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**G&G and Technology Independent Consulting**

# RESOURCES FOR INDEPENDENTS

## FREE DATA AND SOFTWARE FOR GEOSCIENTISTS

SIPES and SPEE Joint Meeting

Houston Petroleum Club

February 15, 2018

**STEVE ADCOCK**

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MAKE WEB  
NOT WAR

OPEN SOURCE.  
OPEN DATA.  
OPEN LEARNING.  
SUPPORTING A BETTER AND OPEN WEB.  
OPEN \$PENDING

CAVEAT EMPTOR



# Welcome to the New Renaissance

aka The Technological Revolution    aka the Singularity



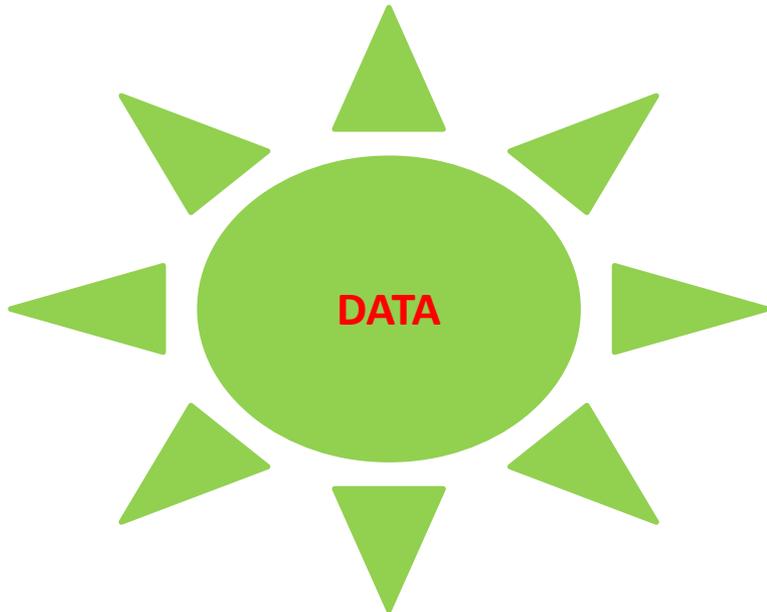
Net of a Million Lies



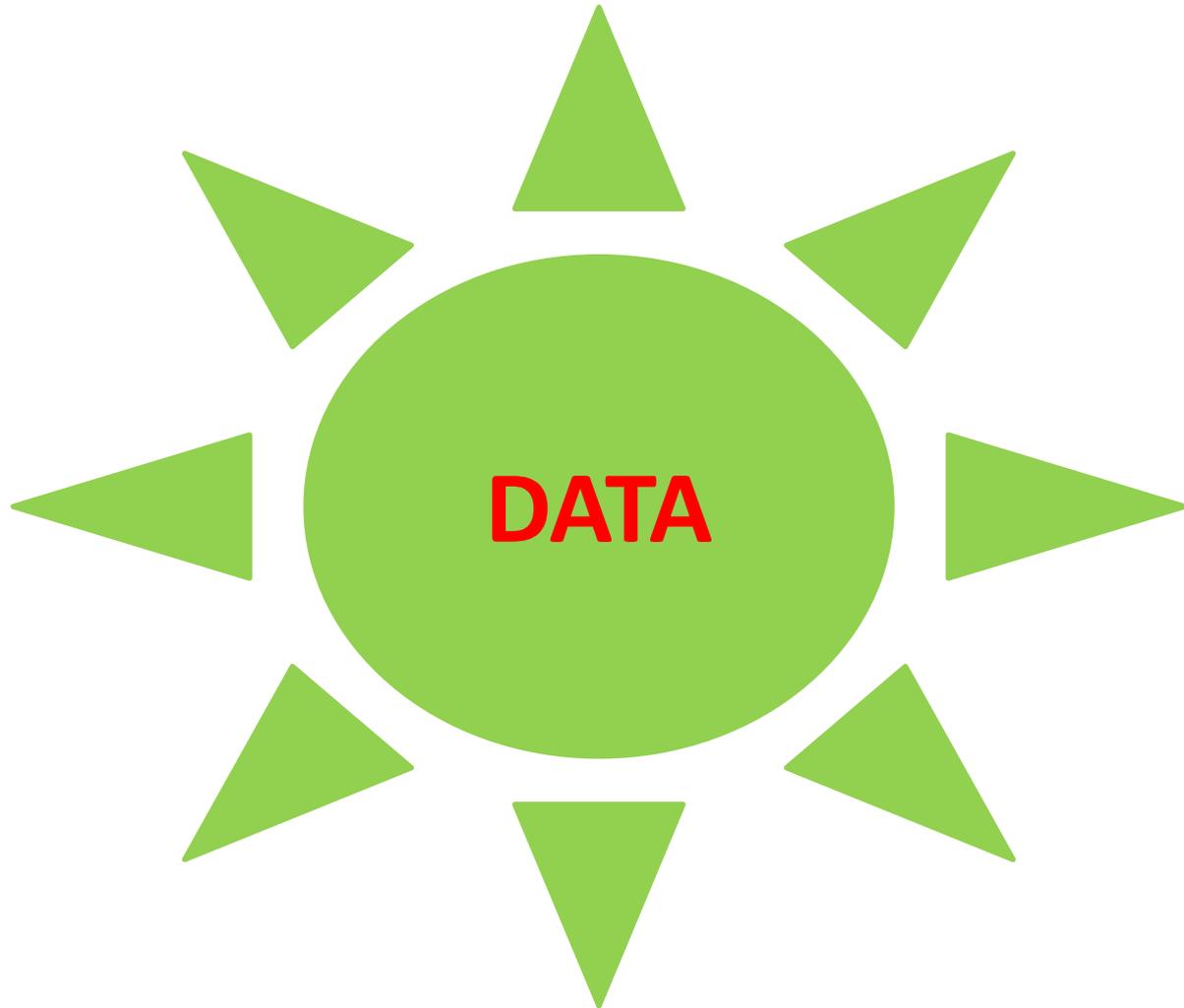
# GEOSCIENCE

## Drivers and Resources

Research Analysis Prospecting Analogs Presentations Marketing



# RESOURCES



# Well Data

# Well Data

- Cuttings & Cores
- Names, Locations, Status
- Logs
- Production
- Reports, Maps, Cross-Sections

# TEXAS

<http://igor.beg.utexas.edu/crc2/>

igor.beg.utexas.edu/crc2/

Apps 11 Places to Get a Fre gvSIG Desktop — Ast Learn analytics- Jigsa The Value of Visualiz: Open Knowledge Co Webinars | MEDEAn Open Knowledge Co

Integrated Core and Log Database  
Bureau of Economic Geology

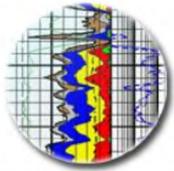
Click here to log in.  
Facility Filter: Any  
View Selected Items

BEG Core and Log Database > Home Show

## Welcome to the Bureau of Economic Geology Core and Log Database

This web application has been created to allow the public to quickly locate materials within the Bureau's extensive collection of geologic samples and geophysical logs. To begin searching for a particular type of material, please select an option from the menu below. You may also use the map on the right to browse for wells based on their geographic location.

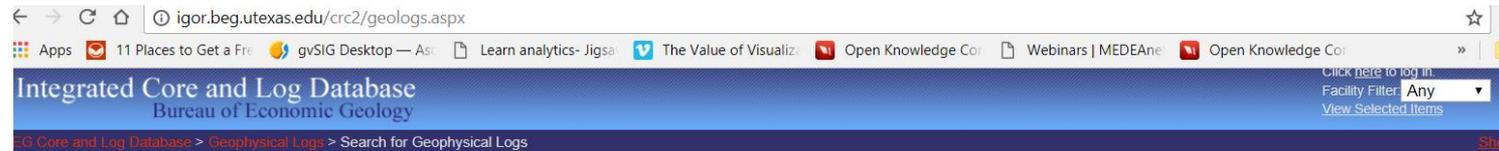
 Search for Geologic Samples

 Search for Geophysical Logs

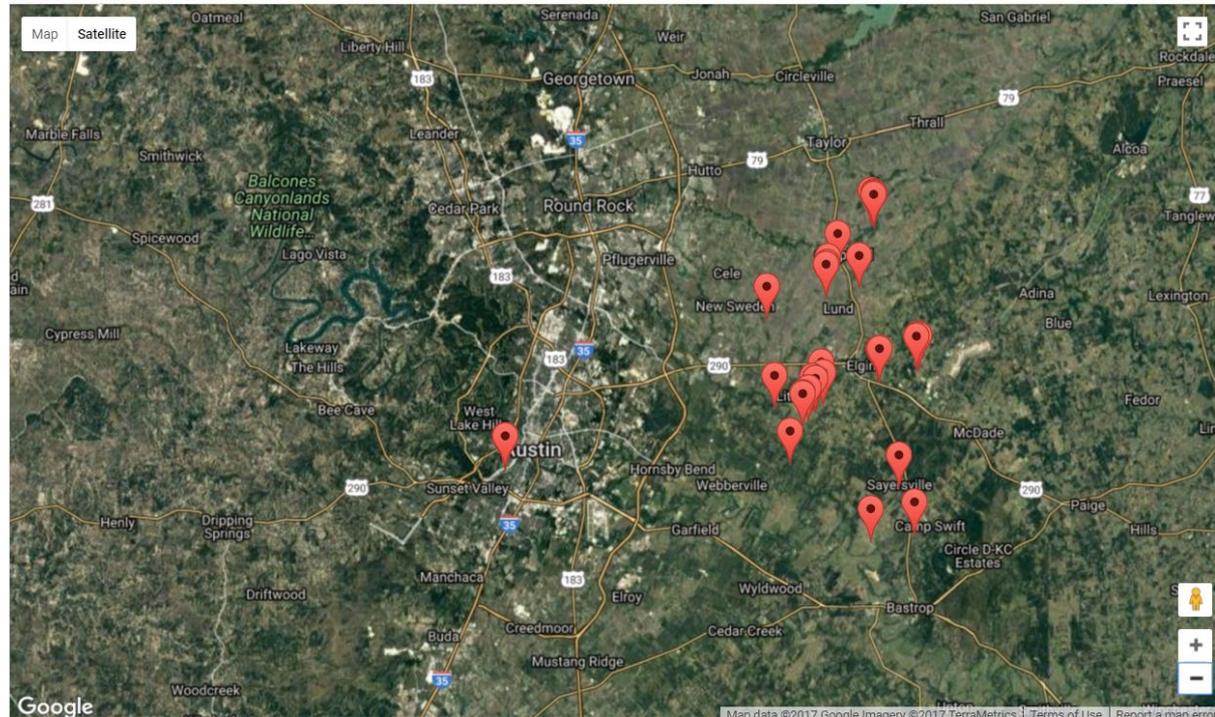
[UT Home](#) [BEG Home](#) [CRC Home](#) [Austin CRC](#) [Houston CRC](#) [Midland CRC](#) [Geophysical Log Facility](#) [Core and Log Database Home](#)

