INTRODUCTION & LIBRARY HISTORY

The Oil, Gas and Salt Resources Library (OGSR Library) is a non-profit geoscience research center focusing on data associated with wells drilled under the Oil, Gas and Salt Resources Act (OGSRA). The management of Ontario petroleum well data by the OGSR Library is now in its 20th year representing a rare case of an industry-funded petroleum data centre. The OGSR Library is responsible for providing the public with:

- Access to core, cuttings and public well files
- A service area for client research
- GIS, geological and clerical services
- Online resources and web maps
- Publications, Open File Reports (OFR) and research initiatives regarding Ontario geology

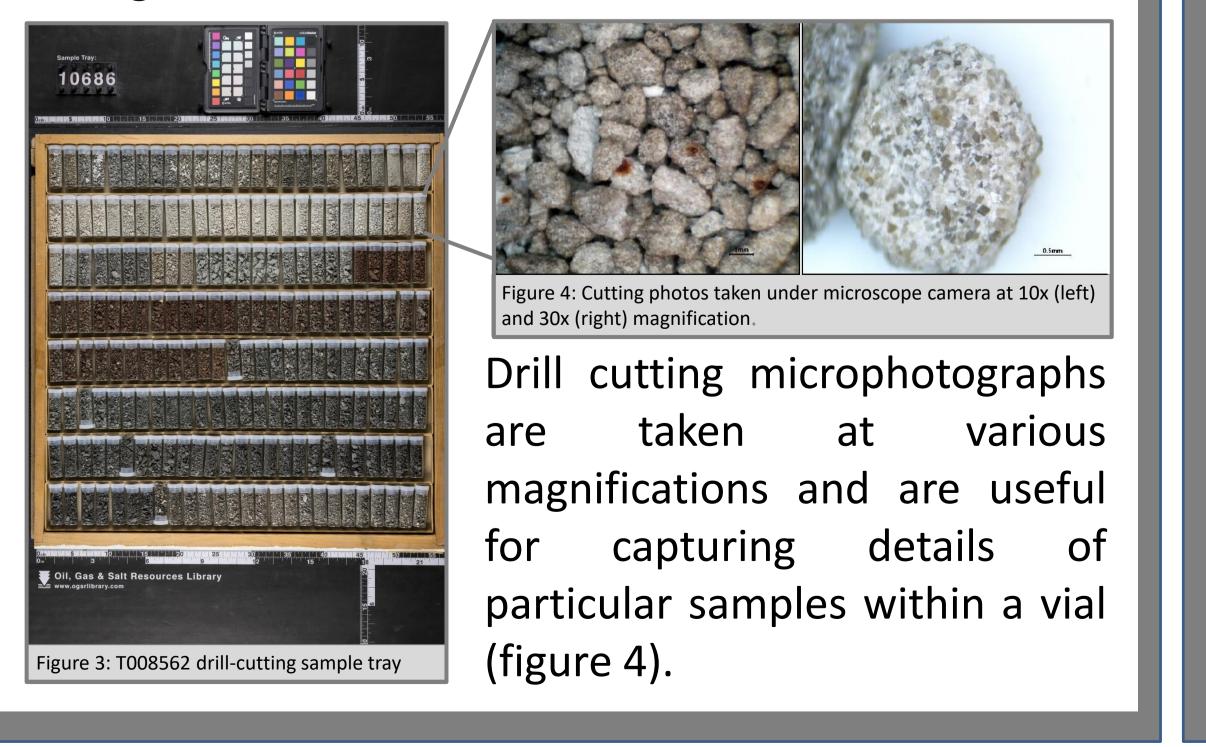
The OGSR Library is now operated by the Oil, Gas and Salt Resources Trust, created by the Ontario Ministry of Natural Resources and Forestry (MNRF) under the authority of the OGSRA (figure 1).

PHOTOGRAPHY

High resolution photography is completed in priority order upon client request. Our most extensive database is of core photos. There are 3 photos taken for each core box in this order: white light (dry core), ultraviolet light and white light (wet core) photo (figure 2).



High resolution photography of drill cuttings are now available. Tray photos are useful for a quick snapshot of well geology (figure 3). Trays are shaken between photos to capture movement and orientation of cuttings in vials.



