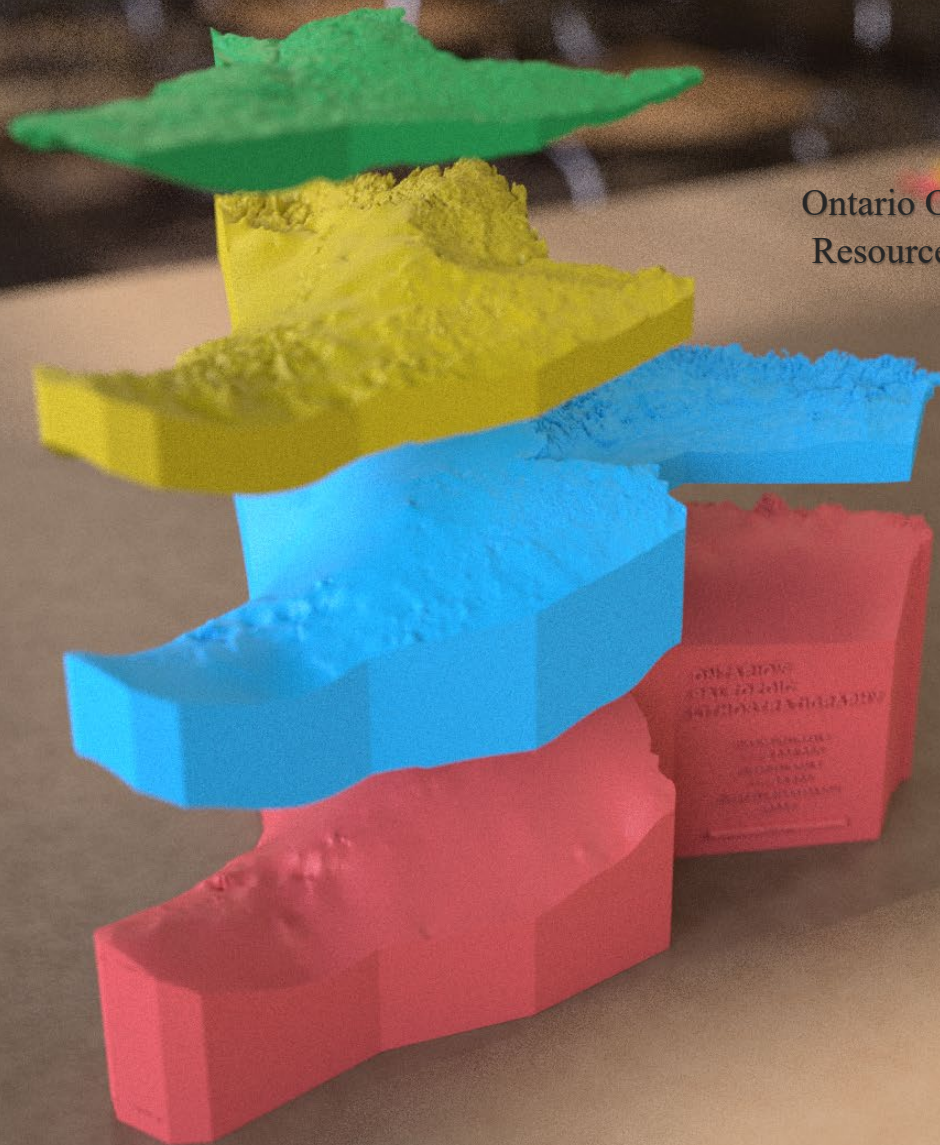


Oil, Gas and Salt Resources Trust

2022 Business Plan

Prepared by:
Ontario Oil, Gas & Salt
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Rendering of 3-D Printed Model of Ontario's Paleozoic Bedrock

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Oil, Gas and Salt Resources Trust

MISSION

The Oil, Gas and Salt Resources Trust is established by the Oil, Gas and Salt Resources Act of Ontario for the purpose of managing information and funding research relating to oil, natural gas, salt solution mining, storage in geological formations, fluids in geological formations, and other activities pertaining to the Act.

Information and geological sample storage, organization, transformation, and communication are done on an ongoing basis by the Ontario Oil, Gas & Salt Resources Corporation (OOGSRC), the *Original Trustee*. The trustee will fulfil the duties assigned to them under the Trust Indenture and assist all parties interested in exploring the subsurface Paleozoic rocks of Ontario.