# TEXAS

<http://igor.beg.utexas.edu/crc2/geologs.aspx>



## Geophysical Log Search



# Texas Well Data: Cuttings & Cores

BEG-Bureau of Economic Geology

<http://www.beg.utexas.edu/about/facilities>

Austin - 700k boxes,

Houston - 900k boxes

Midland - 400k boxes

USGS <https://my.usgs.gov/crcwc/map>

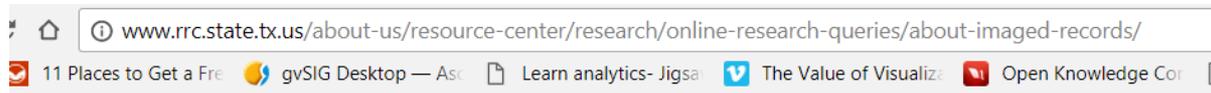
Well logs prior to July 2004 are available in paper format from the University of Texas Bureau of

Economic Geology's [Geophysical Log Facility](http://www.beg.utexas.edu/about/facilities/geophysical-log-facility)

<http://www.beg.utexas.edu/about/facilities/geophysical-log-facility>

# TEXAS RRC

## rrc.state.tx.us



[About Us](#) - [Oil & Gas](#) - [Alternative Fuels](#) - [Gas Services](#) - [Pipeline](#)

### [Launch Application](#)

Images of the dry hole records from 2000 to current include the Drilling Permit (form W-1) for wells permitted before M 1, 2005, as well as Plugging Reports (Form W-3), and Directional Surveys when required. (Note: This is an ongoing project and not all files are available for viewing at this time.)

Comments and questions about the Dry Hole Files application should be sent to [records@rrc.texas.gov](mailto:records@rrc.texas.gov).

## Oil & Gas Well Logs

### [Launch Application](#)

The Railroad Commission began imaging well logs received as a requirement of compliance with 16 TAC §3.16 in July 2004. Well logs may be searched by key fields, including API number, oil or gas field name or number, lease name or number, county, operator name, location information, or date range. An [inventory](#) of the well logs added to the database each month is available.

Well logs are stored and delivered in the TIFF file format, and a TIFF image viewer may be necessary to access these files. Please review the [FAQs](#) (Frequently Asked Questions) page for additional information about the TIFF file format and TIFF image viewers.

Well logs received by the Commission prior to July 2004 are available in paper format from the University of Texas Bureau of Economic Geology's [Geophysical Log Facility](#).

Comments and questions about the Well Log application should be sent to [records@rrc.texas.gov](mailto:records@rrc.texas.gov).

# TEXAS RRC



Profiles

## Well Log (WL) > Key Search

= wildcard (\*) permitted. No records found!

District	<input type="text"/> * Two character district required	Field Number	<input type="text"/> * Numeric only; leading zeroes will be automatically added
Field Name	<input type="text"/> * No punctuation; wildcards permitted	Lease/Gas ID	<input type="text"/> * Exact match/numeric only
API Number	<input type="text"/> * No punctuation; Exact match only	Lease Name	<input type="text"/> * No punctuation; wildcards permitted
Operator Name	<input type="text"/> * No punctuation except & and -; wildcards permitted	Well Number	<input type="text"/>
County Name	MONTGOMERY * No punctuation; Exact match only	County Number	<input type="text"/> * Three digits with leading zeroes
Survey Name	<input type="text"/> * No punctuation; Wildcards permitted	Survey Section Number	<input type="text"/> * Maximum 15 alphanumeric characters
Alternate Survey Name	<input type="text"/> * No punctuation except & and -; wildcards permitted	Abstract Number	<input type="text"/> * Maximum 15 alphanumeric characters; No punctuation except -
Scan Date To Scan Date From	From: <input type="text"/> To: <input type="text"/> * MM/DD/YYYY format		

