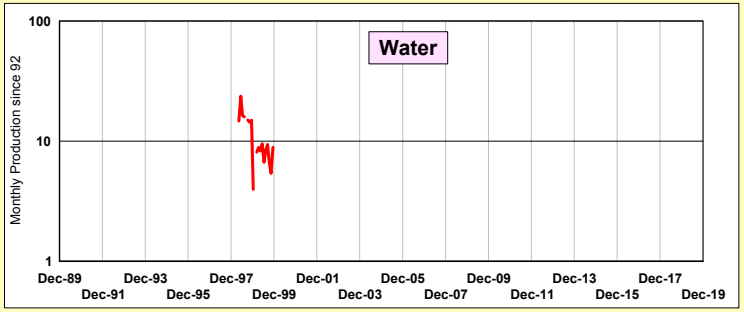
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 2 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T008452**

Well Name: **Pembina et al (Deviated #1), Mersea 6 - 6 - V**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008452**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 101 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 0.5288 | m3 per m3 | 0.4165 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 4.1160 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **114** | m3/yr | **0** | e3m3/yr | **61** | m3/yr |
| Cumm to Date: | **1,943** | m3 | **197** | e3m3 | **809** | m3 |
| Remaining Recoverable: | **535** | m3 | **0** | e3m3 | **283** | m3 |
| Total Recovery: | **2,478** | m3 | **197** | e3m3 | **1,092** | m3 |
| Peak Rate: | 2.0 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 3.3 | m3/d | 0.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 1.3 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.3 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

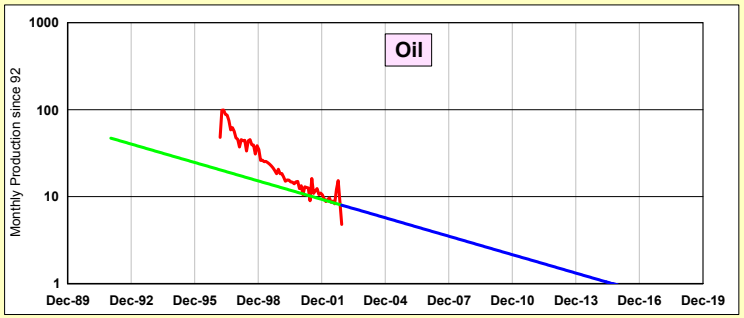
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1997 | 721 | 49 | 160 | 721 | 49 | 160 | 68 |
| 2 | 1998 | 488 | 45 | 255 | 1,209 | 94 | 415 | 93 |
| 3 | 1999 | 290 | 42 | 158 | 1,499 | 136 | 573 | 145 |
| 4 | 2000 | 186 | 34 | 99 | 1,684 | 170 | 672 | 180 |
| 5 | 2001 | 144 | 27 | 77 | 1,828 | 197 | 749 | 186 |
| 6 | 2002 | 114 | 0 | 61 | 1,943 | 197 | 809 | 0 |
| 7 | 2003 | 88 | 0 | 47 | 2,031 | 197 | 856 | 0 |
| 8 | 2004 | 75 | 0 | 40 | 2,106 | 197 | 895 | 0 |
| 9 | 2005 | 64 | 0 | 34 | 2,169 | 197 | 929 | 0 |
| 10 | 2006 | 54 | 0 | 29 | 2,223 | 197 | 958 | 0 |
| 11 | 2007 | 46 | 0 | 24 | 2,269 | 197 | 982 | 0 |
| 12 | 2008 | 39 | 0 | 21 | 2,308 | 197 | 1,002 | 0 |
| 13 | 2009 | 33 | 0 | 18 | 2,341 | 197 | 1,020 | 0 |
| 14 | 2010 | 28 | 0 | 15 | 2,370 | 197 | 1,035 | 0 |
| 15 | 2011 | 24 | 0 | 13 | 2,394 | 197 | 1,048 | 0 |
| 16 | 2012 | 20 | 0 | 11 | 2,414 | 197 | 1,058 | 0 |
| 17 | 2013 | 17 | 0 | 9 | 2,431 | 197 | 1,068 | 0 |
| 18 | 2014 | 15 | 0 | 8 | 2,446 | 197 | 1,075 | 0 |
| 19 | 2015 | 13 | 0 | 7 | 2,458 | 197 | 1,082 | 0 |
| 20 | 2016 | 11 | 0 | 6 | 2,469 | 197 | 1,088 | 0 |
| 21 | 2017 | 9 | 0 | 5 | 2,478 | 197 | 1,092 | 0 |

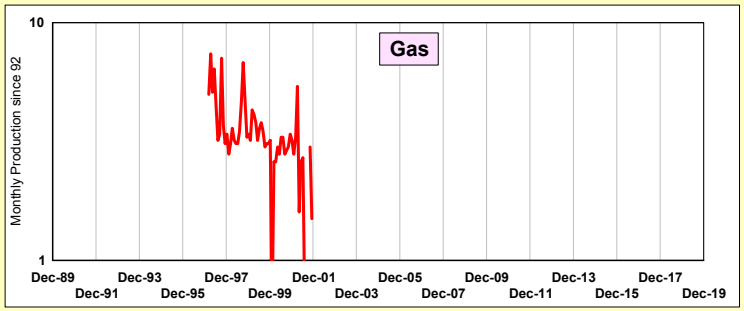
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

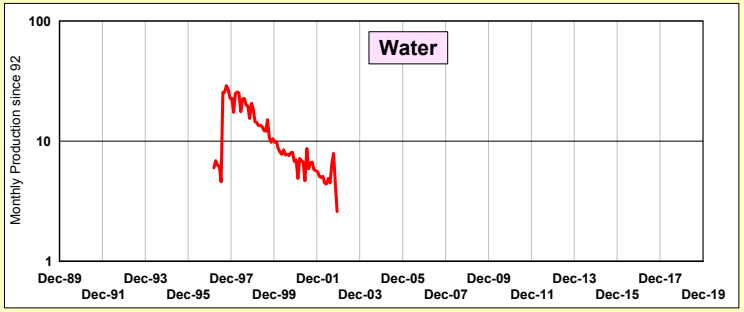
## Monthly Production vs Month + Forecast
*(since 1992)*

Basis---> **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 8 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T008421**

Well Name: **Pembina et al (Horiz. #1), Mersea 3 - 4 - VI**

Status: **Capped Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008421**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 0 | m3 per m3 | | 0 | last year |
| 2002 Water/Oil ratio: | 0.0000 | m3 per m3 | | 0.3736 | last 10 years |
| 2002 Water/ Gas Ratio: | 0.0000 | m3 per e3m3 | | 6.7128 | last 10 years |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **0** | m3/yr | **0** | e3m3/yr | **0** | m3/yr |
| Cumm to Date: | **6,070** | m3 | **338** | e3m3 | **2,268** | m3 |
| Remaining Recoverable: | **0** | m3 | **0** | e3m3 | **0** | m3 |
| Total Recovery: | **6,070** | m3 | **338** | e3m3 | **2,268** | m3 |
| Peak Rate: | 8.3 | m3/d | 0.4 | e3m3/d | based on annual | |
| Peak Rate: | 33.0 | m3/d | 1.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 8.3 | m3/d | 0.4 | e3m3/d | per day based on annual | |
| Current Rate: | 0.0 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

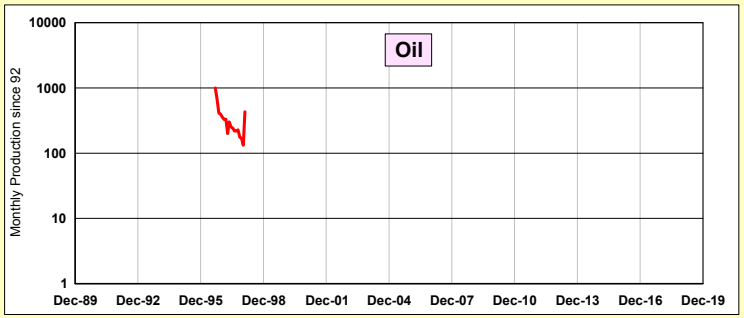
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1996 | 2,481 | 142 | 544 | 2,481 | 142 | 544 | 57 |
| 2 | 1997 | 3,026 | 161 | 1,390 | 5,507 | 302 | 1,934 | 53 |
| 3 | 1998 | 564 | 36 | 334 | 6,070 | 338 | 2,268 | 63 |
| 3 | 1999 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2000 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2001 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2002 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2003 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2004 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2005 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2006 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2007 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2008 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2009 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2010 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2011 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2012 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2013 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2014 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2015 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2016 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |
| 3 | 2017 | 0 | 0 | 0 | 6,070 | 338 | 2,268 | ERR |

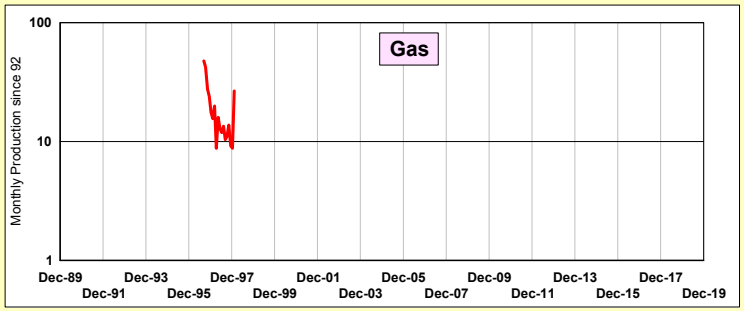
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

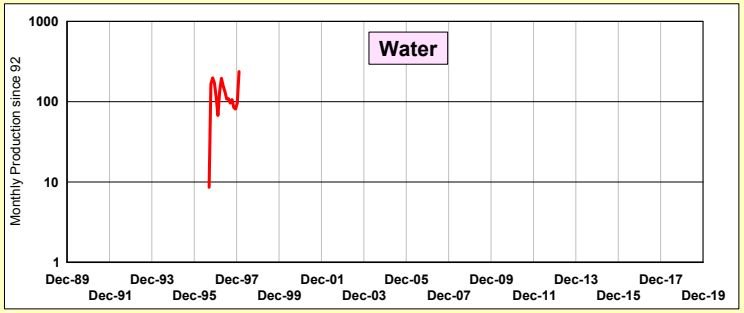
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 0 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T008408**

Well Name: **Pembina et al, Mersea 4 - 7 - IV**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008408**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 62 | m3 per m3 | 106 | last year | |
| 2002 Water/Oil ratio: | 2.1782 | m3 per m3 | 1.0901 | last 10 years | |
| 2002 Water/ Gas Ratio: | 20.6019 | m3 per e3m3 | 17.5998 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **204** | m3/yr | **22** | e3m3/yr | **445** | m3/yr |
| Cumm to Date: | **3,631** | m3 | **225** | e3m3 | **3,958** | m3 |
| Remaining Recoverable: | **617** | m3 | **93** | e3m3 | **1,344** | m3 |
| Total Recovery: | **4,248** | m3 | **317** | e3m3 | **5,302** | m3 |
| Peak Rate: | 2.4 | m3/d | 0.1 | e3m3/d | based on annual | |
| Peak Rate: | 11.3 | m3/d | 0.7 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.4 | m3/d | 0.1 | e3m3/d | per day based on annual | |
| Current Rate: | 0.6 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 20% | | annually | | | |

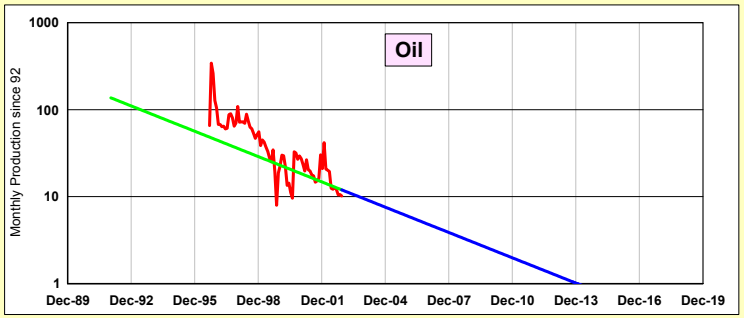
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1996 | 799 | 45 | 285 | 799 | 45 | 285 | 56 |
| 2 | 1997 | 884 | 41 | 1,059 | 1,683 | 86 | 1,344 | 47 |
| 3 | 1998 | 834 | 41 | 1,031 | 2,517 | 127 | 2,375 | 49 |
| 4 | 1999 | 387 | 29 | 488 | 2,904 | 156 | 2,863 | 75 |
| 5 | 2000 | 274 | 34 | 326 | 3,178 | 190 | 3,189 | 126 |
| 6 | 2001 | 249 | 13 | 324 | 3,427 | 203 | 3,513 | 53 |
| 7 | 2002 | 204 | 22 | 445 | 3,631 | 225 | 3,958 | 106 |
| 8 | 2003 | 128 | 19 | 279 | 3,759 | 244 | 4,237 | 150 |
| 9 | 2004 | 102 | 15 | 223 | 3,861 | 259 | 4,460 | 150 |
| 10 | 2005 | 82 | 12 | 178 | 3,943 | 272 | 4,638 | 150 |
| 11 | 2006 | 65 | 10 | 143 | 4,009 | 282 | 4,780 | 150 |
| 12 | 2007 | 52 | 8 | 114 | 4,061 | 289 | 4,894 | 150 |
| 13 | 2008 | 42 | 6 | 91 | 4,103 | 296 | 4,986 | 150 |
| 14 | 2009 | 34 | 5 | 73 | 4,136 | 301 | 5,059 | 150 |
| 15 | 2010 | 27 | 4 | 58 | 4,163 | 305 | 5,117 | 150 |
| 16 | 2011 | 21 | 3 | 47 | 4,185 | 308 | 5,164 | 150 |
| 17 | 2012 | 17 | 3 | 37 | 4,202 | 311 | 5,201 | 150 |
| 18 | 2013 | 14 | 2 | 30 | 4,216 | 313 | 5,231 | 150 |
| 19 | 2014 | 11 | 2 | 24 | 4,227 | 314 | 5,255 | 150 |
| 20 | 2015 | 9 | 1 | 19 | 4,235 | 316 | 5,274 | 150 |
| 21 | 2016 | 7 | 1 | 15 | 4,242 | 317 | 5,290 | 150 |
| 22 | 2017 | 6 | 1 | 12 | 4,248 | 317 | 5,302 | 150 |