OBJECTIVES

- Promote use of core and cuttings laboratory at the Oil, Gas and Salt Resources Library and maintain laboratory in good order. Including, enhancements to racking in the core storage area.
- Make all Library data available in digital mediums through a self-serve online portal. To attract clients that prefer to only work online and promote use of physical rock catalogues in the facility.
- Collect and maintain information and develop products relating to oil, natural gas, salt, and subsurface fluid resources.
- Communicate and promote Ontario geoscience data in new and innovative mediums.
- Enhance and manage a sustainable business

1.0 Introduction

The Oil, Gas and Salt Resources Trust (Trust) 2022 Business Plan was prepared to fulfill the mandate of the *Trust Indenture* between the Province of Ontario and the Ontario Oil, Gas & Salt Resources Corporation, an entity established by the Ontario Petroleum Institute Inc. The Trust also establishes that a facility named the Oil, Gas & Salt Resources Library (Library) will host data, files, drill samples, library materials, and other physical assets to be used in the delivery of the trust objectives.

2.0 Executive Summary

The 2022 Business Plan identifies both the long-term strategy and short-term action plans undertaken by the OOGSRC in operating the Oil, Gas and Salt Resources Library as a resource centre for oil and natural gas, hydrocarbon storage, salt/solution mining industries, carbon capture and storage, and other sub-surface sectors in Ontario and Canada.

The OOGSRC is a self-sustaining organization that generates its revenues from the data held at the Library and from the Trust changes paid by OGSRA licence holders and Library users.

In 2022, the OOGSRC will focus on improving digital delivery of services. Delivery will be made via an online portal that will provide access to data sets, membership signups, and data purchases. In 2020 and 2021 the importance of online data access was underscored; the OOGSRC will bring more existing Library data online and create tools that will allow members and patrons to extract value from the data.

3.0 The Oil, Gas and Salt Resources Trust

The Ontario Ministry of Natural Resources formed the Oil, Gas and Salt Resources Trust pursuant to amendments made to the Oil, Gas and Salt Resources Act in 1997. A Trust Indenture signed on February 16, 1998 with the “Original Trustee”, the Ontario Oil, Gas & Salt Resources Corporation, an entity established by the Ontario Petroleum Institute Inc (OPI). The OPI is the sole shareholder of the Ontario Oil Gas & Salt Resources Corporation (Corporation). The OPI appoints the board of the Corporation. The core storage facility and laboratory known as the “Petroleum Resources Laboratory” was renamed “Oil, Gas and Salt Resources Library” (OGSRL) and is the site of the operation.

The Trust Indenture transferred responsibility for the operation of the core and cuttings storage area, public well files, client service area and reference library to the Trustee, including payment of all reasonable costs and expenses of the Oil, Gas and Salt Resources Library.

Requirements for a Trust Advisory Committee (TAC) exist within the Trust Indenture. The TAC is comprised of four representatives from the oil and natural gas exploration and production industry, and one representative from each of the natural gas storage, hydrocarbon cavern storage, and salt solution mining industry. The TAC meets regularly to approve the Trust budget and review Trust charges.

3.1 The Structure of the Trust Indenture:

<p>Ontario Ministry of Energy, Northern Development and Mines</p>	<p>Trustee Ontario Oil, Gas & Salt Resources Corporation ↓ Board of Directors ↓ Manager ↓ Staff and Contractors ↓ Oil, Gas and Salt Resources Library</p>	<p>Trust Advisory Committee</p>
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3.2 Ontario Oil, Gas & Salt Resources Corporation

The OOGSRC board consists of the OPI chairman, OPI vice-chairman, and OPI board members elected by the OPI to be directors, as per OPI by-laws.

The 2022 Oil, Gas and Salt Resources Business Plan / Budget was prepared by the 2021 Ontario Oil, Gas & Salt Resources Corporation: Jim McIntosh, President; Scott Lewis, Vice-President; Jeff Luckovitch, Director; Jack Norman, Director; Peter Rowe, Director.

The 2022 Ontario Oil, Gas & Salt Resources Corporation are: Scott Lewis, President; Peter Budd, Vice-President; Frank Kuri, Director; Jeff Luckovitch, Director; Peter Rowe, Director.

3.3 Trust Advisory Committee

The Trust Advisory Committee is a seven-person committee comprised of four representatives from the oil and natural gas exploration and production industry, and one representative from each of the natural gas storage industry, the hydrocarbon cavern storage industry, and the salt solution mining industry, appointed by the Ontario Oil, Gas & Salt Resources Corporation.