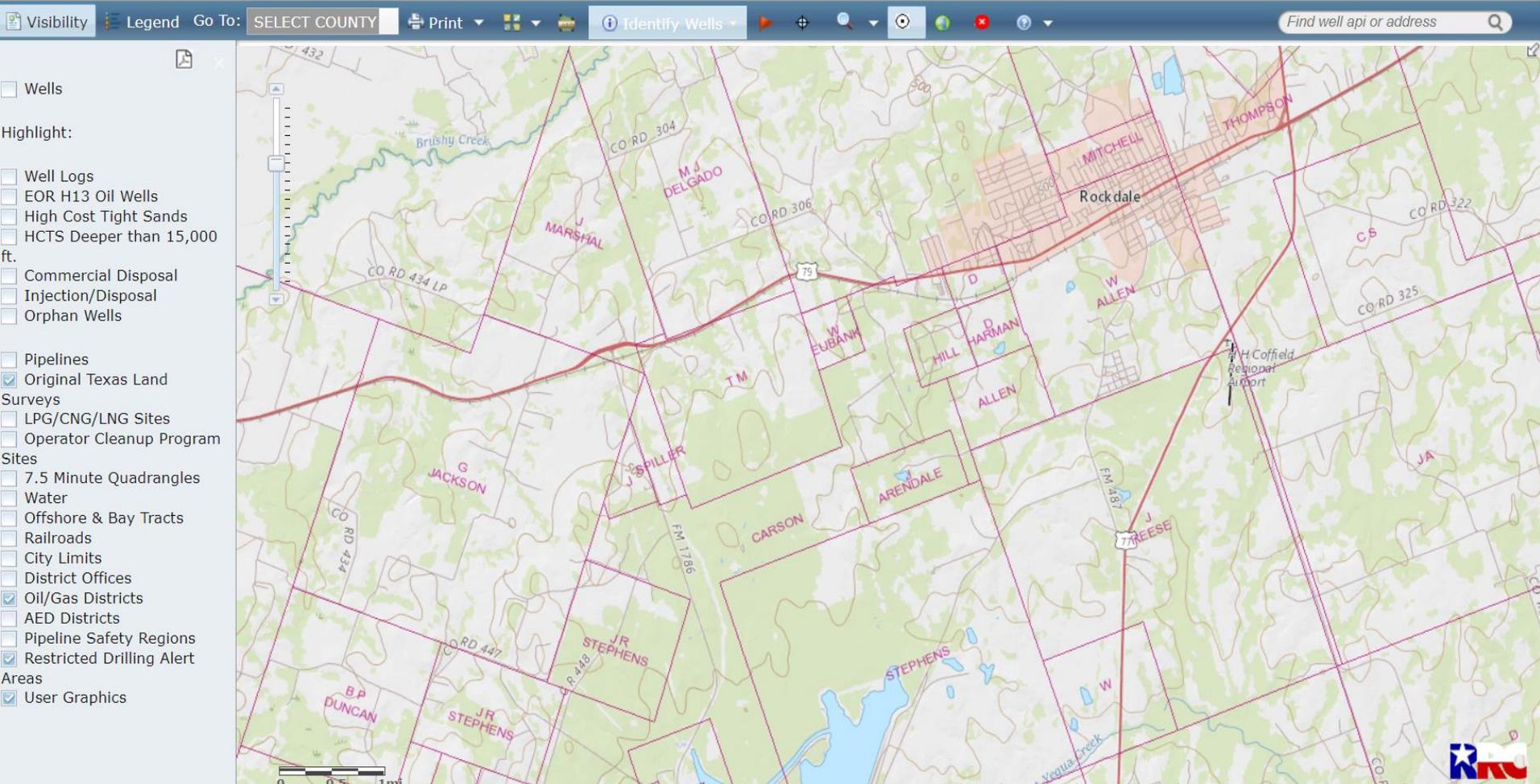
feedback

Search Clear



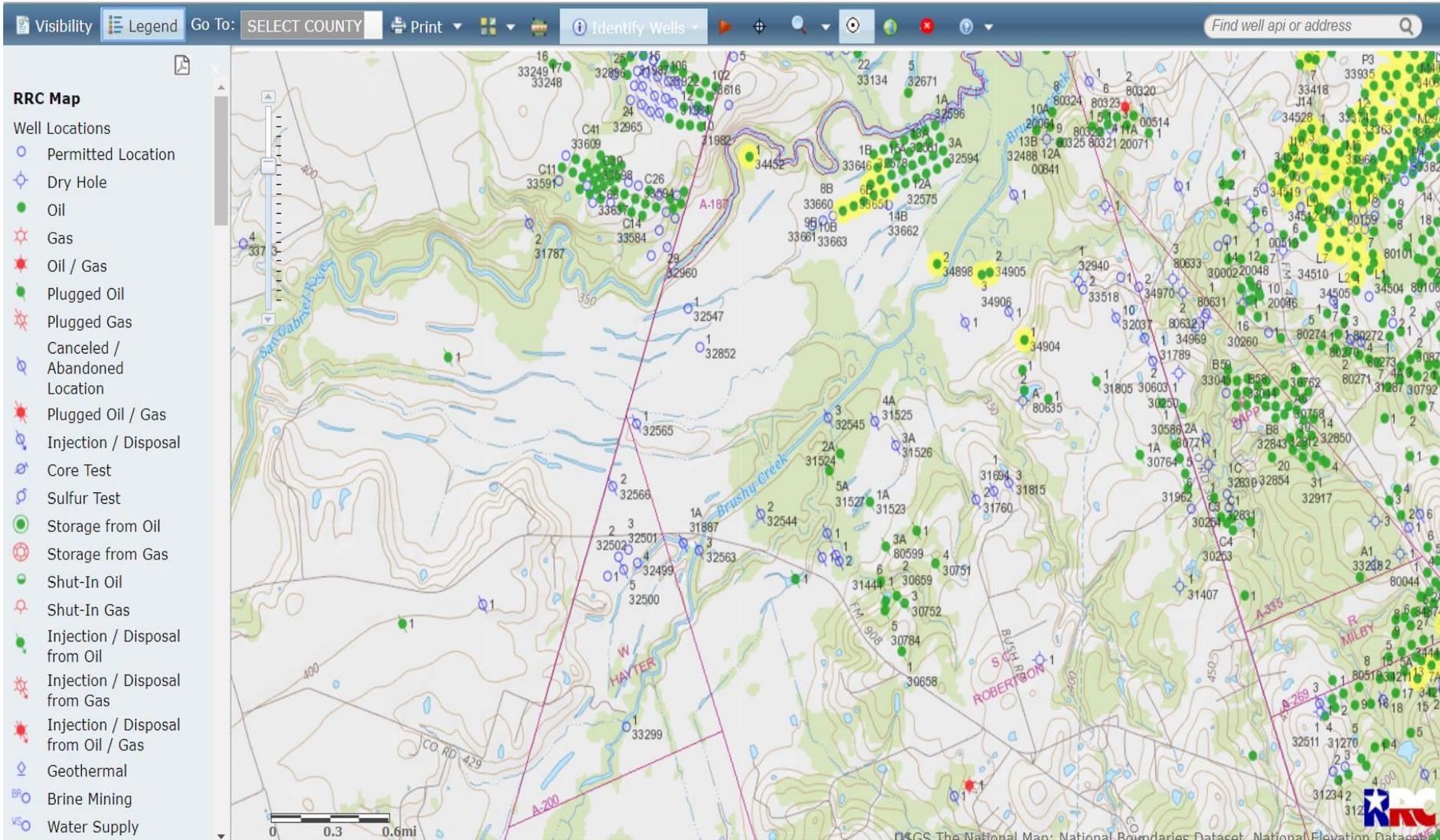
# TEXAS RRC GIS

<http://www.gisp.rrc.texas.gov/GISViewer2/>

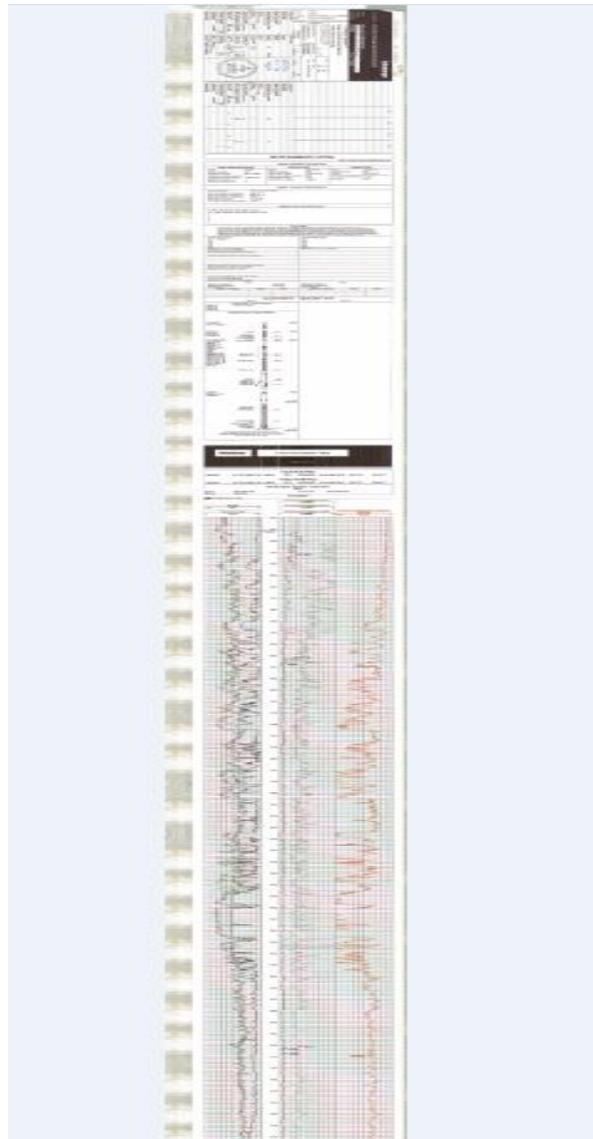


# TEXAS RRC GIS

<http://www.gisp.rrc.texas.gov/GISViewer2/>



# TEXAS Well Log Images



# Production Data

<http://webapps.rrc.state.tx.us/PDQ/home.do>



ONLINE SYSTEM

## Oil & Gas Production Data Query

Production Data

[FAQs](#)

[PDQ Help](#)

General Production Query

Specific Lease Query

### Production Data

To find production data, there are two types of searches that you can do.

- **[General Production Query](#)**  
Use the General Production Query to find oil and gas production information for a geographic area of Texas. You are looking for production information for a geographic area of Texas.
- **[Specific Lease Query](#)**  
If you are searching for information about a particular lease and you know the lease name, for example, you can search for Lease Names.

# TEXAS DATA

- Integrated Core and Log Database

<http://igor.beg.utexas.edu/crc2/>

- RailRoad Commission logs and production

<http://www.rrc.state.tx.us/about-us/resource-center/research/online-research-queries/imaged-records-menu/>

[www.gisp.rrc.texas.gov/GISViewer2](http://www.gisp.rrc.texas.gov/GISViewer2)

- USGS cores <https://my.usgs.gov/crcwc/map>
- University of Texas, Texas A&M, LSU

# LOUISIANA

<http://www.sonris.com/>

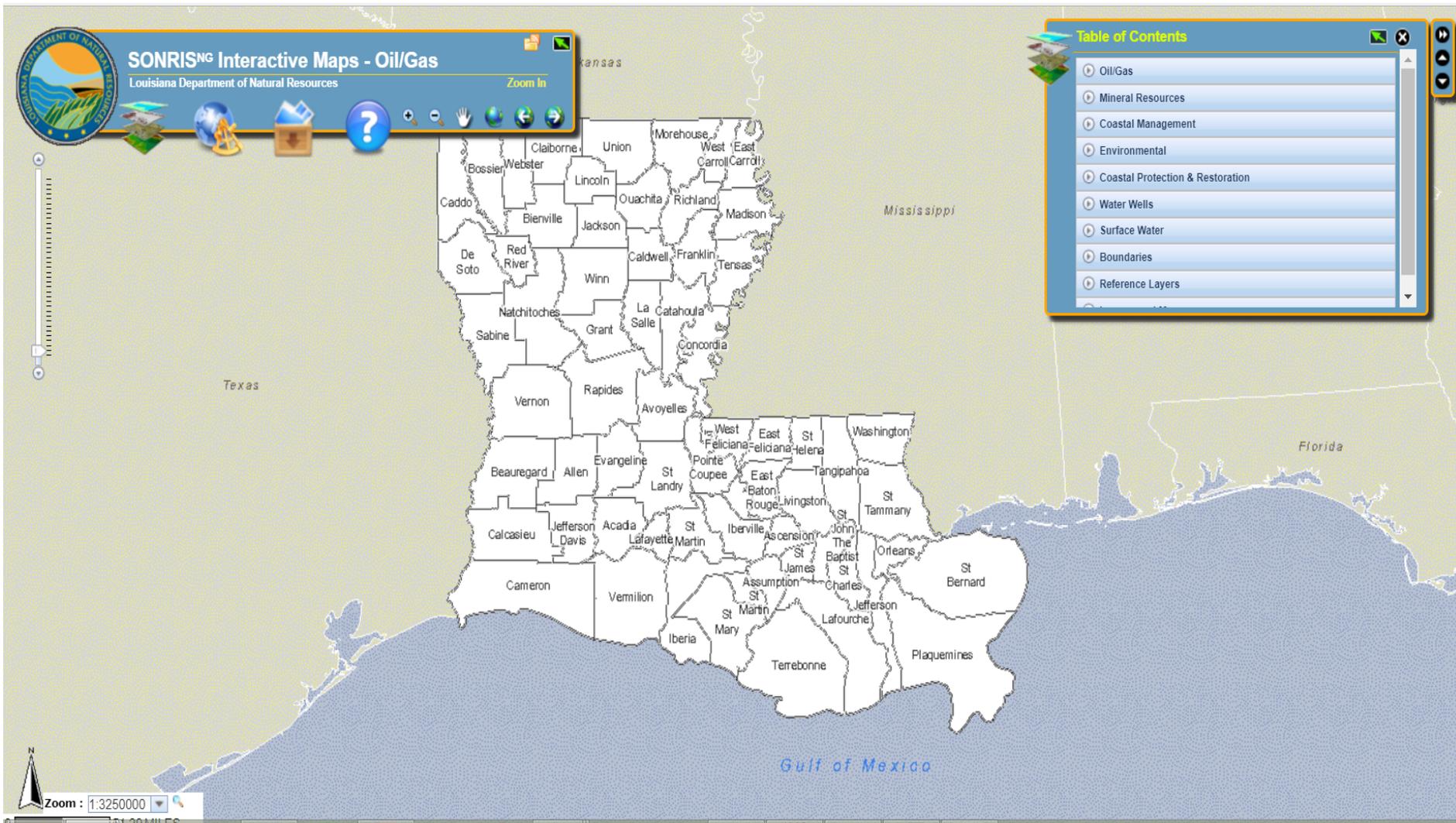


**NOTE** NOW available for users of SONRIS, the Louisiana DNR Data Subscription Service. Effective now, you can purchase a subscription to the SONRIS data and be able to get a monthly download of all the data for integration into your own databases and application. View the details at [http://sonris-www.dnr.state.la.us/Data\\_Subscription\\_Service\\_Announcement.pdf](http://sonris-www.dnr.state.la.us/Data_Subscription_Service_Announcement.pdf)