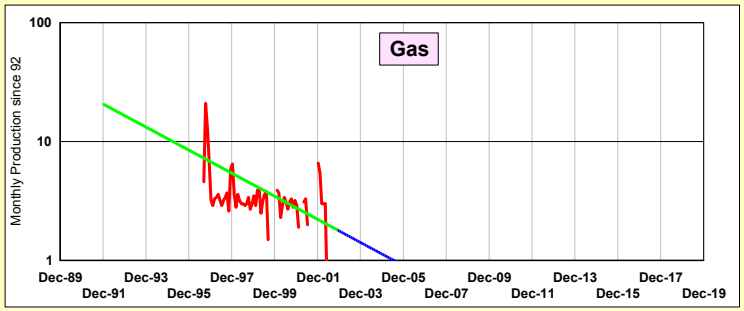
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

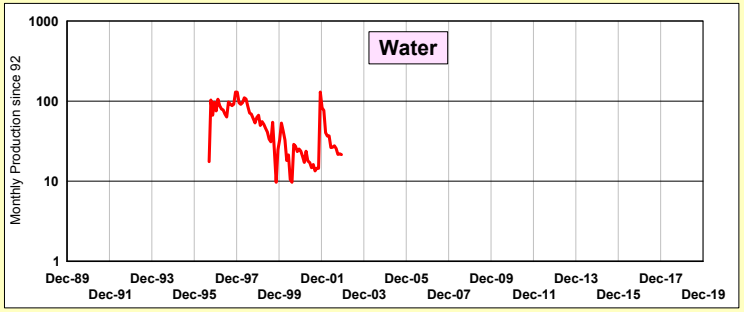
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 150 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 12 | m3/mo. |
| Decline Rate: | 20% | per year | Decline Rate: | 20% | per year |
| Decline Factor: | **0.0184** | per month | Decline Factor: | **0.0184** | per month |



Well No.: **T008402**

Well Name: **Pembina et al, Mersea 3 - 3 - VI**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008402**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 57 | m3 per m3 | 29 | last year | |
| 2002 Water/Oil ratio: | 0.1460 | m3 per m3 | 0.1464 | last 10 years | |
| 2002 Water/ Gas Ratio: | 4.9545 | m3 per e3m3 | 2.5625 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **224** | m3/yr | **7** | e3m3/yr | **33** | m3/yr |
| Cumm to Date: | **3,823** | m3 | **219** | e3m3 | **560** | m3 |
| Remaining Recoverable: | **1,138** | m3 | **57** | e3m3 | **166** | m3 |
| Total Recovery: | **4,961** | m3 | **275** | e3m3 | **726** | m3 |
| Peak Rate: | 2.9 | m3/d | 0.2 | e3m3/d | based on annual | |
| Peak Rate: | 5.8 | m3/d | 0.6 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 2.9 | m3/d | 0.2 | e3m3/d | per day based on annual | |
| Current Rate: | 0.6 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

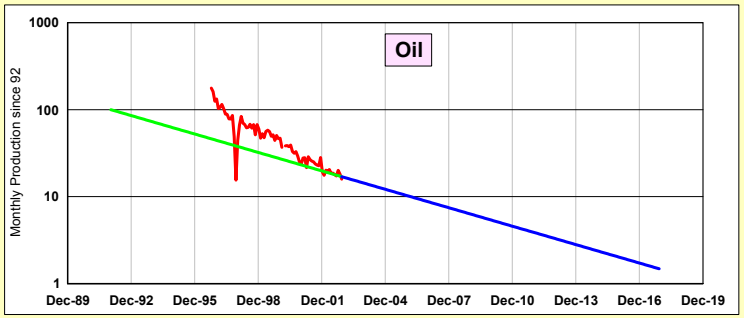
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1996 | 464 | 35 | 93 | 464 | 35 | 93 | 75 |
| 2 | 1997 | 1,046 | 58 | 10 | 1,510 | 93 | 103 | 55 |
| 3 | 1998 | 773 | 36 | 217 | 2,283 | 129 | 320 | 47 |
| 4 | 1999 | 621 | 28 | 132 | 2,904 | 157 | 451 | 44 |
| 5 | 2000 | 390 | 24 | 43 | 3,294 | 181 | 494 | 62 |
| 6 | 2001 | 305 | 31 | 33 | 3,599 | 212 | 527 | 101 |
| 7 | 2002 | 224 | 7 | 33 | 3,823 | 219 | 560 | 29 |
| 8 | 2003 | 187 | 9 | 27 | 4,010 | 228 | 587 | 50 |
| 9 | 2004 | 159 | 8 | 23 | 4,169 | 236 | 610 | 50 |
| 10 | 2005 | 135 | 7 | 20 | 4,304 | 243 | 630 | 50 |
| 11 | 2006 | 115 | 6 | 17 | 4,419 | 248 | 647 | 50 |
| 12 | 2007 | 98 | 5 | 14 | 4,517 | 253 | 661 | 50 |
| 13 | 2008 | 83 | 4 | 12 | 4,600 | 257 | 673 | 50 |
| 14 | 2009 | 71 | 4 | 10 | 4,670 | 261 | 684 | 50 |
| 15 | 2010 | 60 | 3 | 9 | 4,730 | 264 | 692 | 50 |
| 16 | 2011 | 51 | 3 | 7 | 4,781 | 266 | 700 | 50 |
| 17 | 2012 | 43 | 2 | 6 | 4,825 | 269 | 706 | 50 |
| 18 | 2013 | 37 | 2 | 5 | 4,861 | 270 | 711 | 50 |
| 19 | 2014 | 31 | 2 | 5 | 4,893 | 272 | 716 | 50 |
| 20 | 2015 | 27 | 1 | 4 | 4,919 | 273 | 720 | 50 |
| 21 | 2016 | 23 | 1 | 3 | 4,942 | 274 | 723 | 50 |
| 22 | 2017 | 19 | 1 | 3 | 4,961 | 275 | 726 | 50 |

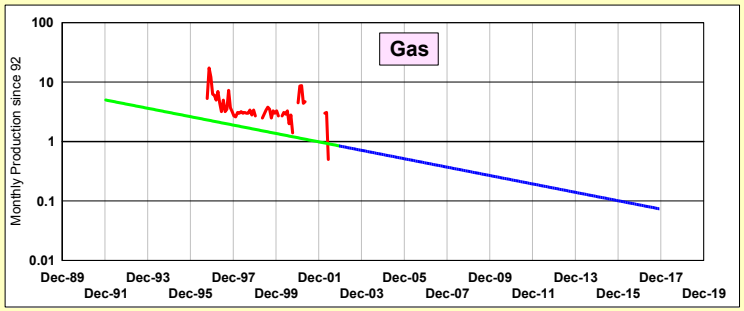
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

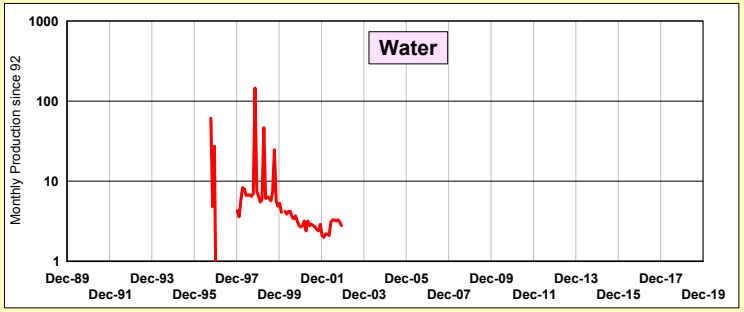
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 50 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 17 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T008358**

Well Name: **R.E.C. #4 A, Mersea 4 - 5 - V**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008358**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 133 | m3 per m3 | 39 | last year | |
| 2002 Water/Oil ratio: | 0.2977 | m3 per m3 | 0.2664 | last 10 years | |
| 2002 Water/ Gas Ratio: | 7.6554 | m3 per e3m3 | 2.0009 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **640** | m3/yr | **25** | e3m3/yr | **191** | m3/yr |
| Cumm to Date: | **9,575** | m3 | **1,275** | e3m3 | **2,551** | m3 |
| Remaining Recoverable: | **3,213** | m3 | **129** | e3m3 | **956** | m3 |
| Total Recovery: | **12,788** | m3 | **1,403** | e3m3 | **3,507** | m3 |
| Peak Rate: | 10.9 | m3/d | 1.8 | e3m3/d | based on annual | |
| Peak Rate: | 16.1 | m3/d | 4.2 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 5.1 | m3/d | 1.8 | e3m3/d | per day based on annual | |
| Current Rate: | 1.8 | m3/d | 0.1 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

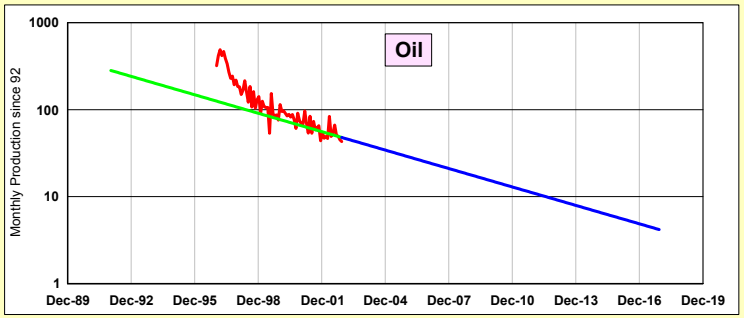
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1995 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1996 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1997 | 3,995 | 240 | 1,140 | 3,995 | 240 | 1,140 | 60 |
| 2 | 1998 | 1,872 | 649 | 466 | 5,867 | 888 | 1,606 | 347 |
| 3 | 1999 | 1,223 | 133 | 290 | 7,089 | 1,021 | 1,896 | 108 |
| 4 | 2000 | 1,046 | 117 | 213 | 8,136 | 1,138 | 2,110 | 112 |
| 5 | 2001 | 799 | 112 | 250 | 8,935 | 1,250 | 2,360 | 140 |
| 6 | 2002 | 640 | 25 | 191 | 9,575 | 1,275 | 2,551 | 39 |
| 7 | 2003 | 528 | 21 | 157 | 10,103 | 1,296 | 2,708 | 40 |
| 8 | 2004 | 449 | 18 | 134 | 10,552 | 1,314 | 2,842 | 40 |
| 9 | 2005 | 382 | 15 | 114 | 10,934 | 1,329 | 2,955 | 40 |
| 10 | 2006 | 324 | 13 | 97 | 11,258 | 1,342 | 3,052 | 40 |
| 11 | 2007 | 276 | 11 | 82 | 11,534 | 1,353 | 3,134 | 40 |
| 12 | 2008 | 234 | 9 | 70 | 11,768 | 1,362 | 3,203 | 40 |
| 13 | 2009 | 199 | 8 | 59 | 11,967 | 1,370 | 3,263 | 40 |
| 14 | 2010 | 169 | 7 | 50 | 12,136 | 1,377 | 3,313 | 40 |
| 15 | 2011 | 144 | 6 | 43 | 12,280 | 1,383 | 3,356 | 40 |
| 16 | 2012 | 122 | 5 | 36 | 12,403 | 1,388 | 3,392 | 40 |
| 17 | 2013 | 104 | 4 | 31 | 12,507 | 1,392 | 3,423 | 40 |
| 18 | 2014 | 88 | 4 | 26 | 12,595 | 1,396 | 3,450 | 40 |
| 19 | 2015 | 75 | 3 | 22 | 12,670 | 1,399 | 3,472 | 40 |
| 20 | 2016 | 64 | 3 | 19 | 12,734 | 1,401 | 3,491 | 40 |
| 21 | 2017 | 54 | 2 | 16 | 12,788 | 1,403 | 3,507 | 40 |

