



Ministry of Energy, Mines and Petroleum Resources

A Geothermal Geoscience Database for British Columbia



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Introduction

- **What has been done in other places**
- **What we have done in the past**
- **What we are doing now**



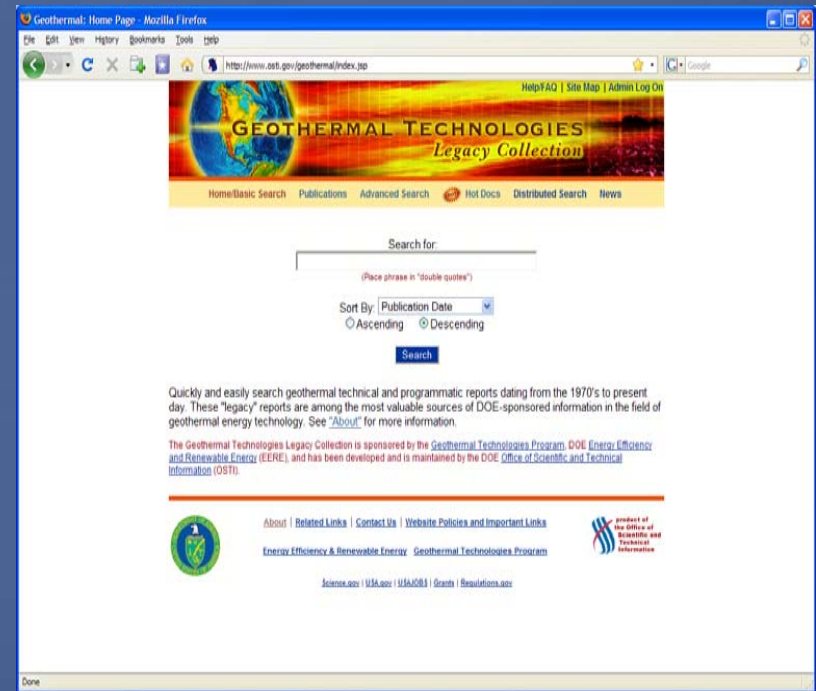
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What are other places doing?

- **Geothermal Technologies Legacy Collection**
- **Geothermal GIS at the Great Basin Center for Geothermal Energy**

Example of Document Search

- **Geothermal Technologies Legacy Collection**
- **DOE Studies from the 70s to present**
- **Journal citations**
- **DOE**
- **Free online**



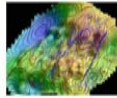
Example of a GIS

- Great Basin Geothermal GIS
- GIS data available online
- University of Nevada, Reno
- Free

Great Basin Center Regional GIS Data - Mozilla Firefox

GIS REGIONAL SPATIAL DATA DOWNLOAD


Unless otherwise specified, spatial data from the Great Basin Center for Geothermal Energy are all in Lambert Conformable Conic Projection



Projection: Lambert	Datum: NAD 27
Longitude of central meridian: -117	First Standard Parallel: 33°
Latitude of projection origin: 0°	Second Standard Parallel: 45°
False Easting: 0.0	False Northing: 0.0

INDEX TO REGIONAL GIS DATA:

GEOCHEMICAL DATA	GROUNDWATER DATA
GEODESIC DATA	LOCATION DATA
GEOLOGIC DATA	LAND STATUS DATA
GEOPHYSICAL DATA	GEO THERMAL FAVORABILITY MAPS
GEOTHERMAL DATA	GOOGLE EARTH GEOTHERMAL DATA

Location Data: Theme Name	Description	File Type	Download Spatial Data	View Metadata
 To View the Location data interactively, CLICK HERE NOTE: Not currently available using Netscape Browser				
Great Basin Outline	Outline of the Great Basin with added buffer zone	Shapefile (12 kb)	gboutline	FGDC
Great Basin Counties	Outline of Great Basin with county boundaries	Shapefile (59 kb)	gb_counties	FGDC
Great Basin Counties	Map showing areas outside of the	Shapefile		

What we have done in the past

- **Provincially – not a lot**
 - **Small amounts of data on MapPlace e.g. Locations of hot springs**
- **At the federal level Dr. Alan M. Jessop has compiled large amounts of data and references**



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What we are doing now

- **We are currently trying to create an online resource for BC geothermal data and information**
- **Collecting old files and data**
- **Compiling oil and gas data that may be useful for geothermal**



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Why?