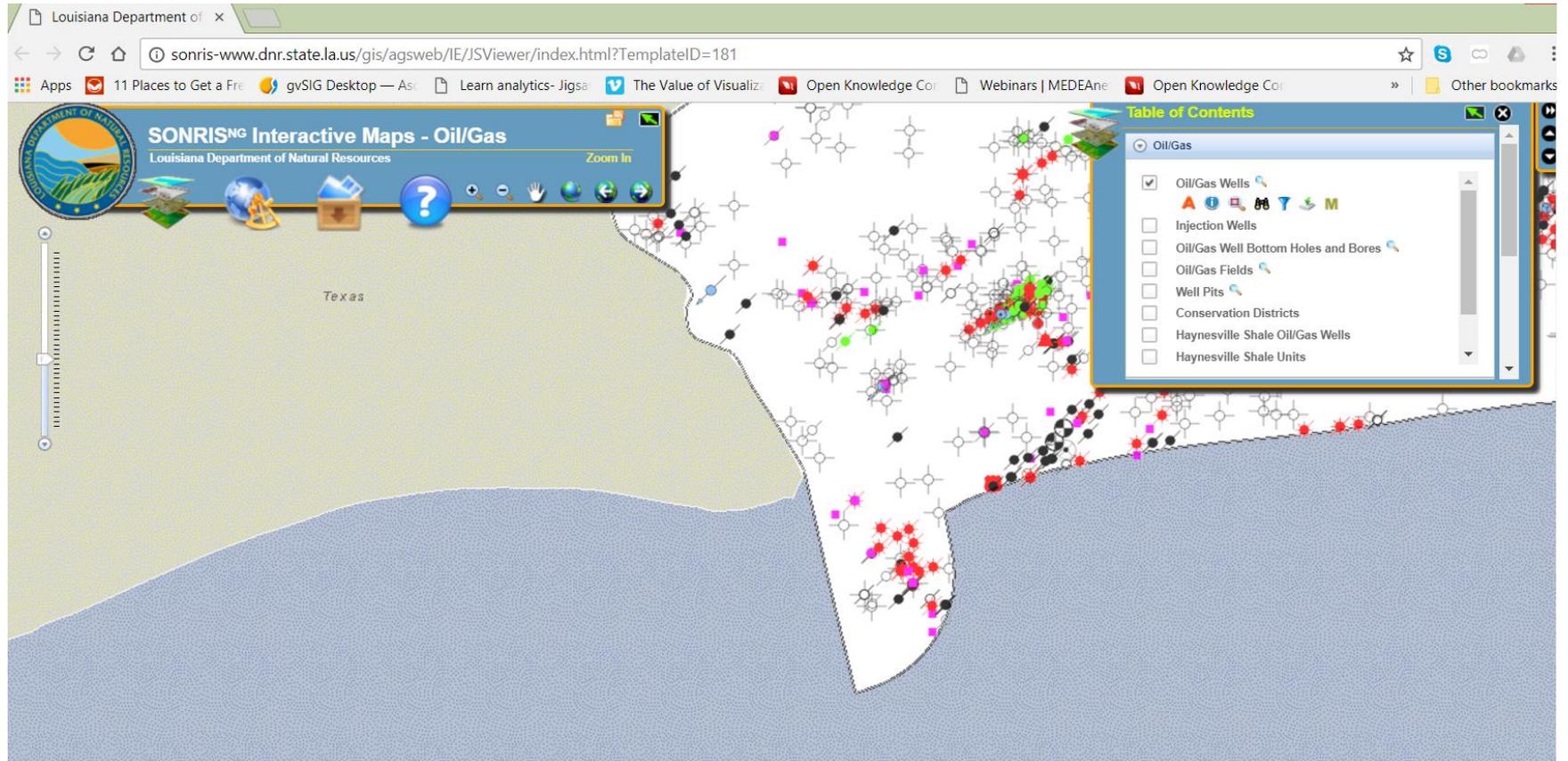
<p><b>GIS Access</b> Retrieve information using interactive, geographically oriented, map capabilities, and select from a variety of layers of backgrounds.</p>	<p><b>Data Access</b> Oil, Gas &amp; Ground Water information and more at your finger tips.</p>	<p><b>Document Access</b> Millions of documents in various formats readily available for view and print.</p>	<p><b>Disaster Preparation Reports:</b> Helpful reports for hurricane season. For use of Reports on Demand, view the tutorial.</p>
<p><b>Legacy Lawsuits</b> Helpful reports for Legal cases. For use of Reports on Demand</p>	<p><b>Dashboard</b> Click here for oil &amp; gas charts and more.</p>	<p><b>CES Inspections</b> Facility Lease &amp; Orphan Well Inspections.</p>	<p><b>Data Subscription Service</b> <span>NEW</span> Get a monthly download of all the data for integration into your databases and application.</p>
<p><b>Online Well Log Submission</b> Submit your Well Log electronically. Click Here to view preliminary guidelines &amp; training for submission.</p>	<p><b>Online Production Reporting</b> Report oil &amp; gas online</p>	<p><b>Online Royalty Reporting</b> Report mineral royalty online, refer to Tutorial for instructions</p>	<p><b>Online UIC Reporting</b> Report UIC-10, UIC-24, UIC-33/34, and UIC-WH1 electronically</p>
<p><b>Online Surface Water</b> Apply and track surface water application online visit our Louisiana Surface Water Management Program</p>	<p><b>Well Test/Inactive Reports Submission</b> Submit your Well Test/Inactive Report electronically. Click on User Guide for detail instructions</p>	<p><b>Online OR1 Submission</b> Submit your OR1 application electronically. Click on User Guide for detail instructions</p>	<p><b>Invoice Payments</b> Pay invoices online; invoice number and security code are needed</p>
<p><b>Tract Nominations</b> Click here for detailed instructions for online tract nomination</p>			
<p><b>UIC Online Data Entry Reports</b> Click here for UIC online data entry reports</p>	<p><b>Well Test Online Data Entry Reports</b> Click here for Well Test online data entry reports</p>	<p><b>OR1 Online Data Entry Reports</b> Click here for OR1 online data entry reports</p>	
<p><b>Contact/Data Request/Help</b> Click here to contact us or submit a request for data</p>	<p><b>FAQ</b> Frequently Asked Questions and more....</p>	<p><b>Downloads</b> Click here to get required components</p>	

# LOUISIANA

<http://sonris-www.dnr.state.la.us/gis/agsweb/IE/JSViewer/index.html?TemplateID=181>



# LOUISIANA



# LOUISIANA

sonris-www.dnr.state.la.us/gis/agsweb/IE/JSViewer/index.html?TemplateID=181

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**SONRIS<sup>NG</sup> Interactive Maps - Oil/Gas**  
Louisiana Department of Natural Resources

Identify Features

**Table of Contents**

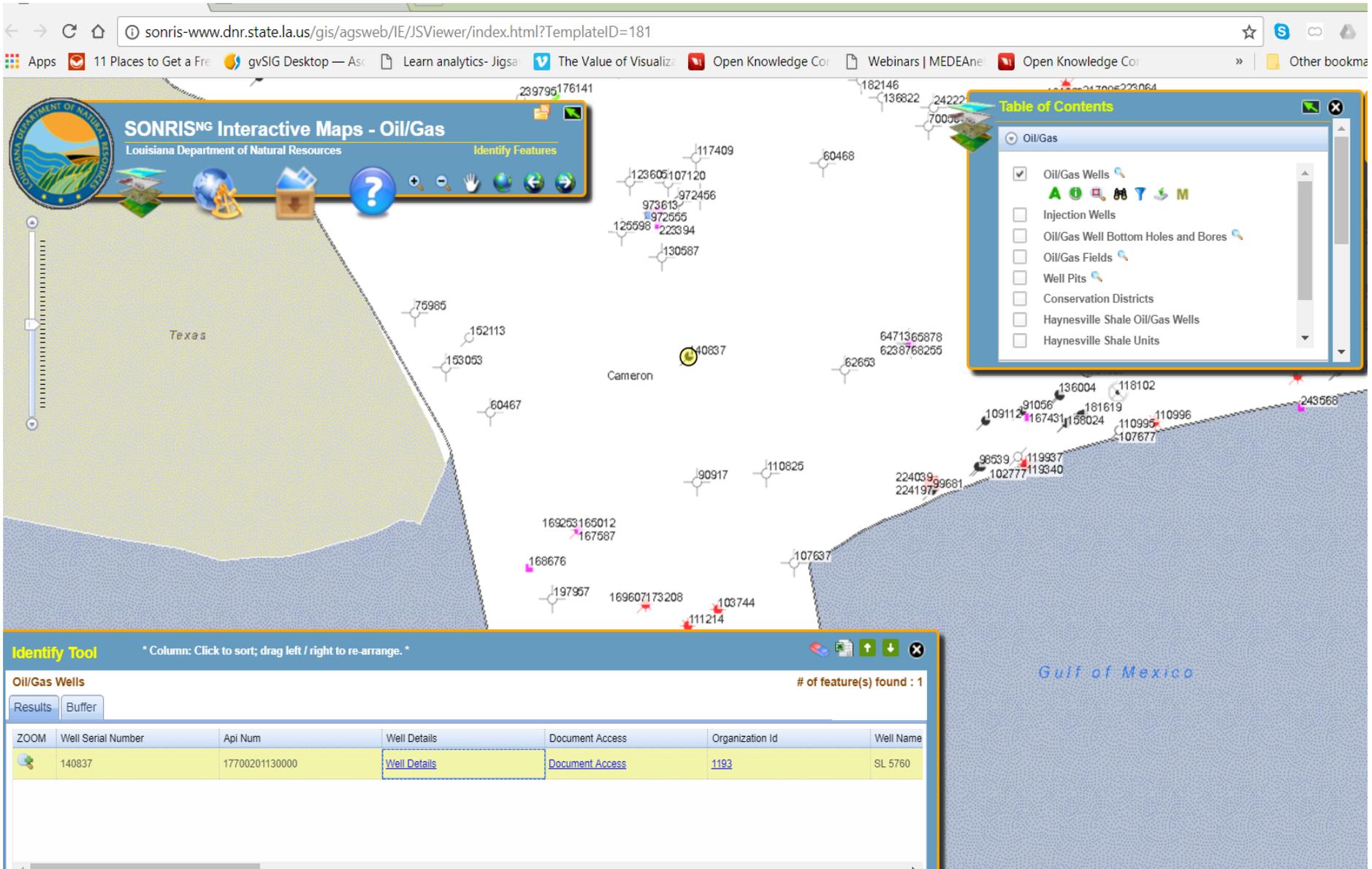
- Oil/Gas
  - Oil/Gas Wells
  - Injection Wells
  - Oil/Gas Well Bottom Holes and Bores
  - Oil/Gas Fields
  - Well Pits
  - Conservation Districts
  - Haynesville Shale Oil/Gas Wells
  - Haynesville Shale Units

**Identify Tool** \* Column: Click to sort; drag left / right to re-arrange. \*

Oil/Gas Wells # of feature(s) found : 1

Results Buffer

ZOOM	Well Serial Number	Api Num	Well Details	Document Access	Organization Id	Well Name
	140837	17700201130000	<a href="#">Well Details</a>	<a href="#">Document Access</a>	1193	SL 5760



# LOUISIANA

ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=140837

Apps 11 Places to Get a Fre gvSIG Desktop — Asc Learn analytics- Jigsa The Value of Visualiz Open Knowledge Cor Webinars | MEDEAnet Open Knowledge Cor



[Back to Search](#) [Print this page](#)

Page 1 of 1. Search returned 4 documents.