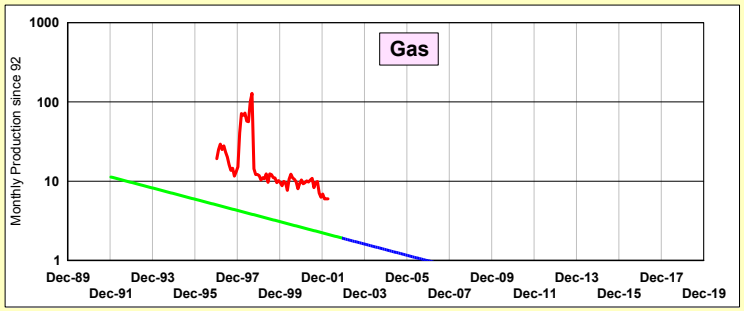
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

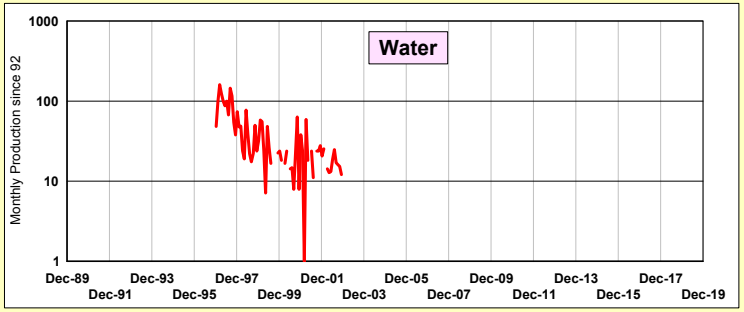
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 40 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 48 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



Well No.: **T008258**

Well Name: **Pembina et al, Mersea 6 - 239 - NTR**

Status: **Active Well**

MNR Pool: **Mersea 3-6-V**

TGI Pool: **Wigle-Olinda Pool**

TGI Field: **Wigle-Olinda Field**

Well: **T008258**

| | | | | | |
|---|---|---|---|---|---|
| Historical GOR: | 131 | m3 per m3 | 0 | last year | |
| 2002 Water/Oil ratio: | 1.6237 | m3 per m3 | 1.0623 | last 10 years | |
| 2002 Water/ Gas Ratio: | ERR | m3 per e3m3 | 8.0784 | last 10 years | |

| | Oil | | Gas | | Water | |
|---|---|---|---|---|---|---|
| Current Rate: | **559** | m3/yr | **0** | e3m3/yr | **907** | m3/yr |
| Cumm to Date: | **13,030** | m3 | **1,713** | e3m3 | **13,842** | m3 |
| Remaining Recoverable: | **2,343** | m3 | **0** | e3m3 | **3,804** | m3 |
| Total Recovery: | **15,372** | m3 | **1,713** | e3m3 | **17,645** | m3 |
| Peak Rate: | 12.4 | m3/d | 1.5 | e3m3/d | based on annual | |
| Peak Rate: | 22.2 | m3/d | 2.0 | e3m3/d | since '93 based on monthly | |
| Second Year Production: | 12.4 | m3/d | 1.5 | e3m3/d | per day based on annual | |
| Current Rate: | 1.5 | m3/d | 0.0 | e3m3/d | | |
| Current decline rate: | 15% | | annually | | | |

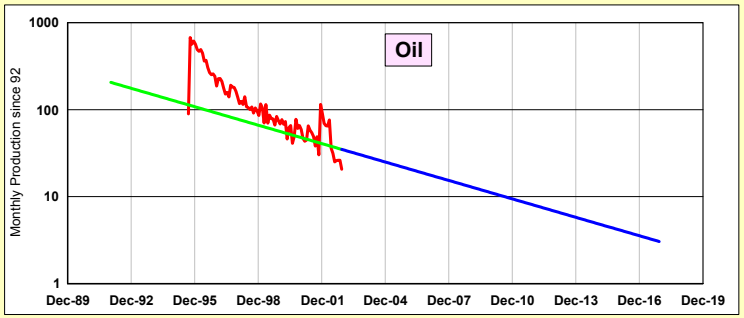
| Prod Year | Year | Oil *m3* | Gas *e3m3* | H2O *m3* | Cum Oil | Cum Gas | Cum Wtr | GOR |
|---|---|---|---|---|---|---|---|---|
| 0 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1984 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1985 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1986 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1988 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1989 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1991 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1992 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1993 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 0 | 1994 | 0 | 0 | 0 | 0 | 0 | 0 | ERR |
| 1 | 1995 | 1,950 | 132 | 1,062 | 1,950 | 132 | 1,062 | 68 |
| 2 | 1996 | 4,526 | 548 | 3,628 | 6,476 | 680 | 4,690 | 121 |
| 3 | 1997 | 2,201 | 366 | 2,871 | 8,677 | 1,046 | 7,561 | 166 |
| 4 | 1998 | 1,353 | 256 | 1,763 | 10,030 | 1,302 | 9,324 | 189 |
| 5 | 1999 | 1,032 | 242 | 1,425 | 11,062 | 1,544 | 10,749 | 234 |
| 6 | 2000 | 755 | 169 | 1,051 | 11,817 | 1,713 | 11,800 | 224 |
| 7 | 2001 | 654 | 0 | 1,134 | 12,471 | 1,713 | 12,934 | 0 |
| 8 | 2002 | 559 | 0 | 907 | 13,030 | 1,713 | 13,842 | 0 |
| 9 | 2003 | 385 | 0 | 625 | 13,415 | 1,713 | 14,467 | 0 |
| 10 | 2004 | 327 | 0 | 531 | 13,742 | 1,713 | 14,998 | 0 |
| 11 | 2005 | 278 | 0 | 452 | 14,020 | 1,713 | 15,450 | 0 |
| 12 | 2006 | 236 | 0 | 384 | 14,257 | 1,713 | 15,834 | 0 |
| 13 | 2007 | 201 | 0 | 326 | 14,458 | 1,713 | 16,160 | 0 |
| 14 | 2008 | 171 | 0 | 277 | 14,628 | 1,713 | 16,437 | 0 |
| 15 | 2009 | 145 | 0 | 236 | 14,774 | 1,713 | 16,673 | 0 |
| 16 | 2010 | 123 | 0 | 200 | 14,897 | 1,713 | 16,874 | 0 |
| 17 | 2011 | 105 | 0 | 170 | 15,002 | 1,713 | 17,044 | 0 |
| 18 | 2012 | 89 | 0 | 145 | 15,091 | 1,713 | 17,189 | 0 |
| 19 | 2013 | 76 | 0 | 123 | 15,167 | 1,713 | 17,312 | 0 |
| 20 | 2014 | 64 | 0 | 105 | 15,231 | 1,713 | 17,416 | 0 |
| 21 | 2015 | 55 | 0 | 89 | 15,286 | 1,713 | 17,505 | 0 |
| 22 | 2016 | 47 | 0 | 76 | 15,333 | 1,713 | 17,581 | 0 |
| 23 | 2017 | 40 | 0 | 64 | 15,372 | 1,713 | 17,645 | 0 |

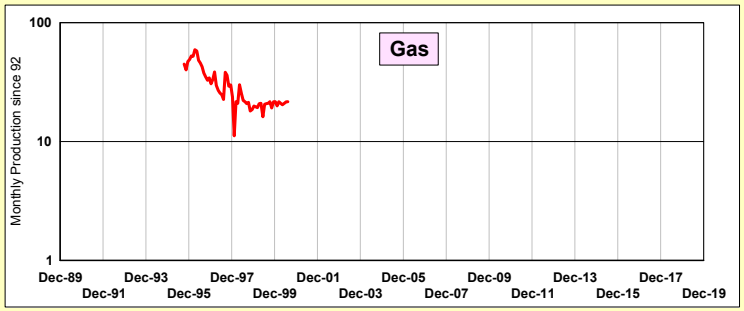
*Production Data Source: MNR Annuals 1983 to 1991. MNR Monthly's 1992 to 2002. Forecast 2003+*

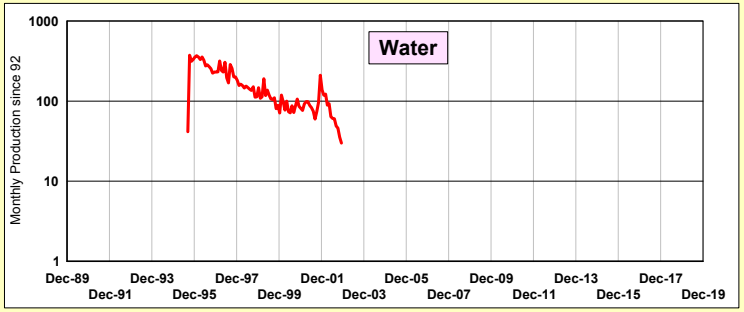
## Monthly Production vs Month + Forecast
*(since 1992)*

**Basis--->** **Oil**

| GAS | | | OIL | | |
|---|---|---|---|---|---|
| GOR | 0 | m3/m3 | | | |
| Start: | | e3m3 per month | Start: | 35 | m3/mo. |
| Decline Rate: | 15% | per year | Decline Rate: | 15% | per year |
| Decline Factor: | **0.0135** | per month | Decline Factor: | **0.0135** | per month |



# APPENDIX D
# POOL MAPS AND GEOLOGICAL CROSS-SECTIONS

| | n | W-statistic | p-value | Skewness | Kurtosis |
|---|---|---|---|---|---|
| Recoverable Gas Reserves by Well (All Data) | 197 | 0.9697 | 0.0003 | -0.7145 | 0.9154 |
| Recoverable Gas Reserves by Well (Truncated Data) | 187 | 0.9870 | 0.0840 | -0.0817 | -0.6874 |
| Recoverable Oil Reserves by Well (All Data) | 224 | 0.8595 | <0.0001 | -1.5117 | 2.1923 |
| Recoverable Oil Reserves by Well (Truncated Data) | 195 | 0.9747 | 0.0013 | -0.3727 | -0.5840 |

*Table 1. Statistical tests of lognormality for recoverable reserves by well (n=number of wells). Gas reserve data truncated to values between 100 and 25,000 $10^3 m^3$. Oil reserve data truncated to values above 1,000 $m^3$.*

| | n | W-statistic | p-value | Skewness | Kurtosis |
|---|---|---|---|---|---|
| Recoverable Gas Reserves by Pool (All Data) | 30 | 0.9784 | 0.8254 | -0.4774 | 0.3640 |
| Recoverable Gas Reserves by Pool (Truncated Data) | 28 | 0.9788 | 0.8481 | -0.0107 | -0.5828 |
| Recoverable Oil Reserves by Pool (All Data) | 44 | 0.9675 | 0.2463 | -0.2103 | -0.8327 |
| Recoverable Oil Reserves by Pool (Truncated Data) | 32 | 0.9560 | 0.2135 | 0.2929 | -0.8381 |

*Table 2. Statistical tests of lognormality for recoverable reserves by pool (n=number of pools). Recoverable gas reserve data truncated to values above 300 $10^3 m^3$. Recoverable oil reserve data truncated to values above 400 $m^3$.*

| | Mean | $P_{10}$ | $P_{50}$ | $P_{90}$ |
|---|---|---|---|---|
| Recoverable Gas Reserves by Well ($10^3m^3$) | 1,746 | 303 | 1,746 | 9,510 |
| Recoverable Oil Reserves by Well ($m^3$) | 11,267 | 4,134 | 11,267 | 40,654 |
| Recoverable Gas Reserves by Pool ($10^3m^3$) | 6,264 | 274 | 6,264 | 143,259 |
| Recoverable Oil Reserves by Pool ($m^3$) | 16,006 | 821 | 16,006 | 311,881 |

*Table 3. Statistical summary of recoverable reserves by well and pool.*

| TPDM CLASS BOUNDARIES | | |
|---|---|---|
| | Recoverable Reserves<br>natural gas - bcf oil - MMbbls | |
| **Class** | **Start** | **End** |
| -20 | 0.0000000075 | 0.0000000149 |
| -19 | 0.0000000149 | 0.0000000298 |
| -18 | 0.0000000298 | 0.0000000596 |
| -17 | 0.0000000596 | 0.0000001192 |
| -16 | 0.0000001192 | 0.0000002384 |
| -15 | 0.0000002384 | 0.0000004768 |
| -14 | 0.0000004768 | 0.0000009537 |
| -13 | 0.0000009537 | 0.0000019073 |
| -12 | 0.0000019073 | 0.0000038147 |
| -11 | 0.0000038147 | 0.0000076294 |
| -10 | 0.0000076294 | 0.0000152588 |
| -9 | 0.0000152588 | 0.0000305176 |
| -8 | 0.0000305176 | 0.0000610352 |
| -7 | 0.0000610352 | 0.0001220703 |
| -6 | 0.0001220703 | 0.0002441406 |
| -5 | 0.0002441406 | 0.0004882813 |
| -4 | 0.0004882813 | 0.0009765625 |
| -3 | 0.0009765625 | 0.001953125 |
| -2 | 0.001953125 | 0.00390625 |
| -1 | 0.00390625 | 0.0078125 |
| 0 | 0.0078125 | 0.015625 |
| 1 | 0.015625 | 0.03125 |
| 2 | 0.03125 | 0.0625 |
| 3 | 0.0625 | 0.125 |
| 4 | 0.125 | 0.25 |
| 5 | 0.25 | 0.5 |
| 6 | 0.5 | 1 |
| 7 | 1 | 2 |
| 8 | 2 | 4 |
| 9 | 4 | 8 |
| 10 | 8 | 16 |
| 11 | 16 | 32 |
| 12 | 32 | 64 |
| 13 | 64 | 128 |
| 14 | 128 | 256 |
| 15 | 256 | 512 |
| 16 | 512 | 1,024 |
| 17 | 1,024 | 2,048 |
| 18 | 2,048 | 4,096 |
| 19 | 4,096 | 8,192 |
| 20 | 8,192 | 16,384 |