Oil and Natural Gas Exploration and Production:

Dale Norman, Land Manager, Elexco Land Services, Ltd.
Mike Dorland, Consulting Geologist
Terry Carter, Consulting Geologist
Heather Gilpin, Lagasco Inc.

Natural Gas Storage:

Shelie Cascadden, Senior Geologist, Enbridge Gas

Hydrocarbon Cavern Storage:

Mike Edgar, Site Supervisor, Corunna Facility, Pembina Pipeline Corporation

Salt Solution Mining:

Syed Kazmi, Compass Minerals

Ontario Ministry of Natural Resources (non-voting observer)

Lee Fortner

The chairperson of the Trust Advisory Committee is Dale Norman.

3.4 Oil, Gas and Salt Resources Library Team

Jordan Clark, Manager
Matt Dupont, Media and Information Technician
Candace Bocking, Quality Assurance Geologist
Maryrose D'Arienzo, GIS and Database Assistant
Ramen Jan Tolo, Geological Laboratory Assistant

4.0 Industry Summary

Ontario's petroleum and salt solution mining industries include the following activities:

- (i) oil exploration and production;
- (ii) natural gas exploration and production;
- (iii) natural gas underground storage;
- (iv) salt solution mining; and
- (v) hydrocarbon underground storage associated with the petrochemical refining industry
- (vi) compressed air energy storage

These activities provide Ontario consumers with the following:

- (i) a percentage of Ontario produced oil supply and related products; and
- (ii) a percentage of Ontario produced natural gas supply,
- (iii) storage of imported oil by pipeline and rail from sources North America;
- (iv) storage of natural gas imported by pipeline from sources in North America;
- (v) table salt and industrial salt – Ontario is a net exporter of salt produced from salt solution mining;
- (vi) underground storage caverns of product necessary for Ontario's petrochemical and refining industry;

An estimate of the oil and natural gas industry's contribution to the Ontario economy:

- (i) approximately 700 plus people directly employed in exploration, production, storage and salt solution mining in Ontario;
- (ii) industry assets = \$650 million;
- (iii) personal total taxable income = \$55 million;
- (iv) services and goods purchased by the industry = \$90 million;
- (v) lease payments and royalties paid to landowners and the crown = \$10.4 million; and
- (vi) municipal taxes = >\$4 million per year.

The value of production and storage in Ontario in 2018:

- (i) 1,364 wells produced 317,839 barrels of oil = \$19 million
- (ii) 1,167 wells produced 4.7 billion ft³ of natural gas = \$20 million;
- (iii) 7,875 million m³ (278 billion ft³) of natural gas storage capacity = \$1 billion (estimate) in value;
- (iii) 3.5 million m³ of hydrocarbon storage capacity = ± \$1 billion in value; and
- (iv) Solution Salt Value – no data available.

The annual value of oil and natural gas sector to the Ontario is estimated at \$5 billion.

5.0 Oil, Gas and Salt Resources Library – A Resource Centre

5.1 Resources

The Oil, Gas and Salt Resources Library (Library) can trace its origin to the late 1800's, when the Geological Survey of Canada (GSC) solicited voluntary submissions of drill cuttings and core from oil and gas wells drilled in Ontario and other parts of the country. This informal collection evolved into the establishment of a core and drill cuttings sample processing, storage and study facility in Ottawa. In 1950, a similar facility in Calgary was established which housed all drill cuttings samples from Western Canada. In 1971, the Ontario cores and drill cuttings samples were collected and sent to the new Petroleum Resource Laboratory in London, Ontario that was owned and operated by the Ontario Ministry of Natural Resources

The Library houses resources and data available for study including:

- (i) drill cuttings samples from over 13,100 wells;
- (ii) cores from over 1,000 wells;
- (iii) file information on approximately 27,000 wells including geophysical logs, formations tops, well history and construction;
- (iv) oil/gas/water zones, initial completion results;
- (v) core analyses,
- (vi) oil/gas/water analyses; and
- (vii) an extensive collection of reference books, periodicals and reprints on the subsurface geology of oil, gas, salt and subsurface storage resources of Ontario.

Maintaining a fully digital and accessible record of the Ontario petroleum industry remained the primary concern of the trust. This project completed approximately 500,000 scans of well plugging and other technical reports now available on-line. New documents as scanned and made available through the website as they arrive at the Library. An up-to-date catalogue of digital documents that accurately reflects what can be found in the files of the physical library is key to maintaining user trust and promoting online use of library resources.