Row	Alt View	Info	Document	Description	Pages	WellSerialNumber	CreateDate	Date	DocumentType
1	<a href="#">TIF</a>	<a href="#">i</a>	<a href="#">D</a>		12	140837	9/18/2009 1:21PM	9/12/1972 12:00AM	WELL FILE HISTORIC
2	<a href="#">TIF</a>	<a href="#">i</a>	<a href="#">D</a>		1	140837	10/4/2009 12:08AM	9/12/1972 12:00AM	WELL PERMIT TO DRILL/AMEND HISTORIC
3	<a href="#">TIF</a>	<a href="#">i</a>	<a href="#">D</a>	INDUCTION ELECTRICAL	1	140837	8/2/2009 8:27PM		WELL LOG
4	<a href="#">TIF</a>	<a href="#">i</a>	<a href="#">D</a>	INDUCTION ELECTRICAL	1	140837	8/1/2009 2:58AM		WELL LOG

# LOUISIANA

## Well Information

### Review Well Information

#### WELLS

SERIAL	WELL NAME	WELL NUM	ORG ID	FIELD	PARISH	PROD TYPE	SEC	TWN	RGE	EFFECTIVE DATE	API NUM
140837	SL 5760	001	1193	9733	12	00	000	000	000	12/01/1976	17700201130000

PRMT DATE	SPUD DATE	STAT DATE	ST CD
09/12/1972	09/25/1972	10/26/1972	30

#### WELL SURFACE COORDINATES

Surface Longitude	Surface Latitude	Lambert X	Lambert Y	Ground Elevation	Zone	Datum
93-47-33.36	29-42-7.919	1219283	384944	0	S	NAD-27

#### WELL SURFACE COORDINATES GENERATED BY DNR

UTMX 83	UTMY 83	LONGITUDE 83	LATITUDE 83
423311.36766304	3286074.78196509	-93.79276437	29.7024206

#### WELL BOTTOM HOLE COORD

EFFECTIVE DATE	END DATE	PLUGBACK TOTAL DEPTH	TRUE VERTICAL DEPTH	MEASURED DEPTH	LAT DEG	LAT MIN	LAT SEC	LONG DEG	LONG MIN	LONG SEC	COORDINATE SOURCE	LAMBERT X	LAMBERT Y	ZONE	COORDINATE SYSTEM
09/01/1972	12/01/1976		0	13000							03	0	0	01	

#### WELL HISTORY

SERIAL	WELL NAME	WELL NUM	ORG ID	FIELD	ST CD	PT	WELL CLASS	EFF DATE	END DATE	STAT DATE
140837	SL 5760	001	1193	9733	30	00		12/01/1976		10/26/1972
140837	SL 5760	001	1193	9733	01	00		09/01/1972	12/01/1976	09/12/1972

#### COUT INFO

REPORT DATE	WELL STATUS	MEASURED DEPTH	TRUE VERT DEPTH	DETAIL
-------------	-------------	----------------	-----------------	--------

#### PERFORATIONS

SERIAL NUM	COMPLETION DATE	UPPER PERF	LOWER PERF	SANDS	RESERVOIR
------------	-----------------	------------	------------	-------	-----------

#### WELL TESTS

RPT TYP	TEST DATE	RPT DATE	OIL POT	COND	GAS DEL	WATER	BSW%	FLOW PRES	SHUTIN PRES	CHOKE	UPPER PERF	LOWER PERF	BOT HOLE PRES
---------	-----------	----------	---------	------	---------	-------	------	-----------	-------------	-------	------------	------------	---------------

#### WELL ALLOWABLES

EFFECTIVE DATE	END DATE	LUW CODE	LUW TYPE CODE	ALLOWABLE	ESTIMATED POTENTIAL	CURRENT ALLOWABLE TYPE
----------------	----------	----------	---------------	-----------	---------------------	------------------------

#### EASE UNIT/WELL PRODUCTION

RPT DATE	LUW CODE	STORAGE FAC	DOC USE	WELL CNT	OPENING STK	OIL PROD(BBL)	GAS PROD(MCF)	DISPOSITION	CLOSING STK	PARISH
----------	----------	-------------	---------	----------	-------------	---------------	---------------	-------------	-------------	--------

#### CASING

COMPLETION DATE	CASING SIZE	WELLBORE SIZE	CASING WEIGHT	UPPER SET DEPTH	LOWER SET DEPTH	CEMENT SACKS	TEST PRESSURE	HOURS UNDER PRESSURE	TEST DATE	CASING PULLED	CREATION PROCESS
11/10/1972	2600	2600	0	0	182	0	0	0			CASING TEST
11/10/1972	0958	1214	43.5	0	9694	2900	2000	.5	10/09/1972		CASING TEST
11/10/1972	1338	1712	61	0	3033	2700	2000	.5	09/28/1972		CASING TEST

#### WELL PLUG AND ABANDON

# LOUISIANA

[ucmwww.dnr.state.la.us/ucmsearch/UCMRedir.aspx?url=http%3a%2f%2fdnrucm%2fucm%2fgroups%2fconservation%2fdocuments%2fooc%2f167275.pdf](http://ucmwww.dnr.state.la.us/ucmsearch/UCMRedir.aspx?url=http%3a%2f%2fdnrucm%2fucm%2fgroups%2fconservation%2fdocuments%2fooc%2f167275.pdf)

laces to Get a Fre  gvSIG Desktop — Asc  Learn analytics- Jigsaw  The Value of Visualiz:  Open Knowledge Cor  Webinars | MEDEAne  Open Knowledge Co



# LOUISIANA DATA

- <http://lsu.edu/lgs/resource-center.php>
- Cores and pdf spec sheets from the Clyde Moore and Bouma days.
- Rent space with core laid out for \$300/day including microscope and facilities use.
- Patrick O'Neal with La Geo Survey 225-578-8590 and DNR → Dept of Natural Resources, charged with older logs 1930- ~1980. No online depository, pay \$15/log and they'll scan them and send them to you

# US Open Data

# Data.gov

The image shows a screenshot of the Data.gov website. At the top, there is a navigation bar with the Data.gov logo and links for DATA, TOPICS, IMPACT, APPLICATIONS, DEVELOPERS, and CONTACT. Below this is a blue banner with the text "The home of the U.S. Government's open data" and a sub-header "Here you will find data, tools, and resources to conduct research, develop web and mobile applications, design data visualizations, and more." A central "GET STARTED" button is present, with a search bar below it containing the text "Manufacturing & Trade Inventories & Sales". Below the search bar is a "BROWSE TOPICS" section with a grid of 14 icons representing various categories: Agriculture, Clean, Commerce, Economic, Education, Energy, Finance, Health, Land Use, Manufacturing, Marine, Open, Public Safety, and Science & Research. At the bottom, there is a blue bar with the text "PUBLISHED".

DATA.GOV

DATA TOPICS IMPACT APPLICATIONS DEVELOPERS CONTACT

The home of the U.S. Government's open data

Here you will find data, tools, and resources to conduct research, develop web and mobile applications, design data visualizations, and more.

GET STARTED  
(SEARCH | LOGIN | REGISTER)

Manufacturing & Trade Inventories & Sales

BROWSE TOPICS

Agriculture Clean Commerce Economic Education Energy Finance

Health Land Use Manufacturing Marine Open Public Safety Science & Research

PUBLISHED

# NOAA

National Oceanographic  
and Atmospheric  
Administration

# NOAA

<https://gis.ncdc.noaa.gov/maps/>

NCEI Map Viewer

Layers Results

NOAA NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Surface Maps Time-Related Maps Climate Maps All Maps

Annual Observational Data

Climate at a Glance

Climate at a Glance - Alaska

Climate Indices

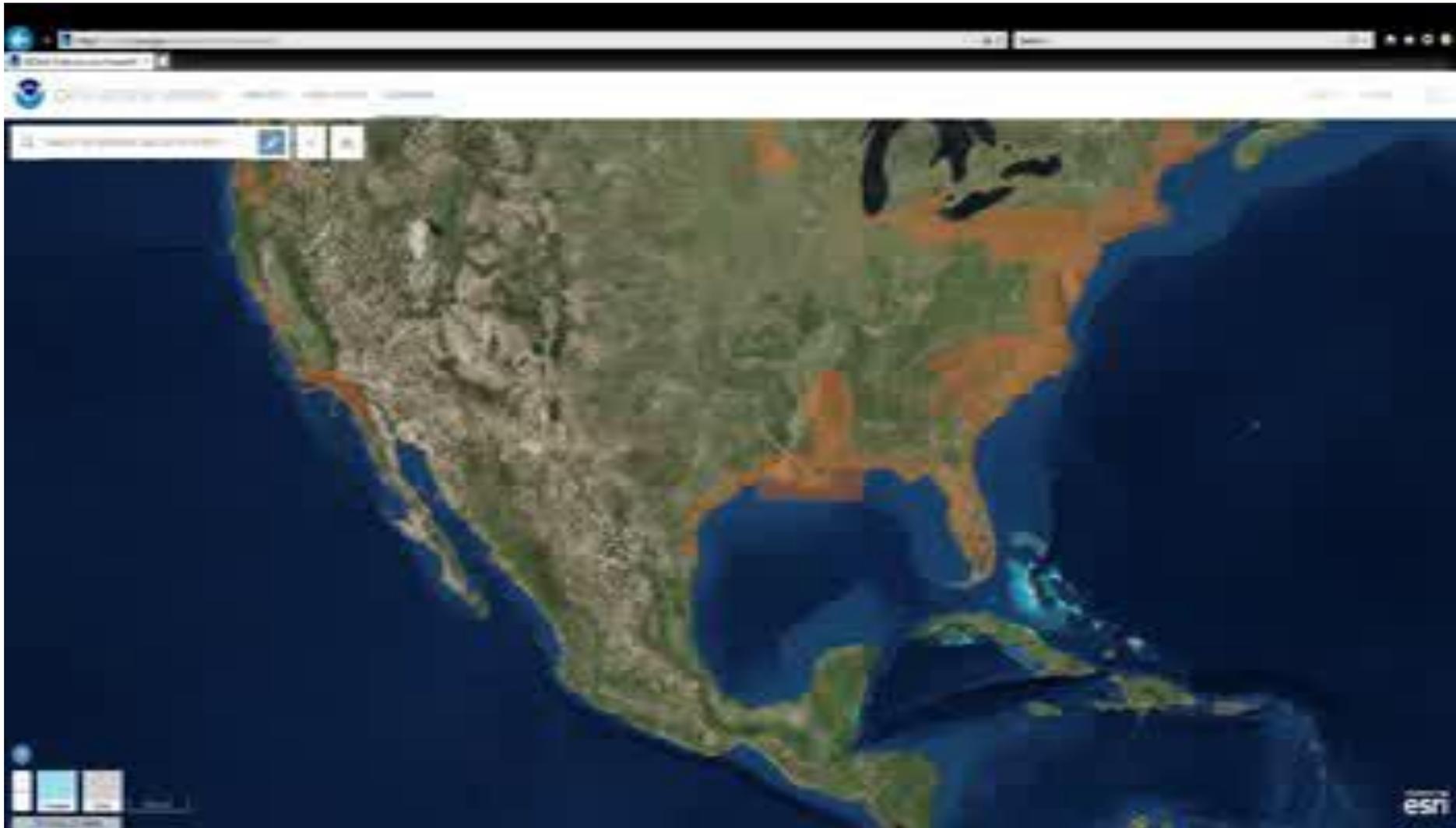
Climate Indices - Beta

Daily Observational Data

Maintain the current map view/location when switching between maps

1000km  
600mi

# NOAA

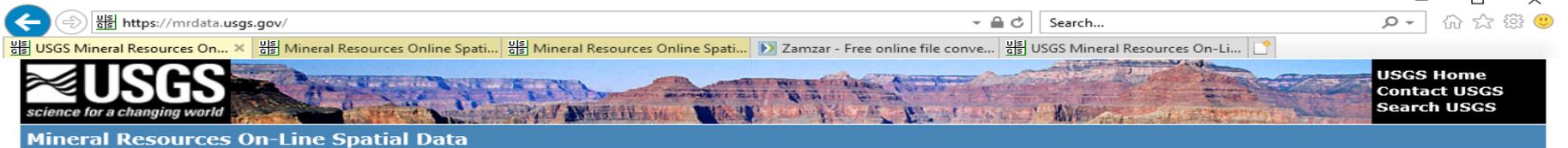


# USGS

United States Geological  
Society

# USGS Mineral Resources Online Data

## <https://mrdata.usgs.gov/>



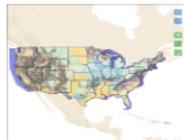
### Mineral Resources Online Spatial Data