*Table 4. TDPM class boundaries*

| Pool Name | Discovery Year | Class | Rec Gas Res (bcf) | Rec Gas Res ($10^3m^3$) |
|---|---|---|---|---|
| Dover | 1917 | 10 | 13.5918 | 385,038 |
| Dover 7-5-V E | 1983 | 10 | 9.7257 | 275,515 |
| Goldsmith-Lakeshore | 1985 | 9 | 4.0051 | 113,460 |
| Wigle-Olinda | 1990 | 8 | 2.3331 | 66,094 |
| Renwick-Fargo | 1987 | 7 | 1.8931 | 53,630 |
| Rochester 1-17-II EBR | 1992 | 7 | 1.8410 | 52,152 |
| Arthur | 1968 | 7 | 1.2834 | 36,356 |
| Blenheim 8-13-X | 1997 | 7 | 1.1011 | 31,192 |
| Blandford 7-1-XIII | 1994 | 6 | 0.7414 | 21,003 |
| Hillman | 1983 | 6 | 0.7222 | 20,459 |
| Rochester 7-17-IV EBR | 1994 | 6 | 0.6574 | 18,623 |
| Acton | 1954 | 6 | 0.6142 | 17,400 |
| Mersea 4-240-STR | 1993 | 6 | 0.5523 | 15,647 |
| Sombra 3-26-VI | 1985 | 5 | 0.4838 | 13,706 |
| Sombra 7-6-VI | 1991 | 5 | 0.3777 | 10,699 |
| Raleigh 2-14-XIV | 1988 | 5 | 0.2754 | 7,801 |
| Tilbury North 1-11-IV | 1993 | 4 | 0.2112 | 5,984 |
| Rochester 4-8-I EBR | 1994 | 4 | 0.1400 | 3,966 |
| Mersea 1-16-I | 1998 | 4 | 0.1302 | 3,687 |
| Dover 7-10-VI E | 1978 | 3 | 0.1002 | 2,838 |
| Hornby | 1959 | 3 | 0.0777 | 2,200 |
| Blenheim 3-10-VI | 1999 | 2 | 0.0429 | 1,214 |
| Rochester 8-8-I EBR | 1994 | 2 | 0.0349 | 988 |
| Aldborough 7-18-IV | 1974 | 1 | 0.0254 | 719 |
| Hepworth | 1900 | 1 | 0.0250 | 708 |
| Mersea 5-20-A | 2000 | 1 | 0.0201 | 569 |
| Gosfield South 4-4-III | 1995 | 0 | 0.0154 | 437 |
| Mersea 4-14-I | 1990 | 0 | 0.0131 | 370 |
| Gosfield South | 1961 | -2 | 0.0038 | 107 |
| Picton | 1937 | -3 | 0.0014 | 39 |
| **Total** | | | **41.0** | **1,162,562** |

*Table 5. Class assignment and recoverable gas reserves used in TDPM analysis*

| Pool Name | Discovery Year | Class | Rec Oil Res (MMbbls) | Rec Oil Res ($m^3$) |
|---|---|---|---|---|
| Goldsmith-Lakeshore | 1985 | 9 | 6.11281 | 971,860.0 |
| Renwick-Fargo | 1987 | 8 | 3.85619 | 613,086.0 |
| Wigle-Olinda | 1990 | 8 | 3.41250 | 542,545.0 |
| Hillman | 1983 | 8 | 2.48606 | 395,252.0 |
| Rochester 1-17-II EBR | 1992 | 7 | 1.68006 | 267,109.0 |
| Dover 7-5-V E | 1983 | 7 | 1.31783 | 209,518.0 |
| Colchester | 1959 | 6 | 0.81863 | 130,151.0 |
| Mersea 4-240-STR | 1993 | 6 | 0.72015 | 114,495.0 |
| Rochester 7-17-IV EBR | 1994 | 6 | 0.71220 | 113,230.0 |
| Dover | 1917 | 5 | 0.27562 | 43,820.2 |
| Gosfield South | 1961 | 4 | 0.18658 | 29,664.0 |
| Malden | 1961 | 4 | 0.17181 | 27,316.0 |
| Mersea 1-16-I | 1998 | 3 | 0.09996 | 15,893.0 |
| Rochester 4-8-I EBR | 1994 | 3 | 0.09474 | 15,062.0 |
| Gosfield South 2-24-V | 1997 | 3 | 0.08561 | 13,611.0 |
| Mersea 4-14-I | 1990 | 3 | 0.07736 | 12,299.0 |
| Mersea 5-20-A | 2000 | 3 | 0.07695 | 12,234.1 |
| Rochester 8-8-I EBR | 1994 | 2 | 0.05238 | 8,327.0 |
| Rochester 1-20-V EBR | 1984 | 2 | 0.04475 | 7,114.0 |
| Colchester South 5-15-V | 1989 | 2 | 0.04144 | 6,588.0 |
| Gosfield South 4-4-III | 1995 | 2 | 0.03930 | 6,248.0 |
| Tilbury North 1-11-IV | 1993 | 1 | 0.02990 | 4,754.0 |
| Gosfield South 4-258-STR | 1991 | 1 | 0.02902 | 4,614.0 |
| Mersea 6-20-XI | 1991 | 1 | 0.02634 | 4,187.0 |
| Gosfield South 3-K-III | 1997 | 1 | 0.02411 | 3,833.0 |
| Malden 3-41-IV | 1977 | 1 | 0.02360 | 3,752.5 |
| Aldborough 4-A-VIII | 1980 | 1 | 0.00873 | 1,387.6 |
| Mersea 5-10-IX | 1991 | 0 | 0.00845 | 1,344.0 |
| Mersea 8-23-IX | 1998 | 0 | 0.00675 | 1,072.8 |
| Ruscom River | 1970 | -1 | 0.00505 | 803.0 |
| Stevenson | 1957 | -1 | 0.00331 | 525.6 |
| Tilbury West 3-2-X | 2001 | -2 | 0.00308 | 489.0 |
| Malden 25 | 1960 | -2 | 0.00092 | 145.5 |
| Tilbury East 1-24-IX | 1987 | -4 | 0.00090 | 143.4 |
| Anderdon 8-2-IV | 1995 | -4 | 0.00066 | 104.5 |
| Colchester South 8-5-III | 1995 | -4 | 0.00063 | 100.3 |
| Gosfield South 5-10-V | 1992 | -4 | 0.00039 | 62.7 |
| Hornby | 1959 | -6 | 0.00021 | 34.0 |
| Tilbury West 2-4-IX | 2000 | -6 | 0.00019 | 30.5 |
| Gosfield South 8-7-V | 1987 | -6 | 0.00015 | 24.2 |
| Manitoulin Island | 1860 | -7 | 0.00011 | 17.7 |
| Maidstone 7-17-V | 1987 | -7 | 0.00010 | 16.0 |
| Dover 1-11-V E | 1984 | -7 | 0.00006 | 10.1 |
| Gosfield North 5-13-IX | 1988 | -9 | 0.00002 | 2.6 |
| **Total** | | | **22.5** | **3,582,876.3** |

*Table 6. Class assignment and recoverable oil reserves used in TDPM analysis*

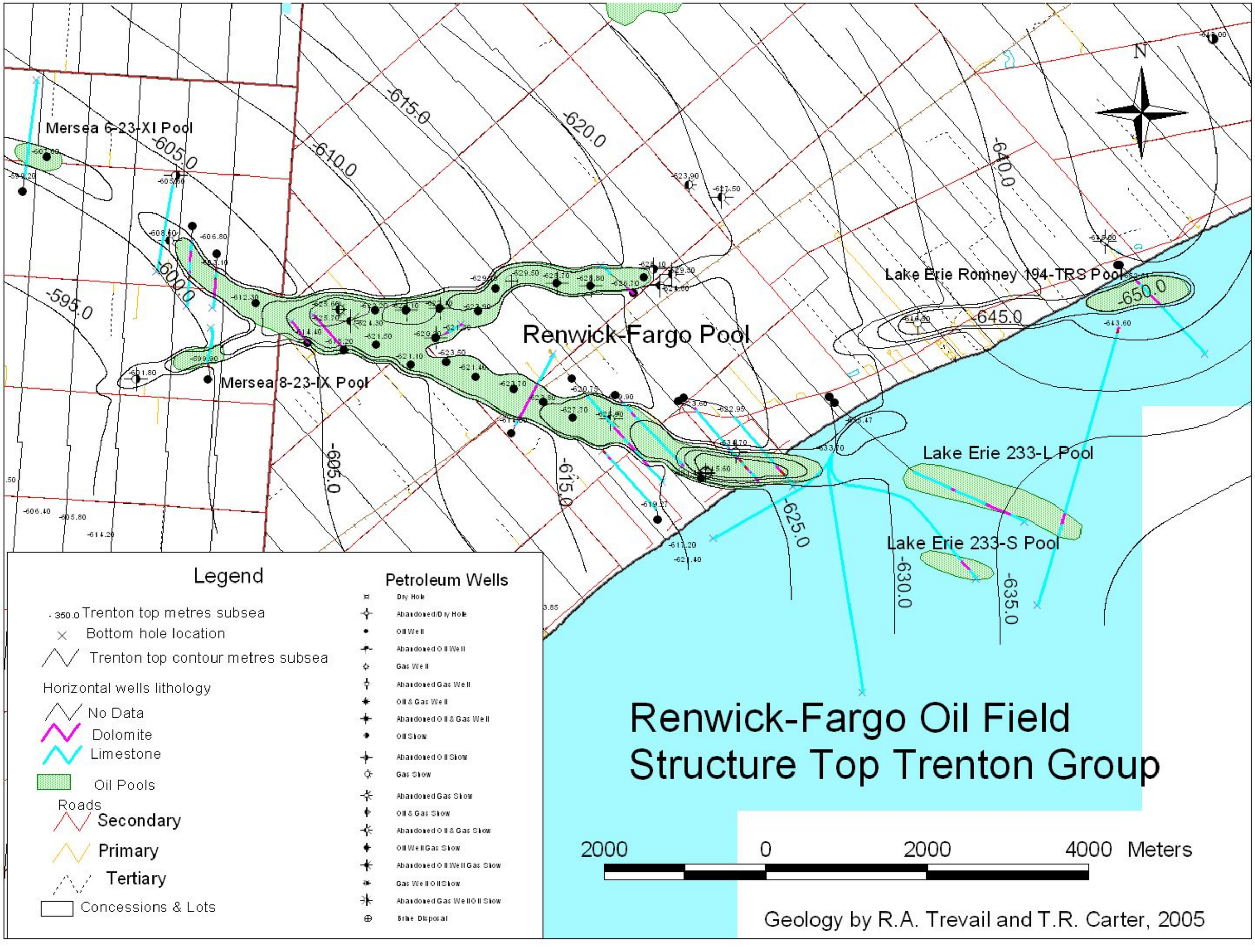
| | Mean | $P_{10}$ | $P_{90}$ | % Undiscovered |
|---|---|---|---|---|
| Recoverable Gas Reserves ($10^6 m^3$) | 6,799 | 5,722 | 7,904 | 85 |
| Recoverable Gas Reserves (bcf) | 240 | 202 | 279 | 85 |
| Recoverable Oil Reserves ($m^3$) | 2,733,296 | 2,192,125 | 3,274,468 | 43 |
| Recoverable Oil Reserves (MMbbls) | 17.2 | 13.8 | 20.6 | 43 |

*Table 7. Summary of recoverable gas and oil reserves, Ordovician carbonate play in southwestern Ontario.*

| | Recoverable Gas Reserves ($10^6 m^3$) | | | | Recoverable Oil Reserves ($m^3$) | | | |
|---|---|---|---|---|---|---|---|---|
| | **Total** | **Undiscovered** | **Discovered*** | **Actual Discovered**** | **Total** | **Undiscovered** | **Discovered*** | **Actual Discovered**** |
| This Study | 7,960 | 6,799 | 1,161 | 1,163 | 6,333,357 | 2,750,481 | 3,582,876 | 3,582,876 |
| Hutt et al, 1973 | 3,404 | 3,006 | N/A | 398 | 5,303,237 | 5,151,189 | N/A | 152,048 |
| Bailey & Cochrane, 1984 | 9,703 | 9,256 | N/A | 447 | 5,439,203 | 5,225,630 | N/A | 213,573 |
| Osadetz et al, 1996 | 1,241 | N/A | N/A | N/A | 8,555,381 | N/A | N/A | N/A |