The Ontario Petroleum Data System data entry project is complete with a total count of approximately 27,000 wells on record. Data integrity is an ongoing concern, as with any database, and in its capacity as a library and data maintainer the Oil, Gas and Salt Resources Library is constantly monitoring data quality. New efforts to improve and maintain data quality are undertaken each year by the Library and between the Library and industry partners. In 2016, approximately 80,000 geological picks graded by the MNRF and the Geologic Survey of Canada (GSC) as part of a quality assurance program. Work on the geology portion of the database is likely to continue with GSC from 2019 through 2022.

Newly digitized and quality assured data is put in to service each year in the form of new map products. The annual Pools and Pipelines Maps sums up the total cumulative production numbers for all pools producing natural gas and crude oil in Ontario. A geographical component of this project produced a new layer of updated pool boundaries and published in the Oil and Gas Pools and Pipelines Map of Southern Ontario. In 2020, a new round of advertisers for the map and new advertising opportunities were available. Ads will now be display on the heavily trafficked on-line version known as *PxTools* and on the Library website.

5.2 Services

The Library attracts industry participants wanting to view data files relating to wells drilled in Ontario (i.e., well cards, production information, plugging information, etc.), core and drill cutting samples for wells drilled in Ontario, maps of well locations, and open file reports on the industry. Clients can review materials in the Library, and if relevant, take copies of the data files for studying outside of the Library.

The Library organizes data for use in Geographic Information Systems (GIS) and provides assistance to industry members looking to set up their own GIS system. Data available include open source base data maintained by Ontario and industry specific data layers maintained by the Library. A full-time technician with expert training in GIS software is available to fill all client requests. Other laboratory work relating to drill cutting sampling and rock core sampling are also available.

The Library also operates a dynamic website (www.ogsrlibrary.com) that contains all relevant data from the Ontario government electronic database, from hard copy records held in the Library, and from special electronic databases created by the Library. Member access includes individual well history complete with geology, analysis, geophysical logs, production, plugging and stimulation. The data is available to view in electronic format and all the original documents are accessible as scans.

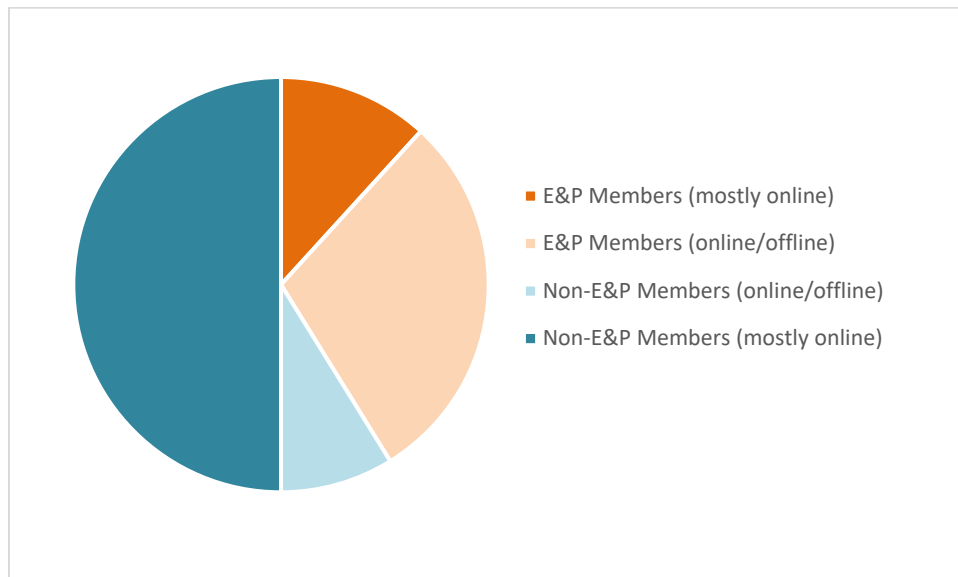


Figure 1: Member Segments by Member Business Focus and Online vs. Offline Usage of Library Resources

As seen above in figure 1, most members of the Library use the resources exclusively online (saturated colours). Further, most current Library members operate businesses outside of hydrocarbon exploration and production (E&P) as indicated by the teal segments of the chart. This highlights the need for the Library to continue focusing and acquiring members outside of the founding exploration and production segments that can utilize the resources exclusively

online.