Interactive maps and downloadable data for regional and global [Geology](#), [Geochemistry](#), [Geophysics](#), and [Mineral Resources](#)

Map interfaces (click to collapse or expand)



Full-screen



Conterminous US



Global



Alaska

#### Scientific topics

[Mineral resources](#)

[Geologic data](#)

[Geochemistry](#)

[Geophysics](#)

[Geochronology](#)

# Mineral Resources Online Data

<https://mrdata.usgs.gov/geology/state/map-us.html#home>

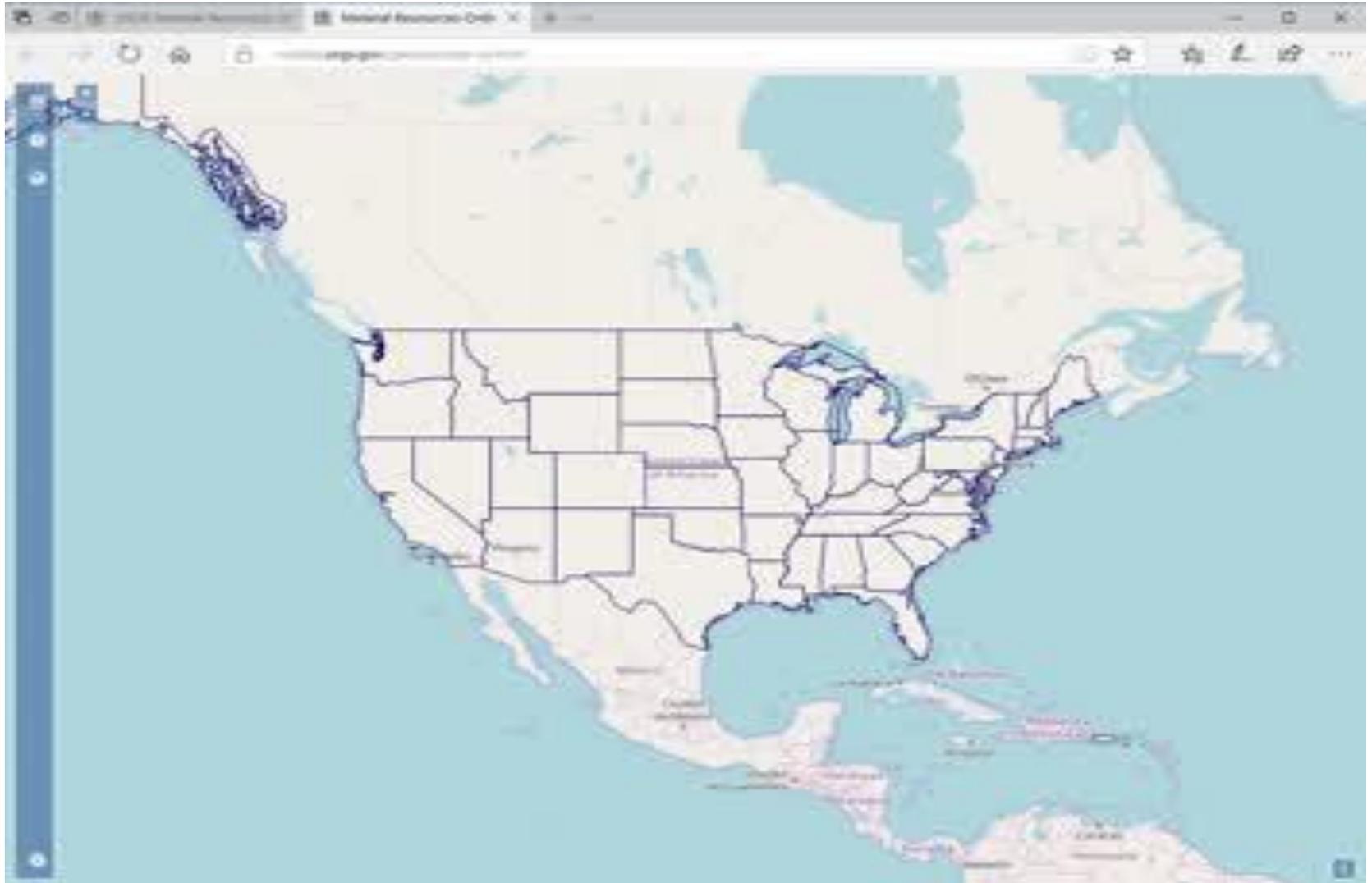
The screenshot displays the web application interface for Mineral Resources Online Data. The browser address bar shows the URL <https://mrdata.usgs.gov/geology/state/map-us.html#home>. The main content area features a map of the United States with various geological data overlays, including shaded relief and geologic maps. The left sidebar contains a control panel with the following sections:

- Geologic maps**
  - Geologic maps
  - Geologic contacts
  - Alaska geology
  - Hawaii geology
  - Puerto Rico geology
- Geographic reference**
  - OpenStreetMap
  - Shaded relief
  - US States
  - US Counties
  - US county names
  - USGS map quadrangles

At the bottom of the sidebar, there is a section titled "Need more?" with the text: "You can View, Download, and Understand this data source at <https://MRData.usgs.gov/>."