*Table 8. Estimated recoverable reserves from this study compared with previously published reports (Osadetz et al values computed by applying a recovery factor, 0.95 for natural gas and 0.163 for oil, to reported in-place reserves. Gas reserve estimate very conservative due to method of calculation).*

** TDPM Classes 0 – 20*
*** Total of all discovered pools, see Exhibit 1 for actual values*


Mersea 6-23-XI Pool
Mersea 8-23-IX Pool
Renwick-Fargo Pool
Lake Erie Romney 194-TRS Pool
Lake Erie 233-L Pool
Lake Erie 233-S Pool
-595.0
-600.0
-605.0
-610.0
-615.0
-620.0
-625.0
-630.0
-635.0
-640.0
-645.0
-650.0
N
Legend
- 350.0 Trenton top metres subsea
Bottom hole location
Trenton top contour metres subsea
Horizontal wells lithology
No Data
Dolomite
Limestone
Oil Pools
Roads
Secondary
Primary
Tertiary
Concessions & Lots
Petroleum Wells
Dry Hole
Abandoned/Dry Hole
Oil Well
Abandoned Oil Well
Gas Well
Abandoned Gas Well
Oil & Gas Well
Abandoned Oil & Gas Well
Oil Show
Abandoned Oil Show
Gas Show
Abandoned Gas Show
Oil & Gas Show
Abandoned Oil & Gas Show
Oil Well Gas Show
Abandoned Oil Well Gas Show
Gas Well Oil Show
Abandoned Gas Well Oil Show
Brine Disposal
Renwick-Fargo Oil Field
Structure Top Trenton Group
2000 0 2000 4000 Meters
Geology by R.A. Trevail and T.R. Carter, 2005

# Goldsmith-Lakeshore Oil Field
# Structure Top Trenton Group

## Legend

- 350.0 Trenton top metres subsea
- Bottom hole location
- Trenton top contour metres subsea

Horizontal wells lithology
- No Data
- Dolomite
- Limestone
- Oil Pools

Roads
- Secondary
- Primary
- Tertiary
- Concessions & Lots

## Petroleum Wells
- Dry Hole
- Abandoned/Dry Hole
- Oil Well
- Abandoned Oil Well
- Gas Well
- Abandoned Gas Well
- Oil & Gas Well
- Abandoned Oil & Gas Well
- Oil Show
- Abandoned Oil Show
- Gas Show
- Abandoned Gas Show
- Oil & Gas Show
- Abandoned Oil & Gas Show
- Oil Well Gas Show
- Abandoned Oil Well Gas Show
- Gas Well Oil Show
- Abandoned Gas Well Oil Show
- Brine Disposal

2000 0 2000 4000 Meters

Geology by R.A. Trevail and
T.R. Carter, 2005

# Innerkip Gas Field
# Structure Top Trenton Group

Blandford 7-1-XIII Pool

Blenheim 8-13-X Pool

Blenheim 3-10-VI Pool

-295
-300
-315
-310
-320
-320

N

## Legend

- 350.0 Trenton top metres subsea
- Bottom hole location
- Trenton top contour metres subsea

Horizontal wells lithology
- No Data
- Dolomite
- Limestone

Oil Pools

Roads
- Secondary
- Primary
- Tertiary

Concessions & Lots

## Petroleum Wells

- Dry Hole
- Abandoned/Dry Hole
- Oil Well
- Abandoned Oil Well
- Gas Well
- Abandoned Gas Well
- Oil & Gas Well
- Abandoned Oil & Gas Well
- Oil Show
- Abandoned Oil Show
- Gas Show
- Abandoned Gas Show
- Oil & Gas Show
- Abandoned Oil & Gas Show
- Oil Well Gas Show
- Abandoned Oil Well Gas Show
- Gas Well Oil Show
- Abandoned Gas Well Oil Show
- Brine Disposal

2000 0 2000 4000 Meters

Geology by T.R. Carter, 2005

Mersea 4-240-STR Pool

Mersea 2-12-I Pool

Mersea 4-14-I Pool

Mersea 1-16-I Pool

Mersea 5-20-A Pool

Hillman Pool

1000 0 1000 2000

# Hillman Oil Field
# Structure Top Trenton Group

## Legend

- Dry Hole
- Abandoned/Dry Hole
- Oil Well
- Abandoned Oil Well
- Gas Well
- Abandoned Gas Well
- Oil & Gas Well
- Abandoned Oil & Gas Well
- Oil Show
- Abandoned Oil Show
- Gas Show
- Abandoned Gas Show
- Oil & Gas Show
- Abandoned Oil & Gas Show
- Oil Well Gas Show
- Abandoned Oil Well Gas Show
- Gas Well Oil Show
- Abandoned Gas Well Oil Show
- Brine Disposal

-350.0 Trenton top metres subsea

Bottom hole location

Trenton top contour metres subsea

Horizontal wells lithology

- No Data
- Dolomite
- Limestone

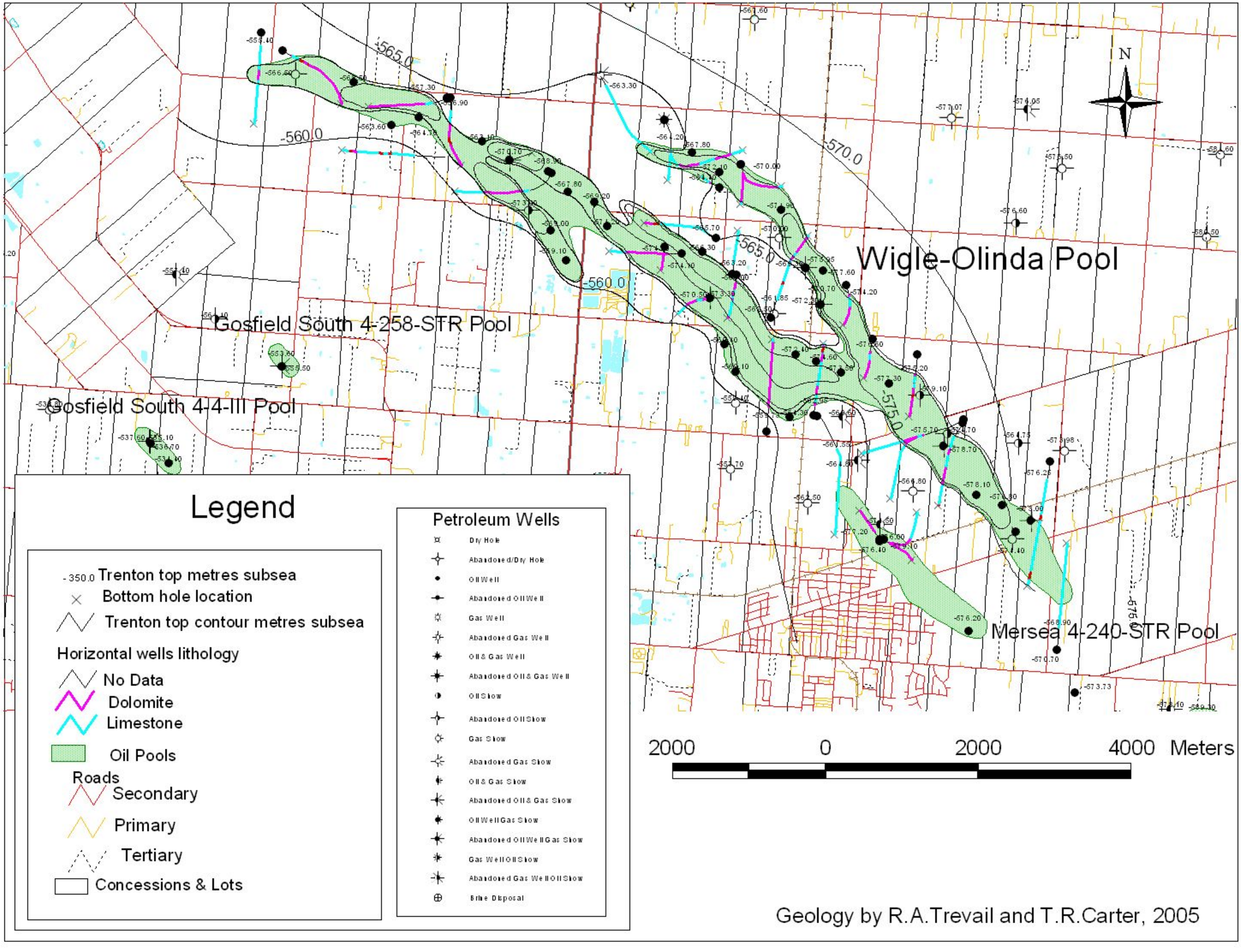
Oil Pools

Roads

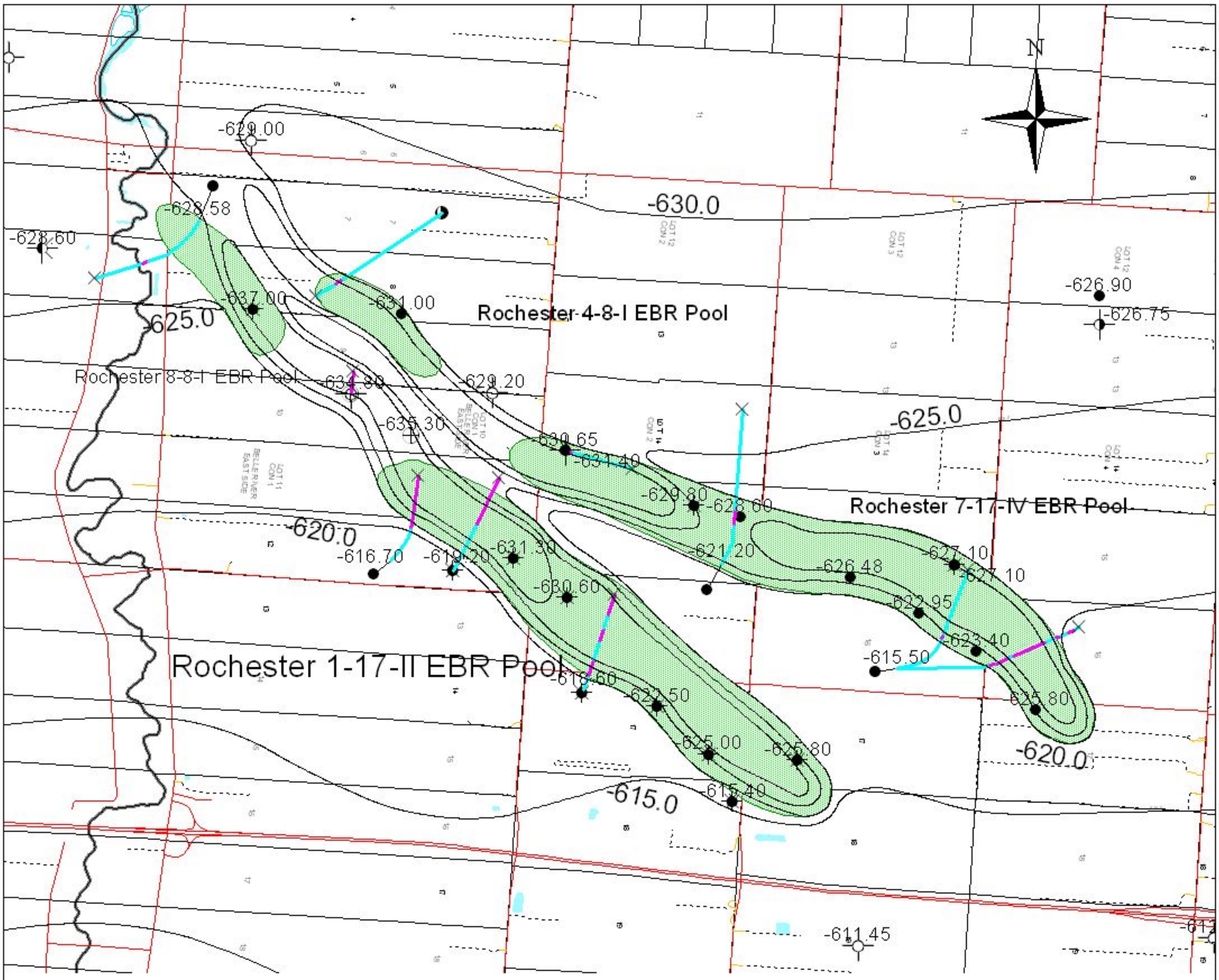
- **Secondary**
- **Primary**
- **Tertiary**

Concessions & Lots

Geology by R.A. Trevail
and T.R.Carter, 2005


Wigle-Olinda Pool
Gosfield South 4-258-STR Pool
Gosfield South 4-4-III Pool
Mersea 4-240-STR Pool
-560.0
-565.0
-570.0
-575.0
N
Legend
-350.0 Trenton top metres subsea
Bottom hole location
Trenton top contour metres subsea
Horizontal wells lithology
No Data
Dolomite
Limestone
Oil Pools
Roads
Secondary
Primary
Tertiary
Concessions & Lots
Petroleum Wells
Dry Hole
Abandoned/Dry Hole
Oil Well
Abandoned Oil Well
Gas Well
Abandoned Gas Well
Oil & Gas Well
Abandoned Oil & Gas Well
Oil Show
Abandoned Oil Show
Gas Show
Abandoned Gas Show
Oil & Gas Show
Abandoned Oil & Gas Show
Oil Well Gas Show
Abandoned Oil Well Gas Show
Gas Well Oil Show
Abandoned Gas Well Oil Show
Brine Disposal
2000 0 2000 4000 Meters
Geology by R.A.Trevail and T.R.Carter, 2005

# Rochester Oil Field
# Structure Top Trenton Group




## Legend

- 350.0 Trenton top metres subsea
- Bottom hole location
- Trenton top contour metres subsea

Horizontal wells lithology

- No Data
- Dolomite
- Limestone
- Oil Pools

Roads

- Secondary
- Primary
- Tertiary
- Concessions & Lots

### Petroleum Wells

- Dry Hole
- Abandoned/Dry Hole
- Oil Well
- Abandoned Oil Well
- Gas Well
- Abandoned Gas Well
- Oil & Gas Well
- Abandoned Oil & Gas Well
- Oil Show
- Abandoned Oil Show
- Gas Show
- Abandoned Gas Show
- Oil & Gas Show
- Abandoned Oil & Gas Show
- Oil Well Gas Show
- Abandoned Oil Well Gas Show
- Gas Well Oil Show
- Abandoned Gas Well Oil Show
- Brine Disposal

1000 0 1000 m.