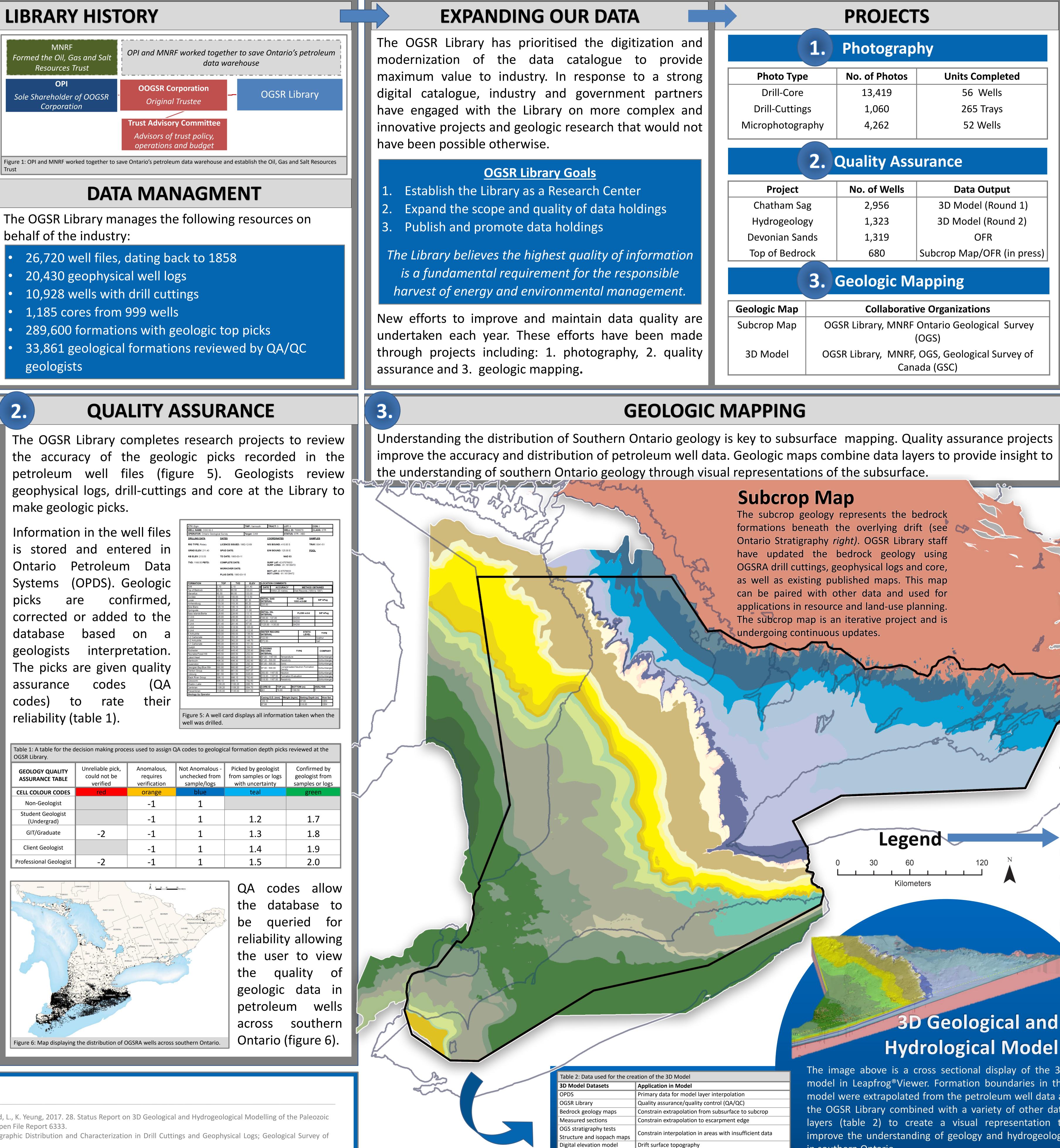
REFERENCES

¹Carter, T.R., Brunton, F.R., Clark, J., Fortner, L., Freckelton, C., Logan, C., Russell, H.A.J., Somers, M., Sutherland, L., K. Yeung, 2017. 28. Status Report on 3D Geological and Hydrogeological Modelling of the Paleozoic Bedrock of Southern Ontario. Summary of Field Work and Other Activities. 2017, Ontario Geological Survey, Open File Report 6333. ²Davis, C.L., 2017. Quartzose Sands in the Lower to Middle Devonian Strata of Southwestern Ontario: Geographic Distribution and Characterization in Drill Cuttings and Geophysical Logs; Geological Survey of Canada, Open File 8286, 42 p. https://doi.org/10.4095/305359 Note: All information and data is available through the OGSR Library website – <u>www.ogsrlibrary.com</u>