The Library website posts all basic digital petroleum well data for all the counties in Ontario for complimentary downloading (well location and historical data). A set of enhanced and value-added subsurface data for all counties is available for purchase. The website receives regular updates of verified county data and digital data products. The Library staff utilizes this digital data for plotting specialized maps that combine different data types including well locations, bedrock geology, bedrock topography, oil and gas pools, and digital elevation models for Ontario as well as incorporating results from data queries and filters.

All drill cores and rock chip samples from the Ontario petroleum industry submitted to the Library are processed, catalogued, and stored on-site. Over 12,000 wells with drill samples and 1,100 drill cores are in the Library warehouse. This unique catalogue of raw scientific material is available for viewing and analysis by clients, industry members, consultants, governments, academics, or members of the public. A laboratory is available at the facility for client use and stocked with basic chemicals and equipment for this purpose. Remote users of the Library can request [high-resolution core photography](#) and Library staff can take samples at their request. In most cases, cores at the Library may be samples and those samples removed from the Library of analysis. In the case of material removal, a small amount of material must always be retained, and the results of the analysis must be added to the Library archives for publication after an agreed upon period.

The Production Module for the Library's well database now incorporates all 80,000-production forms scanned. The forms posted on the website are available for viewing at no charge by the public. This module also contains digitized monthly production data for all wells completed between 1992 and 2016. Annual production reports by well are available from 1967 to 1991. Prior to 1967 production is recorded on a geographic basis dating back to 1897. The Library has over 8 million rows of digital production data available for query and download by individual and corporate members.

Production data from 2017, 2018, 2019, and 2020 has been scanned and is being made available to members digitally. These years, and all future years, will also be brought to the digital database as requests for this type of data have become increasingly popular, especially from researchers working in the basin but located outside Ontario.

In late 2021 access to production scans, production databases, GIS products, and specialty data tables was greatly enhanced by the introduction of a member's download section in the data area of the website (www.ogsrlibrary.com/data_free_petroleum_ontario#member-data). This new section exposed a catalogue of member only datasets that were previously available only by request. This list is visible to all visitors of the website but only active members may download the data.

5.3 Ongoing Initiatives

5.3.1 Digital Access to all Oil, Gas and Salt Resources Act (OGSRA) Well Records

All the public well file documents stored at the Library are scanned and available on-line to members, thanks to an initial project with MNRF. On-line and hard copy sets of OGSRA well records are constantly maintained and being made accessible to the public by the Library.

5.3.2 Custom Datasets for Industry Partners

The Library has worked closely with MNRF, OGS, and GSC to create custom data products for their use. In 2019 the Library will continue to use its one of a kind collection of drill cuttings, rock cores, and geophysics to provide value to our government clients.

5.3.3 High Resolution Core and Rock Cutting Photography

Core photography and chip sample microscope photography are services made available to enable remote viewing of rock samples. Photographs are done by request and by Library staff on an ongoing basis to create an always accessible catalogue of images.

In 2021 the catalogue of medium-resolution core photographs was made accessible through various channels, including well cards hosted on-line and PxTools for *Google Earth*. This brought 28,000 core photos online in addition to 2,500 chip sample photographs already on-line in the PxTools channel. Over 30,000 rock images are available to browse.

The Library does not see this as a replacement to tradition in-person viewing of samples but a new tool that will allow viewing and comparison of far more samples than was previously possible. It may reveal new patterns and trends to users that could not be identified observing a smaller sample set. In-person core and chip sample viewing will be enhanced by clients being able to identify samples of interest with more accuracy before attending the facility.

5.3.4 Quality Assurance of Geology Database

Geologic data from the OGSRA well geology database has become a critical input to models created by various government agencies. The Library has been working with the Geological Survey of Canada (GSC), Ontario Geological Survey (OGS), and Ontario Ministry of Natural Resources and Forestry to ensure the highest quality of data is available for modelling. Previous modelling efforts have highlighted errors in the geological data. Geologists working at the Library correct the data and distribute it to current and future modelers.

5.3.5 Annual Pools and Pipelines Map

Following the submission of annual reports, the Library does a review of pool production and boundaries. Slight changes made to the pools shape layer as required and the results, along with the recent year's production statistics published on a hard copy map. The *Pools and Pipelines* map also features ads by sponsors, which are up for renewal in 2019. Sponsors of the 2019 maps will also receive on-line advertising on the Library website and inside the Library's *PxTools* overlay for *Google Earth* that is heavily trafficked by industry.

5.3.6 Seismic Surveys and Shot Lines

Each year the Library uses reports from operators to update a geographic database of seismic survey locations. This database appears online through the Library's PxTools product for *Google Earth* and the raw data is available directly from the Library. Going forward the Library will be looking to enhance its database of seismic survey locations with links to vendors and actual data if it should present itself.