Geology by R.A. Trevail
and T.R. Carter, 2005

Dover 7-5-V E Oil and Gas Pool

Dover Gas Pool

Oil in Black River Group and gas in Trenton Group in this pool

## Legend

- 350.0 Trenton top metres subsea
- Bottom hole location
- Trenton top contour metres subsea

Horizontal wells lithology
- No Data
- Dolomite
- Limestone

Oil Pools

Roads
- Secondary
- Primary
- Tertiary

Concessions & Lots

### Petroleum Wells

- Dry Hole
- Abandoned/Dry Hole
- Oil Well
- Abandoned Oil Well
- Gas Well
- Abandoned Gas Well
- Oil & Gas Well
- Abandoned Oil & Gas Well
- Oil Show
- Abandoned Oil Show
- Gas Show
- Abandoned Gas Show
- Oil & Gas Show
- Abandoned Oil & Gas Show
- Oil Well Gas Show
- Abandoned Oil Well Gas Show
- Gas Well Oil Show
- Abandoned Gas Well Oil Show
- Brine Disposal

# Dover Oil and Gas Field
# Structure Top Trenton Group

1000 0 1000 2000 Meters

Geology by E. Welychka, 2005

A WEST

B EAST

SUBSEA DEPTH METRES

-600
-625
-650
-675
-700
-725

## CONSUMERS et al.34161
PERMIT 7272
ROMNEY 1-7-II
280.0mS:160.0mW
R.F.E.: 189.2m
YEAR DRILLED: 1988

CNL LOG — DOLOMITE — DLL MSFL LOG

DST#1 — DST#2 — DST#3 — DST#4

F.T.D.: 923.7m

OIL SHOW @805.0m
GAS SHOW @810.0-852.0m
854.5-852.0m

DST #1 854.0-902.9m, GTS TSTM
DST #2 818.0-852.0m, GTS TSTM

PERFORATIONS: 869.5-873.0m
840.5-847.0m
820.5-824.0m
819.0-825.0m

114mm(4 1/2")DIA. CASING CEMENTED @920.7m
60mm(2 3/8")DIA. CASING HANGING @846.16m

TRENTON GROUP: THICKNESS - 106.0m
DOLOMITIZATION - 100%

92-042-101 A-11

## CONSUMERS et al. 34011
PERMIT 6944
ROMNEY 2-8-II
563.9mS:106.7mE
R.F.E.: 187.3m
YEAR DRILLED: 1986

CNL LOG — DOLOMITE — DLL MSFL LOG

DST#1 — DST#2 — DST#3

F.T.D.: 1,100.0m

OIL SHOW @833.0-854.0m
GAS SHOW @833.0-854.0m

DST #1 817.9-837.0m, GTS, 9hr, 3.0m oil, 48.0m brine
DST #2 850.0-859.0m, No GTS, Rec. 84.0m brine, 609.0m oil cut brine

PERFORATIONS: 853.5-854.7m with 20 shots
114mm(4 1/2")DIA. CASING CEMENTED @1382.6m

TRENTON GROUP: THICKNESS - 101.5m
DOLOMITIZATION - 100%

## JUDD ROMNEY 4-8-II
PERMIT 7429
ROMNEY 4-8-II
563.9mS:195.1mW
R.F.E.: 186.5m
YEAR DRILLED: 1989

CNL LOG — LIMESTONE

F.T.D.: 836.2m

OIL SHOW @805.3-835.2m

No DST

No PERFORATIONS

114mm(4 1/2")DIA. CASING CEMENTED @806.5m

TRENTON GROUP: THICKNESS OF DRILLED SECTION - 29.4m
DOLOMITIZATION OF DRILLED SECTION - 100%

## CONSUMERS et al. 34160
PERMIT 7071
ROMNEY 5-8-II
722.7mS:150.0mW
R.F.E.: 187.0m
YEAR DRILLED: 1986

CNL LOG — DOLOMITE — DLL MSFL LOG

F.T.D.: 980.0m

OIL SHOW @ 824.0m, 829.0m, 865.0m, 948.0m, 956.0m

GAS SHOW @829.0m

No DST

PERFORATIONS: 852.0-857.0m, 837.0-845.0m
819.5-821.5m, 824.0-834.0m

114mm(4 1/2")DIA. CASING CEMENTED @951.6m

TRENTON GROUP: THICKNESS - 99.0m
DOLOMITIZATION - 100%

## FARMERS #1
PERMIT 7371
ROMNEY 7-9-II
311.5mN:132.2mE
R.F.E.: 185.5m
YEAR DRILLED: 1988

CNL LOG — DOLOMITE

F.T.D.: 843.7m

OIL SHOW @822.3m
823.0m
839.0m
GAS SHOW @822.3

No DST

No PERFORATIONS

114mm(4 1/2")DIA. CASING CEMENTED @810.0m

73mm(2 7/8")DIA. CASING HANGING @836.6m

TRENTON GROUP: THICKNESS OF DRILLED SECTION - 35.7m
DOLOMITIZATION OF DRILLED SECTION - 100%

## FARMERS #2
PERMIT 7524
ROMNEY 8-9-II
118.1mN:126.8mW
R.F.E.: 187.0m
YEAR DRILLED: 1989

CNL LOG — DOLOMITE

F.T.D.: 824.8m

OIL SHOW @818.0-819.0m
823.0m
823.0-824.0m
GAS SHOW @818.0-819.0m

No DST

No PERFORATIONS

178mm(7")DIA. CASING CEMENTED @802.3m

TRENTON GROUP: THICKNESS OF DRILLED SECTION - 23.3m
DOLOMITIZATION OF DRILLED SECTION - 100%

## CONSUMERS et al. 34340
PERMIT 7203
ROMNEY 7-10-II
107.2mN:120.0mE
R.F.E.: 191.0m
YEAR DRILLED: 1987

CNL LOG — DOLOMITE — DLL MSFL LOG

F.T.D.: 1,100.0m

OIL SHOW @834.0m
GAS SHOW @804.0m

No DST

PERFORATIONS: 823.0-829.0m, 832.0-834.0m
836.5-838.0m, 840.5-844.0m

114mm(4 1/2")DIA. CASING CEMENTED @1,103.6m

60mm(2 3/8")DIA. CASING HANGING @843.9m

TRENTON GROUP: THICKNESS - 99.0m
DOLOMITIZATION - 68%

## RAM et al. #1
PERMIT 7222
ROMNEY 2-11-I
190.0mS:110.0mE
R.F.E.: 184.6m
YEAR DRILLED: 1988

CNL LOG — DOLOMITE — DLL MSFL LOG

DST#1

F.T.D.: 1,050.0m

OIL SHOW @900.0-904.0m

DST #1 890.0-912.0m, No GTS, Rec. 5.0m oil flecked drilling mud

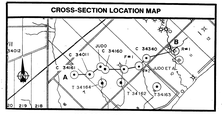
No PERFORATIONS

TRENTON GROUP: THICKNESS - 106.0m
DOLOMITIZATION - 3%

COBOURG
SHERMAN FALL
KIRKFIELD
COBOCONK
GULL RIVER

TRENTON GROUP
BLACK RIVER GROUP

### CROSS-SECTION LOCATION MAP




MAP SCALE 1:25,000

### LEGEND

F.T.D. FINAL TOTAL DEPTH
R.F.E. RIG FLOOR ELEVATION
DST DRILLSTEM TEST
GTS GAS TO SURFACE
OIL SHOW
GAS SHOW
LIMESTONE
DOLOMITE
SHALE
PERFORATIONS

## EAST-WEST GEOLOGICAL STRUCTURAL CROSS-SECTION A-B THROUGH TRENTON GROUP IN WHEATLEY EAST AND YELLOW CREEK FIELDS

TOWNSHIP: ROMNEY COUNTY: KENT

BY: R.D.COCHRANE/M.OBERMAJER DATE: JULY 1993

REVISED BY: DATE:

CARNLING PETROLEUM SERVICES

NORTHWEST

SOUTHEAST

SUBSEA DEPTH (metres)

-600
-625
-650
-675
-700
-725
-750
-775
-800

FORMATION

COBOURG

SHERMAN FALL

KIRKFIELD

COBOCONK

960m

420m

780m

420m

600m

2,730m

## PPC ROCHESTER #5
PERMIT 7960
ROCHESTER 4-10-I EBR
108.4m N, 748.3m W
K.B.: 183.3m, F.T.D.: 965m
YEAR DRILLED: 1993
STATUS: OIL PRODUCER

CNL-LTD LOG

818.6m(-635.3)

32.4m

5m

19.7m

57.7m

933.4m(-750.1)

F.T.D.: 965m
OPEN HOLE: 819-965m
178mm(7") CASING CEMENTED AT 819m
D.S.T. #1: 925-965m
REC. 320m SLIGHTLY GASIFIED SALT WATER
NO SHOWS
TRENTON: THICKNESS=114.8m
%DOLOMITE=25.1%

## PPC ROCHESTER #8
PERMIT 7958
ROCHESTER 1-12-I EBR
211.6m N, 117.4m W
K.B.: 183.7m, F.T.D.: 875m
YEAR DRILLED: 1993
STATUS: OIL PRODUCER

CNL-LTD LOG

815m(-631.3)

31m

5m

24m+

F.T.D.: 875m
OPEN HOLE: 816.3-875m
178mm(7") CASING CEMENTED AT 816.3m
NO D.S.T.
NO SHOWS
TRENTON: THICKNESS=60m+
%DOLOMITE IN DRILLED SECTION=91.6%

## PPC ROCHESTER #2
PERMIT 7944
ROCHESTER 7-16-II EBR
153.2m S, 219.5m E
K.B.: 184.6m, F.T.D.: 881m
YEAR DRILLED: 1993
STATUS: OIL PRODUCER

CNL-LTD LOG

815.4m(-630.6)

32.6m

5.5m

19.5m+

CAVERNOUS POROSITY 856-881m

PERFORATIONS

F.T.D.: 881m
139mm(5 1/2") CASING CEMENTED AT 880m
PERFORATIONS: 859-861m
NO D.S.T.
SHOWS: OIL: 825-826m SHOW
880m TO SURFACE
TRENTON: THICKNESS=65.6m+
%DOLOMITE IN DRILLED SECTION: 83.9%

-706m SUBSEA
ESTIMATED OIL-WATER INTERFACE

## PPC ROCHESTER #3
PERMIT 7952
ROCHESTER 3-7-II EBR
182.0m S, 550.6m E
K.B.: 184.7m, F.T.D.: 1094m
YEAR DRILLED: 1992
STATUS: OIL PRODUCER

CNL-LTD LOG

807.2m(-622.6)

57.8m

5.5m

21.4m

55.4m

920.4m (-738.8)

F.T.D.: 1094m
139.7mm(5 1/2") CASING CEMENTED AT 1094m
PERFORATIONS: 840.0-841.5m
843.0-845.5m
850.0-851.5m
D.S.T. #1: 1005-1030m
REC. 1092m SLIGHTLY GASIFIED SALT WATER
D.S.T. #2: 918-932m
REC. 420m SLIGHTLY GASIFIED SALT WATER
SHOWS: OIL AND GAS 838-846m
849-851m
856-859m
864-867m
TRENTON: THICKNESS=113.2m
%DOLOMITE=84.7%
BLACK RIVER: THICKNESS=139.6m
%DOLOMITE=97.5%

