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**Hydrocarbon Resource Assessment of the
Trenton-Black River Hydrothermal
Dolomite Play in Ontario**

2005

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Printed in London, Ontario, Canada

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Hydrocarbon Resource Assessment of the Trenton-Black River Hydrothermal Dolomite Play in Ontario

by

Golder Associates Ltd.

2005

This project was part of the Targeted Geoscience Initiative II under the Consolidating Canada's Geoscience Knowledge Program, funded by Natural Resources Canada.

Parts of this publication may be quoted if credit is given. It is recommended that reference to this publication be made in the following form:
Golder Associates Ltd., 2005. Hydrocarbon Resource Assessment of the Trenton-Black River Hydrothermal Dolomite Play in Ontario; Ontario Oil, Gas and Salt Resources Library, 35 pages, 27 figures, 8 tables, 11 cross sections, 7 pool maps, 4 appendices

FOREWORD

In October, 2003, the Ontario Oil, Gas and Salt Resources Library, the Ontario Ministry of Natural Resources, Ontario Geological Survey and Natural Resources Canada entered into a partnership under the Targeted Geoscience Initiative to complete a two-phase project known as Southern Ontario Hydrocarbon Resource Evaluation and Regional Stratigraphic Synthesis. The two phases of work comprise; 1) Hydrocarbon resource evaluation of the Ordovician Trenton-Black River hydrothermal dolomite play in southern Ontario, and 2) Regional stratigraphic correlations.

PART 1 – HYDROCARBON RESOURCE EVALUATION

The objective of this part of the Work is to update the evaluation of Ontario's resources of oil and natural gas which was completed by the Ontario Geological Survey in the early 1980's. The present study is focussed on assessment of the resources contained in pools discovered in rocks of Ordovician age from 1981 to the end of 2002 and an update of resource additions in previously discovered pools. Most of this phase of the Work was contracted to Golder Associates Ltd with contributions by staff of the Ontario Oil, gas and Salt Resources Library and the Ministry of Natural Resources.

PART 2 – REGIONAL STRATIGRAPHIC CORRELATIONS

The objective of this part of the Work is to produce and publish an updated report based on Paper 67-2 of the Ontario Department of Energy and Resources Management entitled "Guide to the subsurface Palaeozoic stratigraphy of southern Ontario". This phase of the Work is a cooperative effort of the Ontario Geological Survey, the Ontario Oil, gas and Salt Resources Library and the Ministry of Natural Resources.

This report summarises the results of Phase 1 of the project, an evaluation of the potential oil and gas reserves contained in the Ordovician Trenton-Black River hydrothermal dolomite play in southern Ontario. No attempt has been made to edit the report, the technical content of which is entirely the responsibility of the authors. Discrepancies may occur for which the Oil, Gas and Salt Resources Library does not assume responsibility.

REPORT CONTENTS

This report is published on CD. A hard-copy report can be produced on demand by contacting the Oil, Gas and Salt Resources Library at www.ogsrlibrary.com. The CD contains the following files and or folders;

Golder report.pdf: This file contains a number of reports including; geological play analysis and resource assessment with 8 tables, 27 figures and 3 exhibits, a reserves report, production decline analysis charts and graphs for each well in the play drilled since 1981 and for each pool discovered in that time period, pool maps for 7 oil and gas pools, 4 structural cross-sections through representative pools

Additional cross-sections: This folder contains 4 .pdf files and 3 .tiff files of seven structural cross-sections through representative pools.

Ordovician monthly production: This folder contains a spreadsheet with tabulated monthly production of oil, natural gas and water from 1983 to the end of 2002 for every Ordovician well in Ontario

Powerpoint: this folder contains a powerpoint file of a paper presented at the 2005 annual conference of the American Association of Petroleum Geologists held in Calgary.

Readme: This folder contains a text file named "report guide" with an overview and background information about the report and directions for its use.