5.3.7 Log Digitizing

TGI research provided budget for hardware/software to scan and digitize hard-copy geophysical well logs, and some funding for personnel to acquire select project logs. Staff have been trained on digital acquisition and can digitize logs upon client request. A fee for this work is charged. There is a continuous review of current digital data pricing. There are on-going requests to ensure that digital log submissions are part of the next Operating Standards update

5.3.8 Digital Data Publishing

The Library will continue to work, in partnership with the MNRF to build, maintain and market a digital database of geological and engineering information on wells drilled in Ontario. The Library will be the data vendor for information on Ontario oil, gas, and salt and storage resources, based on the Data Resale Agreement with MNRF. New data is constantly being uncovered and added to the library catalogue. This effort has highlighted the need for a wide format scanning device that would allow the Library to engage in more data capture internally and as a service.

5.3.9 Digital Archiving of Geophysical Log

A major undertaking in 2012 was the digital log archiving that produced over 20,000 geophysical log scans from paper records and became the ultimate backup and an on-line resource. Maintenance of this catalogue continues with newly received logs added weekly. Enhancements for 2020 include more conversion of scanned raster logs into true digital vector form. The first step in this process will be to create smarter raster's in 2020 and record more details about each log using an on-line portal. This will immediately create better search and raster products.

5.3.10 Petroleum Production Digitizing

The MNRF provided funding to create a full digital backup of all annual reports, including production documents, and create a searchable database of petroleum production. In all, 80,000 records were scanned and about 500,000 months of production were entered into the database by Library staff using a custom build on-line digitizing portal. The operator can now query and aggregate the information on production, formation, location and on other criteria on a per well basis instantaneously. After verifying the submitted reports, the scanned records and the database are updated.

5.3.11 Virtual Reality, 3-D Modelling and Printing

Virtual reality and other 3-D mediums have become an important tool for science communication allowing people to visit and experience locations deep in the subsurface that are impossible to explore otherwise. Using 3-D modelling assets created in conjunction with GSC and OGS the Library can create 3-D, 360 virtual reality experiences to help people understand the Paleozoic geology of Ontario. Models may also be 3-D printed to enhance the hands-on subsurface experience that was previously limited to point samples of rock cutting and core. These communication products will result in a new service that can be provided to clients, the public, and educational institutions. Communication via these new mediums aligns with the Library's information management goals by helping people understand the type of information available and some potential applications.

Geological data available through the Library can be modelled for clients and delivered as a VR experience or 3D printed physical model.

5.4 Current and New Activity:

- Improvements to the warehouse space are required in 2022 to make space for newly drilled cores by improving the storage efficiency of duplicated and older cores. Purchase of several large racks and hiring of staff will be required.
- MNRF has an operational database of all licensed wells in Ontario within the Ontario Petroleum Data System (OPDS). All new wells and well information, except for production information, entered OPDS. The OGSRL, in conjunction with MNRF, has populated the database with old well information and files.
- Sale of value-added subsurface data from OPDS by the Library, that began in 2003, will continue through 2022. Data consists of geological formation tops, logging records, and oil/gas/water interval records.
- Improvements to the lab space include more supplies available to clients and more services. This includes additional core photography, thanks to support from the Ontario Geological Survey (OGS).
- Well production history is one of the most sought-after items by Library users. The Library has produced a digital dataset of well production history and has posted the data for viewing on its website for use by members. Data tables are now available as downloads to members.

6.0 Marketing

In 2022, the OOGSRC will promote its services to the Ontario oil and natural gas exploration and production, underground storage, salt solution mining and the groundwater industries, and market the Library as a resource centre and provider of member and client services.

These activities will support generating Library sources of non-fixed revenue from five strategic areas:

- **Projects**
- **Membership**
- **Data sales**
- **Data and Mapping Services**
- **Publications and Products**

6.1 Business Development

The Trust's business development activity will target additional project work, sales of information and data, new memberships, publications, and direct support of client activity through data enhancement services. Data enhancements will focus mainly on delivery via a self-serve on-line portal. Additional data services will be sought in 2022 by reaching out to various Government of Ontario ministries and sector associations to promote the Library's expertise in extracting knowledge from its data catalogue.