## PPC ROCHESTER #1
PERMIT 7891
ROCHESTER 1-17-II EBR
156m N, 81m W
K.B.: 185.1m, F.T.D.: 892m
YEAR DRILLED: 1992
STATUS: OIL PRODUCER

CNL-LTD LOG

809.6m(-624.5)

30.9m

57.8m

19m

63.6m

20.7m

18.8m+

PERFORATIONS

F.T.D.:892m
139mm(5 1/2") CASING CEMENTED AT 892m
PERFORATIONS: 849-852m
NO D.S.T.
SHOWS: OIL AND GAS 837.6-839.8m
841.2-843m
844-847m
TRENTON: THICKNESS=82.6m+
%DOLOMITE IN DRILLED SECTION=94.9%
SHALE BED 843.3-848m
THICKNESS=4.7m

### PRODUCTION HISTORY
SEPTEMBER-DECEMBER 1992
OIL 637m³, 52.22m³/d, 328 B.O.P.D.
WATER 3399m³, 27.86m³/d, 175 B.W.P.D.
OIL CUT 65.21%

849-932m
BRECCIATED INTERVAL CAUSED BY COLLAPSE OF CAVERNOUS POROSITY

## PPC ROCHESTER #4
PERMIT 7942
ROCHESTER 8-17-II EBR
162.9m N, 225.6m E
K.B.: 186.2m, F.T.D.: 972m
YEAR DRILLED: 1993
STATUS: OIL PRODUCER

CNL-LTD LOG

812m(-625.8)

31m

5.5m

18.8m

55.6m

CAVERNOUS POROSITY 922.7-935m

F.T.D.:972m
139mm(5 1/2") CASING CEMENTED AT 974m
PERFORATIONS: 821-822m
836-837m
847-848m
852.5-853m
D.S.T. #1: 678-691m MISRUN
REC. 415m DRILLING FLUID
D.S.T. #2: 877-883m MISRUN
REC. 530m SALT WATER
SHOWS: OIL: 821.8-822.4m
TRENTON: THICKNESS=110.7m
%DOLOMITE=93.9%

## REVALLEE #2
PERMIT 6520
ROCHESTER 7-19-V EBR
451.1m N, 126.5m E
K.B.: 184m, F.T.D.: 1063m
YEAR DRILLED: 1994
STATUS: DRY HOLE ABANDONED

CNL-LTD LOG

706m(-519)

31.2m

3.8m

22.2m

55.4m

910.6m(-726.6)

922.7m(-738.8)

22.9m

16.1m

F.T.D.: 1063m
PLUGGED BACK TO SURFACE
CABLE TOOL HOLE
SALT WATER: 1060-1063m
TRENTON: THICKNESS=114.6m
%DOLOMITE=2.9%
BLACK RIVER: THICKNESS=147.4m
%DOLOMITE=0%

FORMATION

COBOURG

SHERMAN FALL

KIRKFIELD

COBOCONK

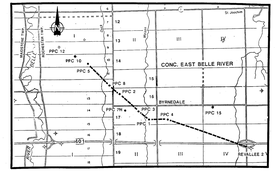
TRENTON GROUP

BLACK RIVER GROUP

REGIONAL WELL

PART 2 OF 2
WESTERN SEGMENT OFCROSS-SECTION
BYRNEDALE OILFIELD

CROSS-SECTION LOCATION MAP
SCALE 1:40,000




NOTE: ON APRIL 1, 1994, WELL INFORMATION ON WELLS PPC 7H, PPC 10 AND PPC 15 WAS STILL CONFIDENTIAL.

LEGEND

F.T.D. FINAL TOTAL DEPTH
D.S.T. DRILL STEM TEST
OIL SHOW
GAS SHOW
SALT WATER
PERFORATED INTERVAL
LIMESTONE
DOLOMITE
SHALE
OIL-WATER INTERFACE

GEOLOGICAL STRUCTURAL CROSS-SECTION THROUGH TRENTON GROUP AT BYRNEDALE OIL FIELD, ROCHESTER TOWNSHIP, ESSEX COUNTY

| | |
|---|---|
| TOWNSHIP: ROCHESTER | COUNTY: ESSEX |
| BY: R.O.C./E.C.H. | DATE: APRIL 1994 |

CAIRNLINS PETROLEUM SERVICES

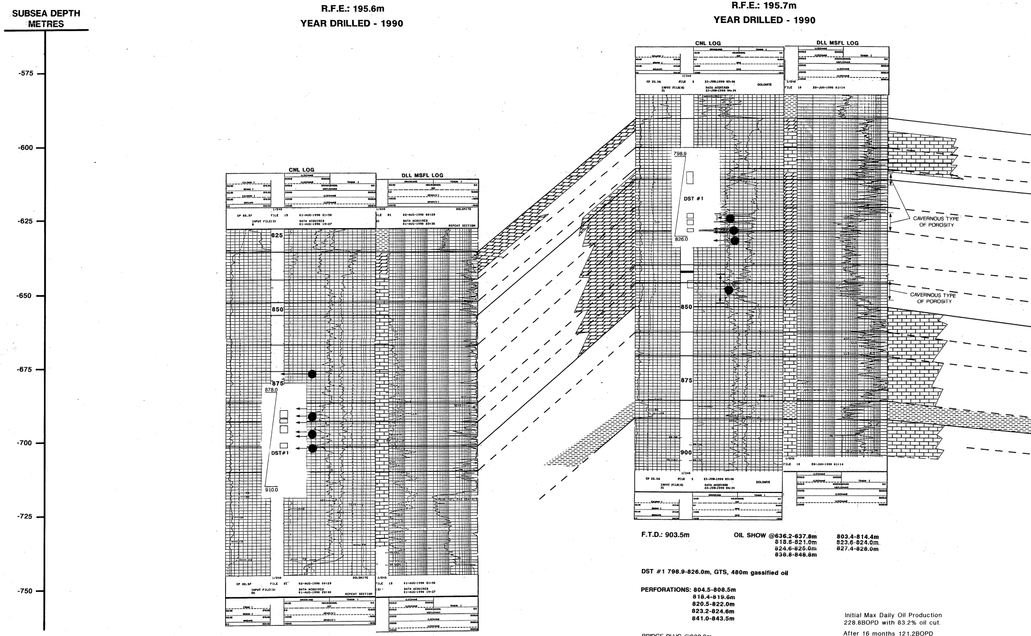
PART 1 OF 2

94-701-001

WEST

RAM BP #18
(DEVIATED HOLE)
PERMIT 7651
MERSEA 6-15-VIII
358.5mN:188.0mE
R.F.E.: 195.6m
YEAR DRILLED - 1990

RAM BP ET AL #12
PERMIT 7636
MERSEA 5-15-VIII
389.5mN:152.8mW
R.F.E.: 195.7m
YEAR DRILLED - 1990


SUBSEA DEPTH METRES
-575
-600
-625
-650
-675
-700
-725
-750
CNL LOG
DLL MSFL LOG
825
850
875
878.0
DST#1
910.0
DOLOMITE
REPEAT SECTION
CNL LOG
DLL MSFL LOG
798.9
DST #1
826.0
850
875
900
CAVERNOUS TYPE OF POROSITY
CAVERNOUS TYPE OF POROSITY

F.T.D.:938.0m(834.0mTVD)

OIL SHOW @871.4-872.2m
886.0-886.6m
891.4-892.4m
897.0-897.6m
883.4-884.0m
888.2-889.2m
892.8-893.4m

DST #1 878.0-910.0m(807.0-821.0mTVD), noGTS,
2m oil cut mud, 20m sli. oil cut mud

PERFORATIONS: 884.5-886.9m
889.5-892.0m
887.0-888.5m
895.5-897.0m

140mm(5 1/2") DIA. CASING CEMENTED @938.0mMD

F.T.D.: 903.5m

OIL SHOW @636.2-637.8m
818.6-821.0m
824.6-825.0m
838.8-848.8m
803.4-814.4m
823.6-824.0m
827.4-828.0m

DST #1 798.9-826.0m, GTS, 480m gassified oil

PERFORATIONS: 804.5-808.5m
818.4-819.6m
820.5-822.0m
823.2-824.6m
841.0-843.5m

BRIDGE PLUG @838.0m

140mm(5 1/2") DIA. CASING CEMENTED @901.6mKB

Initial Max Daily Oil Production
228.8BOPD with 83.2% oil cut.

After 16 months 121.2BOPD
with 84.4% oil cut.

Oil sales (1991-12) 47,744Bbl.

Lowest perforation 824.6m (-628.9m).

Bridge Plug @838.0m (-642.3m).

TRENTON GROUP: THICKNESS - 102.0m
DOLOMITIZATION - 51%

RAM BP #3

PERMIT 7330

MERSEA 6-16-VIII

483.0mN:107.0mE

R.F.E.: 194.8m

YEAR DRILLED - 1988

RAM BP #2

PERMIT 7231

MERSEA 8-16-VIII

293.0mN:152.0mW

R.F.E.: 194.5m

YEAR DRILLED - 1988

CONSUMERS ET AL 34152

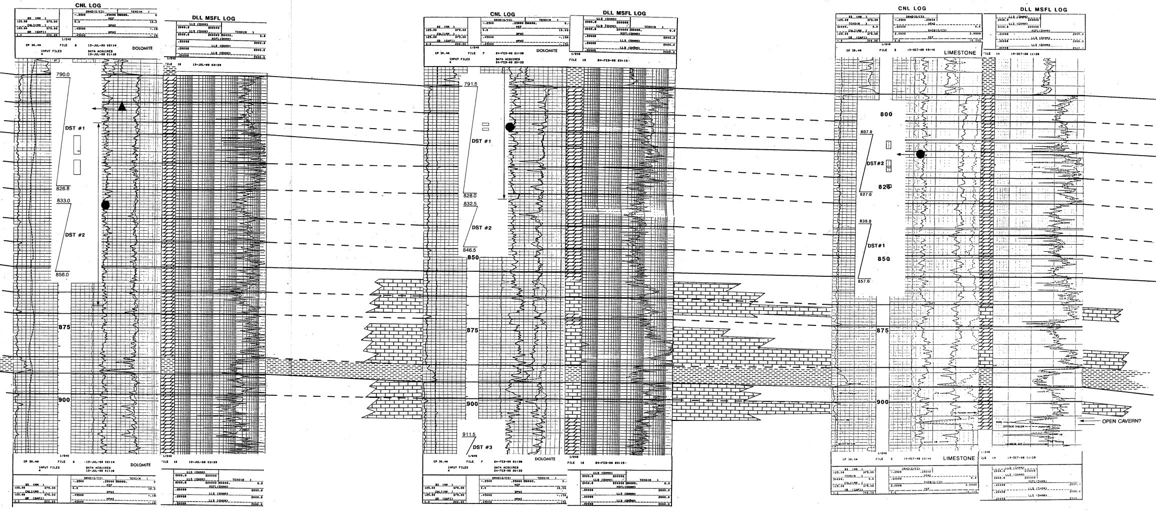
PERMIT 7409

MERSEA 7-17-VIII

318.0mN:113.5mE

R.F.E.: 195.7m

YEAR DRILLED - 1988



F.T.D.: 966.5m

OIL SHOW @805.5-867.5m

GAS SHOW @610.5-616.0m
756.5m
800.5m

DST #1 790.0-826.8m GTS, 250m gassified oil

DST #2 833.0-856.0m GTS, 165m gassified drilling fluid

PERFORATIONS 809.5-816.0m 818.0-823.0m

140mm (5 1/2") DIA. CASING CEMENTED @957.8m
73mm(2 7/8") DIA. CASING HANGING @829.0m

TRENTON GROUP: THICKNESS - 101.5m
DOLOMITIZATION - 100%

F.T.D.: 1,077m

OIL SHOW @779-830.0m

GAS SHOW @764.5m
775.0m

DST #1 791.5-828.0m No GTS, 18m oil cut mud, 247m gassified drilling mud

DST #2 832.5-846.5m No GTS, 598m fluid, 5m oil, 100m oil cut mud, 493m salt water

DST #3 911.5-922,5m No GTS, 523m salt water

PERFORATIONS 804.0-805.0m 806.0-806.7m

140mm (5 1/2") DIA. CASING CEMENTED @1,072.6m
73mm(2 7/8") DIA. CASING HANGING @808.3m

TRENTON GROUP: THICKNESS - 101.0m
DOLOMITIZATION - 74%

F.T.D.: 915.0m

OIL SHOW AT 814.0m

DST #1 838.0-857.0m, small GTS, 315m of brine
DST #2 807.0-827.0m, small GTS, 700m of oil & gas cut brine

PERFORATIONS: 809.5-812.0m 816.0-818.1m
818.0-818.5m 818.5-820.0m
824.5-825.5m

114mm (4 1/2') DIA. CASING CEMENTED AT 915.0m

60mm (2 3/8') DIA. CASING HANGING AT 825.9m

TRENTON GROUP: THICKNESS - 101.5m
DOLOMITIZATION - 83%

Initial Max Daily Oil Produc
358.2BOPD with 99.8% oil

After 35 months 87.6BOPD
with 35.8% oil cut.