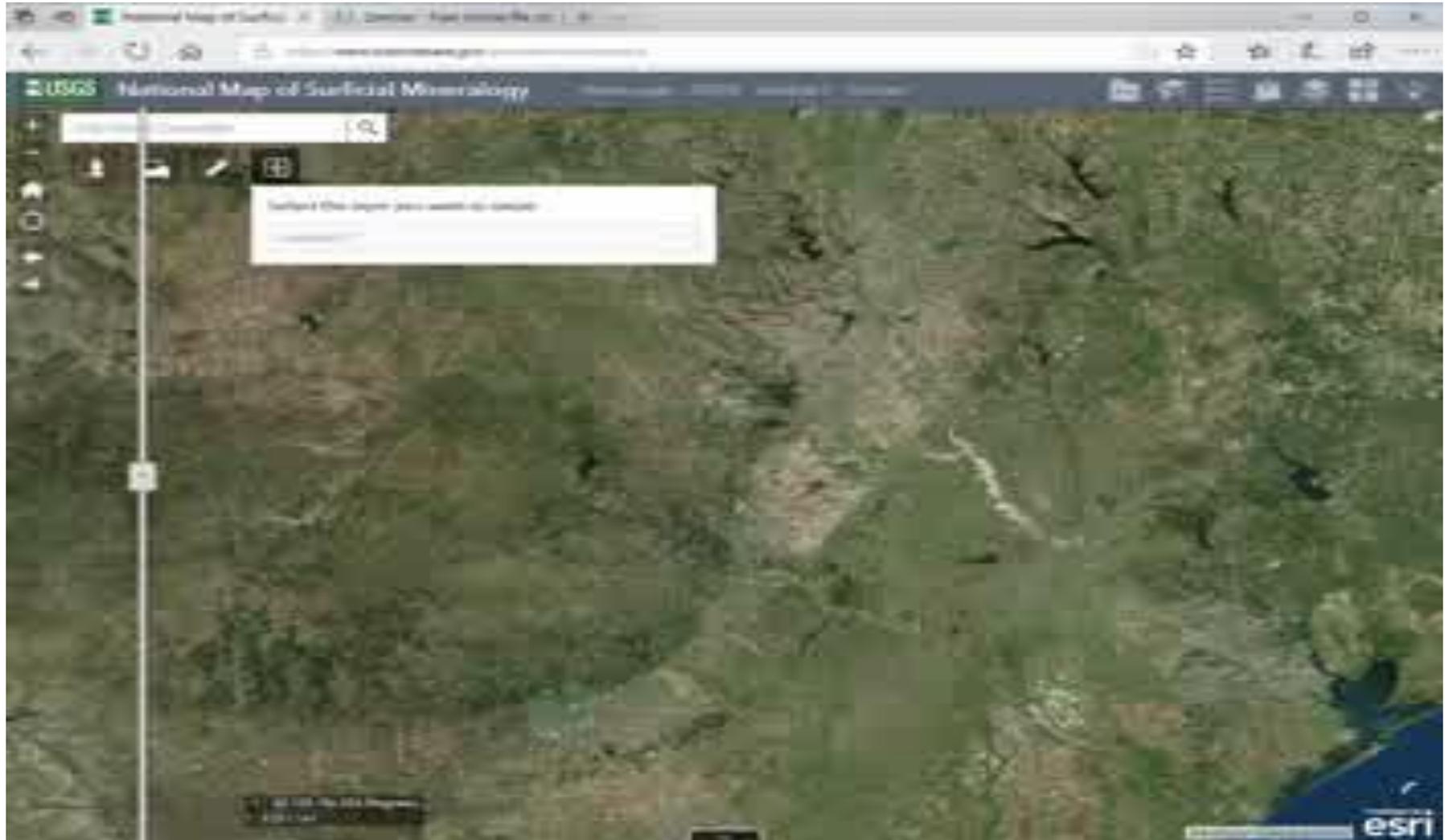
# USGS Mineral Resource Map Viewer

<https://mrdata.usgs.gov/general/map-us.html>



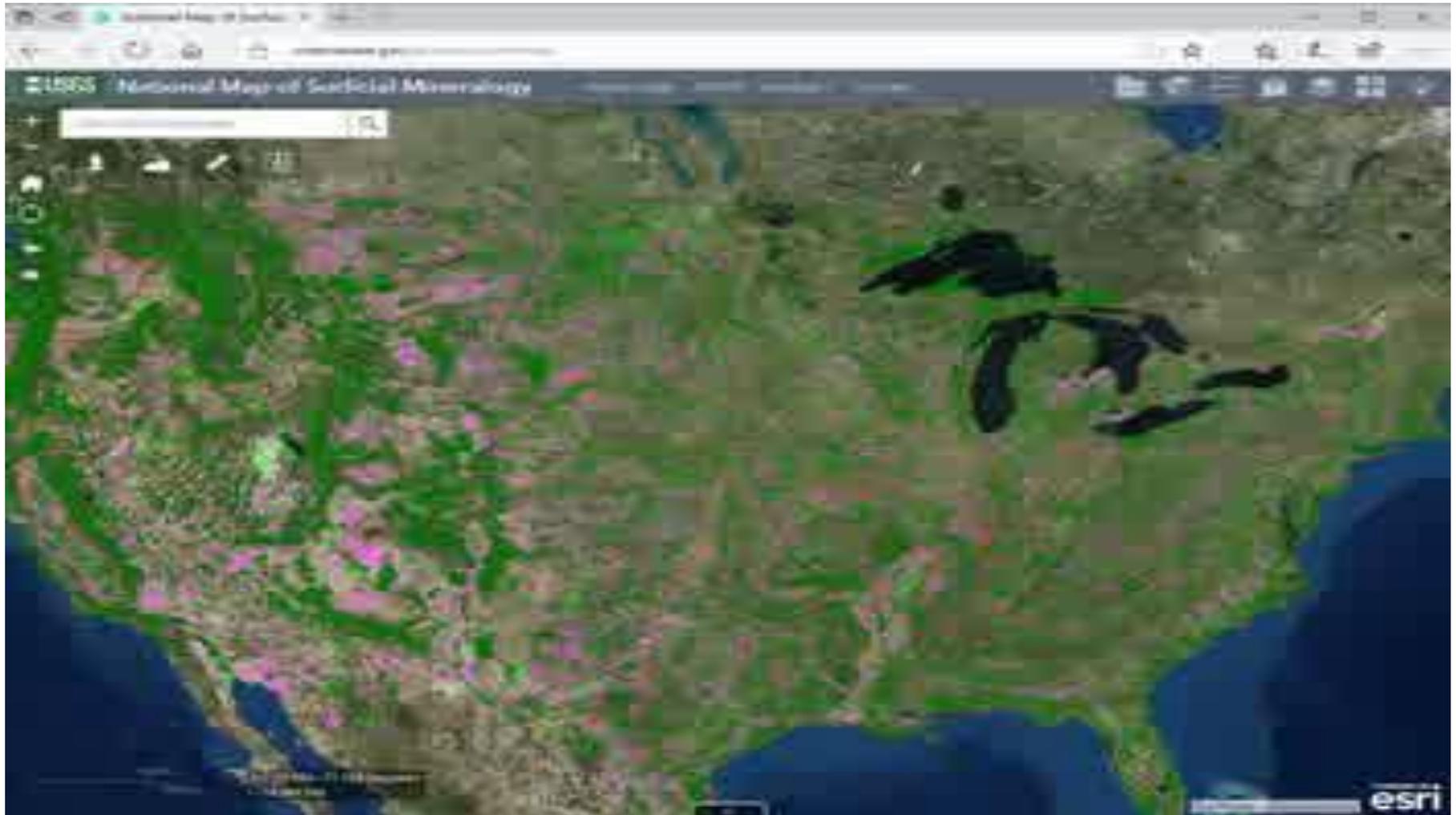
# USGS Surface Mineral Resource Map Viewer

[www.sciencebase.gov/gisviewer/usminmap](http://www.sciencebase.gov/gisviewer/usminmap)



# USGS Surface Mineral Resource Map Viewer

[www.sciencebase.gov/gisviewer/usminmap](http://www.sciencebase.gov/gisviewer/usminmap)



# USGS National Map Viewer

<https://viewer.nationalmap.gov/basic/>

The screenshot displays the USGS National Map Viewer interface. At the top, the USGS logo is on the left, and "The National Map" logo with the tagline "Your Source for Topographic Information" is on the right. Below the logos is a dark blue navigation bar containing "TNM Download (V1.0)", "How to", "Start Over", "Custom Views", "Share Link", and "Contact Us".

The main interface is divided into several sections:

- Datasets:** A sidebar on the left with a "Find Products" button and a "Map" section containing "US Topo" and "Historical Topographic Maps". Below this is a "Data" section with various datasets like "Boundaries - National Boundary Dataset", "Elevation Products (3DEP)", "Hydrography (NHDPlus HR, NHD, WBD)", "Imagery - NAIP Plus (1 meter to 1 foot)", "Map Indices", "Names - Geographic Names Information System (GNIS)", and "National Land Cover Database (NLCD)".
- Search and Map Controls:** A search bar with "Address/Place" dropdown and "Search location" input, with "Go" and "Clear" buttons. Below the search bar are map navigation controls: zoom in (+), zoom out (-), pan left and right arrows, home, refresh, trash, and location pin icons.
- Map Settings:** A row of radio buttons for "Use Map" (checked), "Box/Point", "Current Extent", "Coordinates", "Located Point", and "Polygon". Below this are more radio buttons for "Map Indices" and "1 Degree", "15 Minute", "7.5 Minute", and "All".
- Map:** A topographic map of the United States with various geographical features labeled, including Seattle, Mount Rainier, Grand Teton, Minneapolis, Chicago, Detroit, Boston, New York, Washington D.C., San Francisco, Mount Shasta, Mount Whitney, Los Angeles, Phoenix, Dallas, Houston, Atlanta, Charlotte, Miami, and Mexico. A scale bar in the bottom right shows 500 km and 300 mi.
- Coordinates:** A box at the bottom left of the map area displays "Lat/Lng" as "54.8463, -89.6770".

At the bottom of the page, a dark blue footer contains links for "Accessibility", "FOIA", "Privacy", and "Policies and Notices".

# USGS National Map Viewer Hydrology, Elevation, Boundaries...

The screenshot displays the USGS National Map Viewer interface for the NHD View (V1.0). The top navigation bar includes the USGS logo, the title "NHD View (V1.0)", and links for "How to", "Start Over", "Custom Views", "Share Link", and "Contact Us".

**Datasets Panel:**

- Advanced Search Options:** A "Find Products" button is present.
- Data:** A checkbox for "Hydrography (NHDPlus HR, NHD, WBD)" is checked.
- Product Search Filter:**
  - All Subcategories
    - NHDPlus High Resolution (NHDPlus HR) Beta
      - Show Availability (Limited during Production)
    - National Hydrography Dataset (NHD)
      - Hide Preview
    - Watershed Boundary Dataset (WBD)
      - Show Preview
  - Data Extent:**
    - HU-2 Region
    - HU-4 Subregion
    - HU-8 Subbasin
    - National
    - State
  - [Availability legend](#)
  - [Preview Legend](#)

**Map Interface:**

- Map Style:**  Use Map,  Box/Point,  Current Extent,  Coordinates,  Located Point,  Polygon.
- Map Indices:**  Map Indices,  1 Degree,  15 Minute,  7.5 Minute,  All.
- Search:** A search bar with "Address/Place" dropdown, "Search location." text, "Go" button, and "Clear" button.
- Map Controls:** Includes zoom in (+), zoom out (-), home, back, forward, and a "Description" button for the selected product.
- Map Content:** Shows a map of a region with various features labeled, including Pecan Creek, Turkey Creek, Spring Branch, Thrall, and several Soil Conservation Service Reservoirs (Site Number Two, Four A, Eight, Twenty, Twentythree, Thirtythree, El Eighteen). A scale bar indicates 3 km and 2 miles. The map is powered by Esri and The National Map.
- Coordinates:** Lat/Lng: 30.6412, -97.4063.

<https://viewer.nationalmap.gov/basic/?basemap=b1&category=nhd&title=NHD%20View>



# USGS and AASG

<https://ngmdb.usgs.gov/mapview/>

The image shows a screenshot of a web browser displaying the USGS and AASG mapview interface. The browser's address bar shows the URL <https://ngmdb.usgs.gov/mapview/>. The page features a complex geological map with various colored regions (yellow, red, blue, green, white) and a red grid overlay. The map is titled "USGS AASG" in the top left corner. The interface includes a search bar, a zoom control, and a list of bookmarks at the top. The map itself shows a detailed view of a geological area, likely a river valley or a similar feature, with various colored regions representing different geological units. A red grid is overlaid on the map, and a red box highlights a specific area of interest. The map is displayed on a dark background, and the interface elements are clearly visible.

# USGS and AASG

<https://ngmdb.usgs.gov/mapview/>



[USGS HOME](#)

[CONTACT USGS](#)

[SEARCH USGS](#)

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[Lexicon](#)

[MapView](#)

[Standards](#)

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## National Geologic Map Database

### Search Results

Sort Options:

- Scale  Author  Title  
 Year  Publisher  Series



[Share Link](#)



[Refine Search](#)



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[GIS Data](#)

**Records 1 - 100 (of 1071)**

[<Back](#) [Next>](#)

[>24K](#) || [24K](#) || [25 - 99K](#) || [100K](#) || [101K - 499K](#) || [500K](#) || [<500K](#) || [No Scale](#)

### Scale larger (more detail) than 1:24,000



Muehlberger, W.R., 1959, [Internal structure of the Grand Saline Salt Dome, Van Zandt County, Texas](#): University of Texas at Austin, Bureau of Economic Geology, Report of Investigations RI-38, scale 1:900.

Price, J.G., 1982, [Geology of the Plata Verde Mine, Hudspeth County, Texas](#): University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular MC-70, scale 1:1,200.

Flawn, P.T., 1952, [The Hazel copper-silver mine, Culberson County, Texas](#): University of Texas at Austin, Bureau of Economic Geology, Report of Investigations RI-16, scale 1:2,100.

McGowen, J.H., 1971, [Gum Hollow fan delta, Nueces Bay, Texas](#): University of Texas at Austin, Bureau of Economic Geology, Report of Investigations RI-66, scale 1:2,100.

# USGS Additional Sources

## nationalmap.gov

**USGS** science for a changing world **The National Map**

TNM Home About TNM News & Events Information Products CEGIS Small-Scale Standards & Specs Geospatial Data Contracts FAQs Contact Us Social Media Hydro Req & Benefits Study

**USGS Home**  
Contact USGS  
Search USGS

**The National Map**  
Your Source for Topographic Information

[All USGS](#) [This site only](#)

**US Topo**

**3D Elevation Program**

**National Hydrography Data Set**

**Historical Topographic**

<b>Maps</b>	<b>Elevation</b>	<b>Hydrography</b>
<b>Geographic Names</b>	<b>Transportation</b>	<b>Structures</b>
<b>Boundaries</b>	<b>Orthoimagery</b>	<b>Land Cover</b>

**Find Data + View & Download**

**TNM Partnership & User Engagement**

**The National Map Corps**

**U.S. Board on Geographic Names**

**Top News about The National Map** [Learn More!](#) Website by NGTOC

# USGS Additional Sources

## earthexplorer.usgs.gov

**USGS**  
science for a changing world

**EarthExplorer**

USGS Home  
Contact USGS  
Search USGS

Page Expires In 1:57:29

Home Login Register RSS Feedback Help

Search Criteria Data Sets Additional Criteria Results

### 1. Enter Search Criteria

To narrow your search area: type in an address or place name, enter coordinates or click the map to define your search area (for advanced map tools, view the [help documentation](#)), and/or choose a date range.

Address/Place Path/Row Feature Circle

Show Clear

Coordinates Predefined Area Shapefile KML

Degree/Minute/Second Decimal

No coordinates selected.