Self-serve actions on the Library website will be developed to allow member sign-ups, renewals, and purchase of data. The Library seeks to automate all repetitive requests for data that require employee intervention. Clients will have faster access to the data products they require, since all products will be listed and immediately accessible upon purchase. Once distribution and access is automated staff will be focus more efforts on creating and updating data products for the distribution channels.

The geographical markets are Ontario, Alberta, and the mid-western and northeastern USA. In Ontario, users are primarily the operator of oil, gas, solution mining, natural gas storage, oil field fluid disposal or subsurface fluid storage wells in the province of Ontario, or a consultant providing services to these operators. In 2022 this may include operations related to newly licensed compressed air storage wells or consultants interested in carbon capture and storage. Outside of Ontario, potential clients are resource exploration companies considering new locations for investment or doing research on the wider basins.

The Library will continue to look for opportunities to sell data and information (see Appendix 1), primary assets that the Library has to offer current and potential clients. Various sectors of the economy – energy, telecommunications, construction – responding to market conditions and regulations, specifically environmental compliance, may require resources offered by the Library.

Potential project work opportunities may come from the Ontario Ministry of Natural Resources and Forestry, Ontario Geological Survey, Geological Survey of Canada, and member companies, educational institutes, or individuals.

Markets for membership include the oil and gas sector, hydrocarbon storage and salt solution mining companies that fall under the jurisdiction of the MNRF. Academics, researchers, and environmental consultants form an important, and growing, membership market. The other membership potential is with any sector that does subsurface work in Ontario. This includes government ministries and agencies, companies providing geotechnical, geothermal and groundwater services, academic researchers, and the public. With a focus on providing all the member resources through the website geographic barriers for membership have been removed.

6.2 Promotion

The OOGSRC's promotional activity will focus on developing relationships with organizations that work with subsurface geological data.

Library services and resources will be promoted to government ministries and agencies already involved in regulating the subsurface.

Online promotion and enhanced communication through the website will draw more customers and members once the website is developed to handle e-commerce directly. This promotion will occur through an existing network of social media channels cultivated over the past several years using paid and unpaid media.

The list of potential conferences in 2022 will include:

- EPEX 2022 OPI 59th Conference and Trade Show, TBD
- Regional-Scale Groundwater Geoscience Open House, February TBD

The Library will add EPEX 2022 conference talk videos to its *YouTube* channel, a stream that has generated thousands of views annually. Videos guiding visitors through the Library website and data channels will also be published as an always-on virtual attraction.

These conferences as well as others offer potential opportunities for the OOGSRC to collaborate with other organizations, the OPI and MNRF to maximize its exposure. As in-person events return the Library will seek more opportunities to showcase new virtual reality and 3-D printed material that both provide more immersive data experiences and highlight what is possible with Library data.

7.0 Budget

7.1 Revenue

The Trust has fixed and non-fixed revenue.

Fixed revenue comes from well license fees collected annually through Ontario Regulation 245/97 that obligates producers to pay a yearly production-based fee assessed by the MNRF. Fixed revenue is projected to decline slightly in 2022 with production volumes.

The non-fixed revenue comes from memberships and data sales and is expected to increase slightly over 2021 with improvements to the website and online member sign-up and a broader return to work.

Revenue for Special Projects is expected to be more than \$100,000 due, in part, to a three-year project with the Geological Survey of Canada (GSC) and various projects from the Ontario Geological Survey.

The 2022 Library fee schedule attached as Appendix 1.

7.2 Expenses

The Trust expenses for 2022 are anticipated to decrease as the volume of special projects declines. However, expenses will remain elevated over the usual level given the large volume of rock core that will need to be processed in 2022, the costs of processing being not entirely covered by the core processing fee received in 2021. Therefore, the decrease in expenses will be mostly attributable to reduced project equipment expenses with only a slight decrease in staff expenses. The details on the expenses including the Trust Remuneration are in Appendix II Oil, Gas and Salt Resources Trust Budget. The capital expenditure of \$10,000 is shelving to provide additional storage capacity for the Library.

8.0 A Sustainable Future

The Oil, Gas and Salt Resources Trust has successfully supported the oil and natural gas industry, hydrocarbon storage, and the salt/solution mining, geological fluid, and subsurface industries with an interest in the Paleozoic rocks of Ontario.

A contingency reserve of \$590,000 has been built up to ensure it has operational stability.

An anticipated surplus from 2021 will be spent in 2022 to secure the future of the core warehouse and online services. The OOGSRC will continue to manage a sustainable business with a commitment to operating balanced / surplus budgets in the long-term.