Gradual steady increase in
water production.

Sales to 1991-12 183,669

Lowest perforation 825.5m

tion
cut.

Bbl.
(-629.8m).

TELESIS ET AL 34156

PERMIT 6730

MERSEA 8-17-VIII
147.4mN:187.8mW
R.F.E.: 195.2m
YEAR DRILLED - 1990

CONSUMERS ET AL 34151

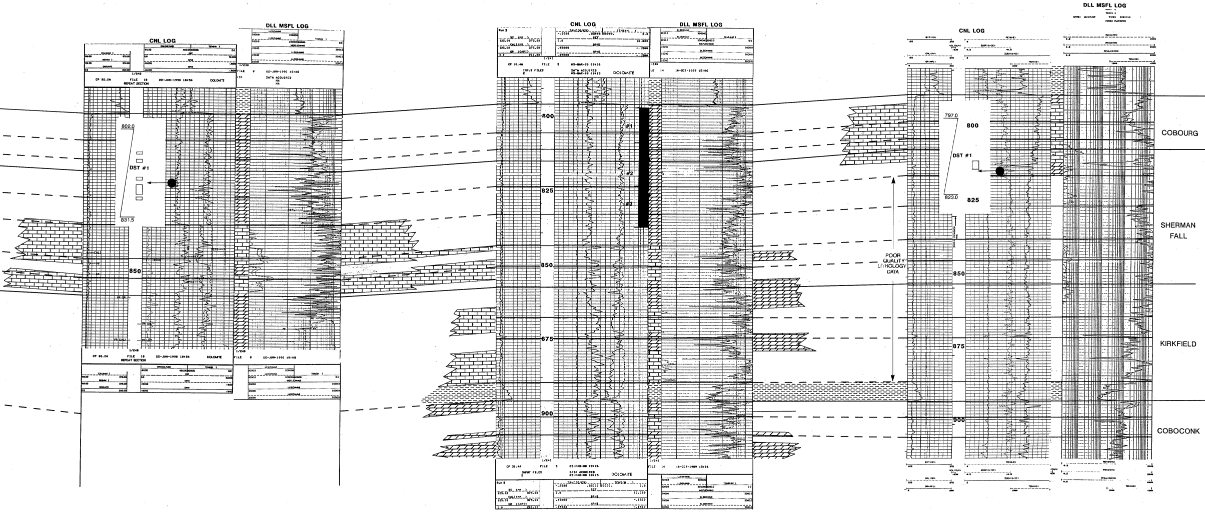
PERMIT 7242

MERSEA 7-18-VIII
117.0mN:107.0mE
R.F.E.: 195.5m
YEAR DRILLED - 1989

RAM #99

PERMIT 7200

MERSEA 7-19-VIII
107.0mN:107.0mE
R.F.E.: 193.5m
YEAR DRILLED - 1987


CNL LOG
DLL MSFL LOG
DOLOMITE
802.0
DST #1
831.5
850
800
#1
#2
#3
825
850
875
900
CNL LOG
DLL MSFL LOG
797.0
800
DST #1
823.0
825
POOR QUALITY LITHOLOGY DATA
850
875
900
COBOURG
SHERMAN FALL
KIRKFIELD
COBOCONK

F.T.D.: 875.0m **OIL SHOW @820.0m**

DST #1 802.0-831.5m GTS, 9.2m oil & water

PERFORATIONS: **809.9-810.4m 812.2-813.2m**
818.2-819.2m 820.5-824.0m 824.8-825.8m

114mm (4 1/2") DIA. CASING CEMENTED @869.8m

F.T.D.: 1,090.0m **OIL SHOW @808.5m**
837.0m

No DST

No PERFORATIONS

CORED INTERVAL

CORE 1 797.5-808.5m, Recovery 10.95m
CORE 2 808.5-823.0m, Recovery 14.35m
CORE 3 823.0-837.0m, Recovery 13.95m

TRENTON GROUP: THICKNESS - 100m
DOLOMITIZATION - 66%

F.T.D.: 1,081.0m **OIL SHOW @814.5-815.5m**

DST #1 797.0-823.0m GTS, 218m gas cut oil

PERFORATIONS: 811.5-814.5m

140mm (5 1/2") DIA. CASING CEMENTED @1,059.5m

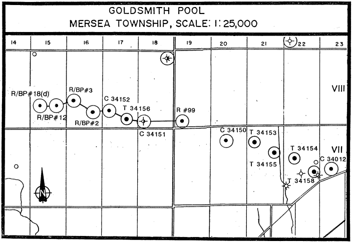
TRENTON GROUP: THICKNESS - 104.4m

EAST →

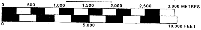
TRENTON GROUP

BLACK RIVER GROUP

CROSS-SECTION LOCATION MAP


GOLDSMITH POOL
MERSEA TOWNSHIP, SCALE: 1: 25,000
14
15
16
17
18
19
20
21
22
23
R/BP#18(d)
R/BP#12
R/BP#3
R/BP#2
C 34152
T 34156
C 34151
R #99
C 34150
T 34153
T 34155
T 34154
C 34012
T 34158
VIII
VII
N

MAP SCALE


0
500
1,000
1,500
2,000
2,500
3,000 METRES
0
5,000
10,000 FEET

LEGEND

▲ GAS SHOW

● OIL SHOW

■ SALT WATER SHOW

◣ CASING DEPTH

F.T.D. FINAL TOTAL DEPTH

R.F.E. RIG FLOOR ELEVATION

GTS GAS TO SURFACE

▦ LIMESTONE

▨ DOLOMITE

▤ SHALE

WELL NAME	INITIAL OIL PRODUCTION BOPD	INITIAL OIL CUT %	DATE ON PRODUCTION	CUMULATIVE 1992-01-01
RAM #99	ND	ND	ND	ND
M 7-18-VIII	NON-COMMERCIAL OIL SHOWS			
M 8-17-VIII	212	95.0	90-08	56,000
M 7-17-VIII	358	99.8	89-02	181,000
RAM/BP #2	ND	ND	ND	ND
RAM/BP #3	ND	ND	ND	ND
RAM/BP #12	229	83.2	90-09	47,200
RAM/BP #18	NON-COMMERCIAL OIL SHOWS			

STRUCTURAL CROSS-SECTION THROUGH WESTERN PORTION OF GOLDSMITH POOL

TOWNSHIP: MERSEA COUNTY: ESSEX
BY: R.O.COCHRANE/M.OBERMAJER DATE: MARCH 1991
REVISED BY: ________ DATE: ________
CAIRNLINS PETROLEUM SERVICES

WEST

EAST

## PPC/RAM NO. 34
PERMIT 7811
DOVER 8-4-V E
107.7m N : 139.5m W
K.B.: 178.3m

YEAR DRILLED: 1991

SCHLUMBERGER OF CANADA
COMPENSATED NEUTRON LITHODENSITY LOG

425m

6 METRES OF LOST SECTION

TRENTON GROUP COBOURG FORMATION

SHERMAN FALL

KIRKFIELD

BLACK RIVER GROUP COBOCONK FORMATION

876.4m

DST #1

908.1m

DOLOMITE MATRIX

FTD: 1078.0m
PBTD: 1067.0m

GAS SHOW: 840-870m, 883-887m
921-928m, 954-992m
OIL SHOW: 992-994m

DST: #1 876.4-908.1m, GTS 4 min.,
FTS 9 min.
270m DRILL FLUID, ISIP 5212 Kpa

PERFORATIONS: 878.0-880.0m
139.7mm CASING CEMENTED @ 1079.0m
CUMULATIVE GAS PRODUCTION AS OF 1998-01-01
1,047.2 MMSCF
REMAINING RECOVERABLE RESERVES
296.3 MMSCF

## PPC/RAM NO. 39
PERMIT 7859
DOVER 2-5-IV E
118.0m S : 182.5m E
K.B.: 178.1m

YEAR DRILLED: 1992

SCHLUMBERGER OF CANADA
COMPENSATED NEUTRON LITHODENSITY LOG

350m

DOLOMITE MATRIX

FTD: 1091.0m
PBTD: 1080.0m

GAS SHOW: 973.6-974.6m
OIL SHOW: 869-1030m

PERFORATIONS: 903.5-904.5m
927.0-928.0m
931.0-932.0m
901.0-902.0m

139.7mm CASING CEMENTED @ 1091.0m

CUMULATIVE GAS PRODUCTION AS OF 1998-01-01
14 MMCF
NO REMAINING RESERVES
WELL SUSPENDED IN NOVEMBER 1992

## PPC/RAM NO. 14
PERMIT 7210
DOVER 1-5-IV E
323.0m S : 143.0m W
K.B.: 179.7m

YEAR DRILLED: 1988

SCHLUMBERGER OF CANADA
COMPENSATED NEUTRON LITHODENSITY LOG

375m

902.0m

DST #1

929.0m

DOLOMITE MATRIX

FTD: 1159.2m

GAS SHOW: 919-921m
926-930m

DST #1 902.0-929.0m GTS,
165m SALT WATER, ISIP 7515 Kpa

PERFORATIONS: 883.5-885.5m 907.0-909.0m
890.5-892.5m 917.0-922.5m
900.0-901.0m

114.3mm CASING CEMENTED@ 1069.7m

CUMULATIVE PRODUCTION AS OF 1998-01-01
575 MMSCF
NO REMAINING RESERVES
WELL SUSPENDED AS OF
SEPTEMBER 1996

## PPC/RAM NO. 31
PERMIT 7802
DOVER 3-6-IV E
505.1m S : 107.7m E
K.B.: 179.0m

YEAR DRILLED: 1991

SCHLUMBERGER OF CANADA
COMPENSATED NEUTRON LITHODENSITY LOG

275m

914.0m

DST #1

930.0m

DOLOMITE MATRIX

FTD: 1070.5m

GAS SHOW: 915-919m, 922-930m
965-966m
OIL SHOW: 1001-1003m, 1005-1009m
1019-1033m. 1037-1041m

DST: #1 914-930m, GTS 3 min.,
FTS 5 min,210m GAS. FLUID, ISIP 5179 Kpa

139.7mm CASING CEMENTED @ 1072.0m

PROVEN DEVELOPED NON PRODUCING RESERVES
AS OF 1998-01-01
302.2 MMCF
MARGINAL OIL PRODUCER FROM
BLACK RIVER GROUP

## ROWE/RAM NO. 8A
PERMIT 0858A
DOVER 4-6-IV E
681.6m S : 299.0m W
K.B.: 177.5m

YEAR DRILLED: 1985

SCHLUMBERGER OF CANADA
COMPENSATED NEUTRON LITHODENSITY LOG

475m

982.0m

DST #1

1136.0m

DOLOMITE MATRIX

FTD: 1136.0m

GAS SHOW: 920m
953-954m
OIL SHOW: 1004-1045m

DST: #1 982-1136.0m, GTS 4 min.,
MTS 8 min., OTS 12 min.

114.3mm CASING CEMENTED @ 1133.2m

PROBABLE RESERVES IN KIRKFIELD FORMATION
558.0 MMSCF
AS OF 1998-01-01
OIL PRODUCER FROM BLACK RIVER GROUP

## ROWE/RAM NO. 9
PERMIT 6778
DOVER 6-7-IV E
476.1m N : 109.7m E
K.B.: 177.6m

YEAR DRILLED: 1985

SCHLUMBERGER OF CANADA
COMPENSATED NEUTRON LITHODENSITY LOG

LIMESTONE MATRIX

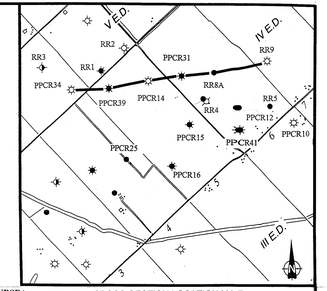
FTD: 1163.0m

GAS SHOW: 914-922m
999-1006m

DST: NONE, USED RFT

PERFORATIONS: 997.5-1000.0m, 915.5-918.0m
114.3mm CASING CEMENTED @ 1035.0m

CUMULATIVE PRODUCTION 1998-01-01
336.2 MMCF
WELL SUSPENDED
PROBABLE RESERVES IN KIRKFIELD
AND LOWER SHERMAN FALL
354.6 MMSCF




CROSS-SECTION LOCATION MAP
DOVER TOWNSHIP, KENT COUNTY
SCALE: 1:20,000

SUBSEA DEPTH METRES

-700
-725
-750
-775
-800
-825

LEGEND

SHALE
DOLOMITE
LIMESTONE
PERFORATED INTERVAL
POROSITY > 3%
DST INTERVAL

EAST - WEST STRUCTURAL CROSS-SECTION
THROUGH TRENTON GROUP
IN NORTHERN SEGMENT OF DOVER 7-5- VE FIELD
DOVER TOWNSHIP, KENT COUNTY

ORIGINAL BY: R.O.COCHRANE, D.G. KRAHN DATE: 1998-03-17
REVISION BY: R.O.COCHRANE DATE: 2004-01-21

CAIRNLINS RESOURCES LIMITED