20 Years of Managing Ontario Petroleum Well Data In Trust

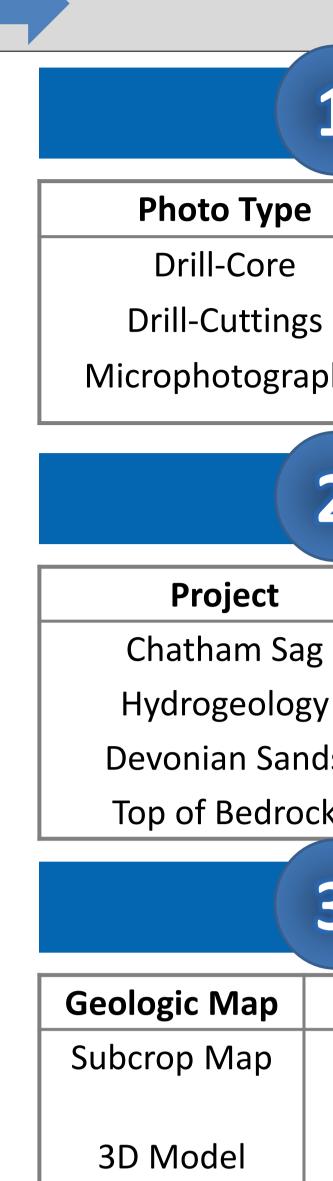
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Bedrock topography OGS

Bedrock topography

Ontario's

for geoscience&petroleum START EXPLORING TODAY! www.ogsrlibrary.com/newsletter

PROJECTS

1.	Photography	
	No. of Photos	Units Completed
	13,419	56 Wells
'n	1,060	265 Trays
ohy	4,262	52 Wells

2. Quality Assurance

	No. of Wells	Data Output
5	2,956	3D Model (Round 1)
ý	1,323	3D Model (Round 2)
ds	1,319	OFR
k	680	Subcrop Map/OFR (in press)

3. Geologic Mapping

Collaborative Organizations			
OGSR Library, MNRF Ontario Geological Survey			
(OGS)			
OGSR Library, MNRF, OGS, Geological Survey of			
Canada (GSC)			

The subcrop geology represents the bedrock formations beneath the overlying drift (see Con-Ontario Stratigraphy right). OGSR Library staff have updated the bedrock geology using OGSRA drill cuttings, geophysical logs and core, as well as existing published maps. This map can be paired with other data and used for applications in resource and land-use planning. The subcrop map is an iterative project and is

> **3D** Geological and **Hydrological Model**

The image above is a cross sectional display of the 3D model in Leapfrog[®]Viewer. Formation boundaries in the model were extrapolated from the petroleum well data at the OGSR Library combined with a variety of other data layers (table 2) to create a visual representation to improve the understanding of geology and hydrogeology in southern Ontario.

Legend

Kilometers



PORT LAMBTON GROUP

KETTLE POINT

HAMILTON GROUP

MARCELLUS

DUNDEE

LUCAS

AMHERSTBURG

ONONDAGA

BOIS BLANC

BASS ISLANDS

SALINA GROUP-**FUNIT**

SALINA GROUP-**E UNIT**

SALINA GROUP-**CUNIT**

SALINA GROUP-**A UNIT**

GUELPH

GOAT ISLAND TO FOSSIL HILL/REYNALES

CABOT HEAD TO MANITOULIN

QUEENSTON

GEORGIAN BAY-BLUE

0

Ont ORDOV

MOUNTAIN

COBOURG/ LINDSAY

SHERMAN FALLS/ VERULAM

KIRKFIELD/ COBOCONK/ BOBCAYGEON

GULL RIVER

SHADOW LAKE

CAMBRIAN

PRECAMBRIAN