9.0 Oil, Gas and Salt Resources Trust Priorities 2022

Enhance the website hosted at ogsrlibrary.com to provide a more coherent user experience, expose more data, and become completely self-serve. Website visitors should be clearly informed on what data is available from the Library archives and how they may access the data. Access should be entirely through the website with payment collected automatically at the time of access. In addition to only providing access to the data, simple tools will be created to help users extract more value from their interactions with data on the website and provide justification for maintaining a membership. The self-serve portal will be created in three phases:

1. Enable new self-directed membership sign-ups and renewals with automatic access to all member benefits.
2. Enable purchase and automatic download of data bundles and products.
3. Enable purchase of individual data items; such as geophysical logs, LAS files, core photograph sets; and make these items deliverable asynchronously via a download link always available to a user so long as their account is active.

Upgrade core storage racking in the Library warehouse and organize cores to make room to receive newly drilled cores. Have staff reorganize warehouse space. Draft a long-term core storage plan with MNRF to deal with duplicate cores and overflow of core warehouse.

Promote the Trust as an information management organization for oil and natural gas exploration and production, fluid storage in geological formations or caverns, salt solution mining, groundwater, compressed air, carbon capture and storage, and other sub-surface sectors in Ontario and Canada.

Conduct a business development campaign targeting various Government of Ontario ministries and sector associations to promote the Library's services and systems expertise.

GIS services and products - provide the most up-to-date data available and develop a broad selection of products based on an expanding database of subsurface sources to offer members and clients. GIS and database building are an essential part of being able to offer clients the data they require to advance their business interests. This includes maintaining GIS systems and staff with expertise to operate those systems and respond efficiently to client requests. The role of GIS professionals at the Library will shift from focusing on one-on-one service to maintaining data available to all users through an on-line portal.



Appendix I

2022 Fees - Oil, Gas and Salt Resources Library

Membership Fees:

Annual fee – corporate	\$1,975/year
Annual fee – individual	\$690/year
Premium Geophysics and Raster Access	\$500

User Fees:

	Member	Non-Member
Use of Core & Cuttings Room	No fee	\$20/hour Plus, setup charge
Use of File & OGSRL Research Room	No fee	\$10/hour
Copying		
Standard copying charge (self-serve photocopy, custom staff e-mail, and pdf)	25¢/copy	50¢/copy
Geophysical log copying on paper bond	\$5/m	\$7.50/m
Plotting (D-Size sheet)	\$25	\$25
Research and Data Retrieval		
General Research/Retrieval by OGSRL Staff: (1-hour minimum)	\$30/hour	\$45/hour
Digital Data Research/Retrieval by OGSRL Staff: (1-hour minimum)	\$60/hour	\$90/hour
Digital Products and Services		
Ontario Digital Base Maps (GIS) <i>GIS (shape file) coverage of Southern Ontario.</i>	No fee	Not Available

Digital Surface Data (DBF) FREE at www.ogsrlibrary.com
Well location and historical information for over 26,000 well records.

Digital Subsurface Data (DBF)	\$4,000	\$6,975
Data Maintenance Updates	\$350	\$350

Digital tables with oil, natural gas, water, casing, logging and geological formation intervals.

Geophysical Logs
\$15.00/image (TIFF)
\$20.00/smart raster (depth calibrated TIFF)
\$25.00/LAS curve

Core Photos: \$15/box (set of three: dry, wet, UVF)

Maps

Pool & Pipelines of Southwestern Ontario \$60/map
Oil and gas pools, underground storage and major pipelines map at 1:400,000
(The pools and pipeline map will be updated and available for purchase on a yearly basis)

Well Location Maps:

E-size plot	\$50
D-size plot	\$25

Over 26,000 well locations plus roads, rivers and other culture.

Spacing Orders

Free PDF at www.ogsrlibrary.com
E-size plot - \$50.00

Sample Processing Fees - New Wells

Cuttings Bagged and Unwashed	\$3.90 per bag
	Minimum one bag per three metres or one bag per six metres in a horizontal segment.

Cuttings Washed and Vialled	\$2.60 per vial
	Minimum one vial per three metres or one vial per six metres in a horizontal segment.

Core Processing Fee

Delivered, not to specification	\$45/meter
Delivered, to Library specification	\$15/meter

Miscellaneous

Exclusive use of Core & Cuttings Room - \$300.00/day
Shipping & Handling - \$10 plus postage
Shipping & Handling applies to all products not picked up at the OGSRL

All fees are subject to applicable taxes.



Oil, Gas and Salt Resources Library