- **To promote geothermal development in British Columbia**
- **We have had success in other projects with distributing data**
- **There is a demand for the project**



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Challenges

- **Locating the data**
- **Deciding/finding what's useful**
 - **Different people have different visions**
- **Gaining permission to use the data**
- **Keeping website up to date**



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What we have found so far

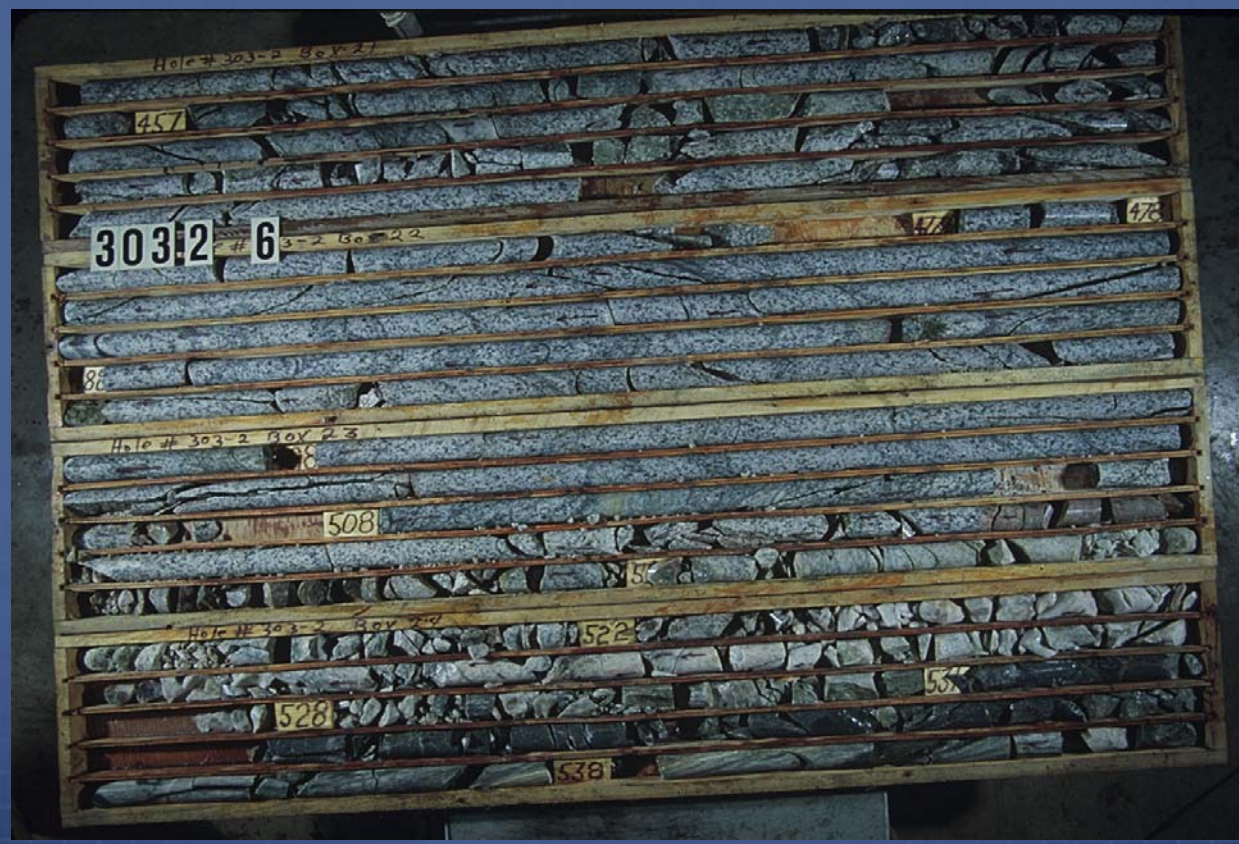
- **Reports in storage in our warehouse**
- **Reports in the basement of the GSC**
- **Oil and gas well data**
- **Data from previous studies**
- **Data from related databases**



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For example...





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Planned format

- **Start with downloadable data listed on the website (easiest and cheapest)**
- **If there is a demand and funding upgrade to online GIS**



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Next steps

- **Sorting through papers, reports, etc.**
- **Searching for more sources**
- **Digitizing**



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What do you want?

- **What data would you like to see?**
- **Do you have data/reports/information you feel should be added?**
- **What format do you envision?**