Use Map Add Coordinate Clear Coordinates

Date Range Result Options

Search from: mm/dd/yyyy to: mm/dd/yyyy

Search months: (all)

Data Sets » Additional Criteria » Results »

### Search Criteria Summary (Show) Clear Criteria

Map Satellite

(13° 34' 54" S, 143° 57' 53" W) Options Overlays

Google

Map data ©2018 INEGI Imagery ©2018 NASA, TerraMetrics 1000 km Terms of Use

The up-to-date Google map is not for purchase or for download; it is to be used as a guide for reference and search purposes only.

# Seismic Data

# Seismic Data

## SEG Wiki

[https://wiki.seg.org/wiki/Open\\_data](https://wiki.seg.org/wiki/Open_data)

No 2d land

3d land: Teapot Dome and Stratton

WHY?

Licensing!!

Be sure to check usage agreements!

# BOEM

Bureau of Ocean Energy  
Management

# BOEM / USGS Seismic

<https://walrus.wr.usgs.gov/namss/search/>

**USGS**  
science for a changing world

**Pacific Coastal and Marine Science Center**

The National Archive of Marine Seismic Surveys

Home Search Web Services About

Surveys Filters Help

Filter Clear

**Identifiers**

**Years**

**Data Types**

**Contributors**

**Data Acquisition Systems**

1000 km  
500 mi  
Position: -169.80469, 9.62241

USGS Home  
Contact USGS  
Search USGS

Leaflet | ©2017 GMRT, ©2017 Esri World Ocean Reference

# BOEM Seismic

<https://walrus.wr.usgs.gov/namss/search/>



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[Search USGS](#)

## Pacific Coastal and Marine Science Center

The National Archive of Marine Seismic Surveys

[Home](#) [Search](#) [Web Services](#) [About](#)

Surveys [Filters](#) [Help](#)

Data Type: 3D Multichannel Seismic

Contributor: Bureau of Ocean Energy Management

Data Acquisition System: Airgun and Streamer

Vessels: Unspecified

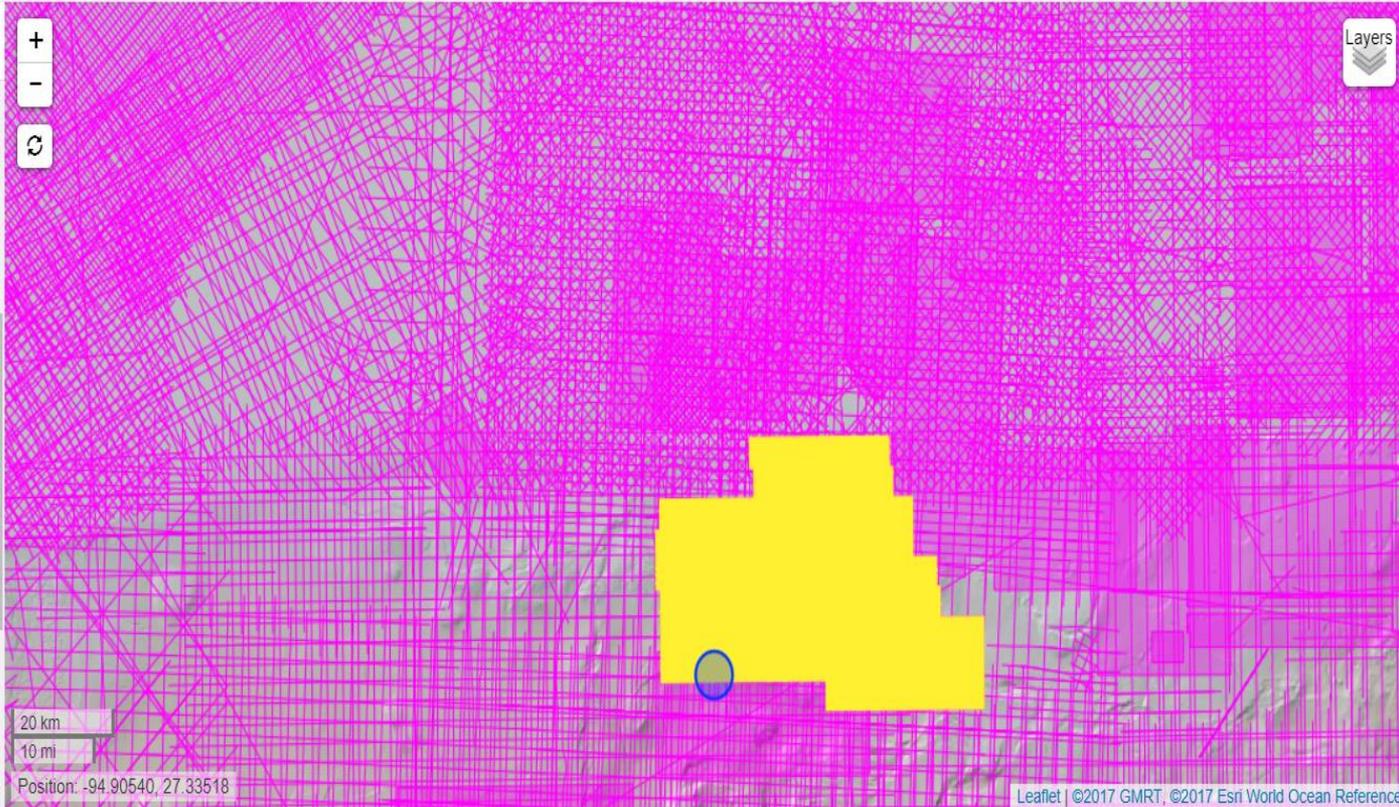
[Open survey page in new tab](#)

▸ B-15a-89-TX | 3D

▸ B-12-88-GM | 2D

▸ B-13-88-GM | 2D

▸ B-15-88-GM | 2D



# BOEM Seismic

<https://walrus.wr.usgs.gov/namss/search/>



Pacific Coastal and Marine Science Center

The National Archive of Marine Seismic Surveys

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Home Search Web Services About

## B-32-91-TX

### Files

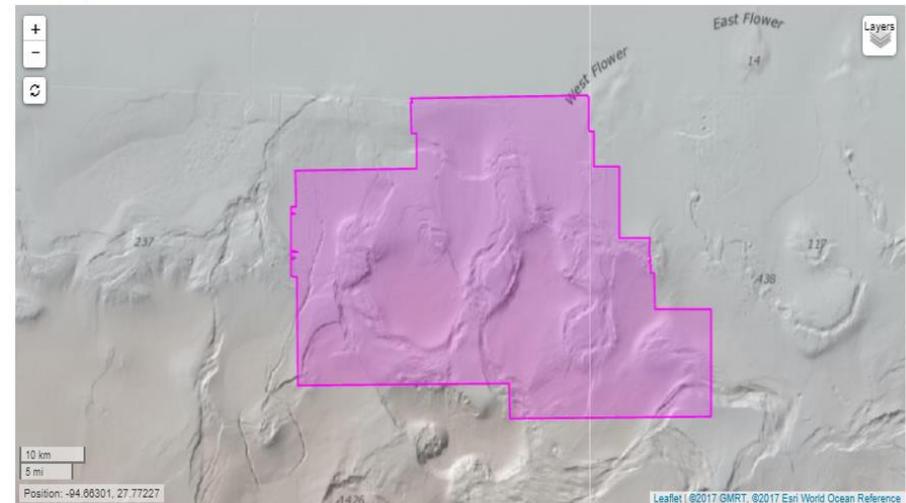
Dataset zip file	Download (26.6 GB)	<a href="#">View Contents</a>
Navigation File	Download (6.7 KB)	
Seismic Metadata v.1	Download	<a href="#">View Metadata</a>
Data Release Announcement	Download (428.1 KB)	

Contact the [NAMSS Team](#) if you have trouble downloading the dataset. The dataset is also available from [here](#).

### General Information

Data Type	3D Multichannel Seismic
Data Acquisition System	Airgun and Streamer
Contributor	Bureau of Ocean Energy Management
Dates	Started on Aug. 28, 1991, and ended on Aug. 28, 1991.
Description	These data were acquired by BOEM (formerly MMS and USGS). Under the terms of procurement, these data are to be available to the public 25 years after the issuance of the exploration permit.
Purpose	These data were acquired commercially for geophysical and geological (G&G) exploration of oil and gas prospects on the U.S. Outer Continental Shelf (OCS). The Dept. of Interior, which regulates G&G activities on the OCS, acquired these data in order to ensure that the Federal government received fair market value for leases issued for oil and gas production on the OCS, and to accomplish other regulatory functions.
Notes	MCS Data transferred from BOEM to USGS for posting on NAMSS. Limited information available.

### Location



Area covered: 2,711 square kilometers

# BOEM - OFFSHORE

1. HOMEPAGE <https://www.boem.gov/>
2. MAPS AND GIS DATA: <https://www.boem.gov/Maps-and-GIS-Data/>
3. OTHER OFFSHORE DATA RESOURCES  
<https://www.boem.gov/Oil-and-Gas-Energy-Program/Mapping-and-Data/Additional-Data-Sources.aspx>
4. MAP GALLERY <https://www.boem.gov/Oil-and-Gas-Energy-Program/Mapping-and-Data/Map-Gallery/Index.aspx>
5. BOEM DATA CENTER  
<https://www.data.boem.gov/Main/Default.aspx>
6. SEISMIC DATA  
<https://www.data.bsee.gov/Other/DiscMediaStore/Pr emadeSets.aspx>

# Marine Cadastre National Viewer

## Bathymetry

[marinecadastre.gov/nationalviewer](http://marinecadastre.gov/nationalviewer)

The screenshot displays the Marine Cadastre National Viewer interface. The main map area shows bathymetry data for the Gulf of Mexico, with a color scale ranging from red (shallow) to purple (deep). Key features include the Sigsbee Deep, Tulum Terrace, and the West Soto Valley. The interface includes a top navigation bar with 'DRAW', 'IDENTIFY', and 'BASEMAP' options. A right-hand panel titled 'ALL LAYERS' and 'ACTIVE LAYERS' lists various data layers, including Displacement Sensitivity Species Richness, Avian Species Richness, Avian Total Relative Abundance, Bathymetric Contours, Benthic Cover, Biologically Important Areas for Cetaceans - Feeding, and Biologically Important Areas for Cetaceans - Migratory Corridor. The bottom of the screen shows the United States Department of Commerce | National Oceanic and Atmospheric Administration | National Ocean Service | Website owner: Office for Coastal Management, along with contact information and a link disclaimer.

Marine Cadastre National Viewer

DRAW IDENTIFY BASEMAP

HIDE LAYERS

ALL LAYERS ACTIVE LAYERS

Filter by tags

- Displacement Sensitivity Species Richness
- Avian Species Richness
- Avian Total Relative Abundance
- Bathymetric Contours
- Benthic Cover
- Biologically Important Areas for Cetaceans - Feeding
- Biologically Important Areas for Cetaceans - Migratory Corridor

Gulf of Mexico

Sigsbee Deep

Tulum Terrace

West Soto Valley

1:4,622,324.43 23.7954, -91.86768

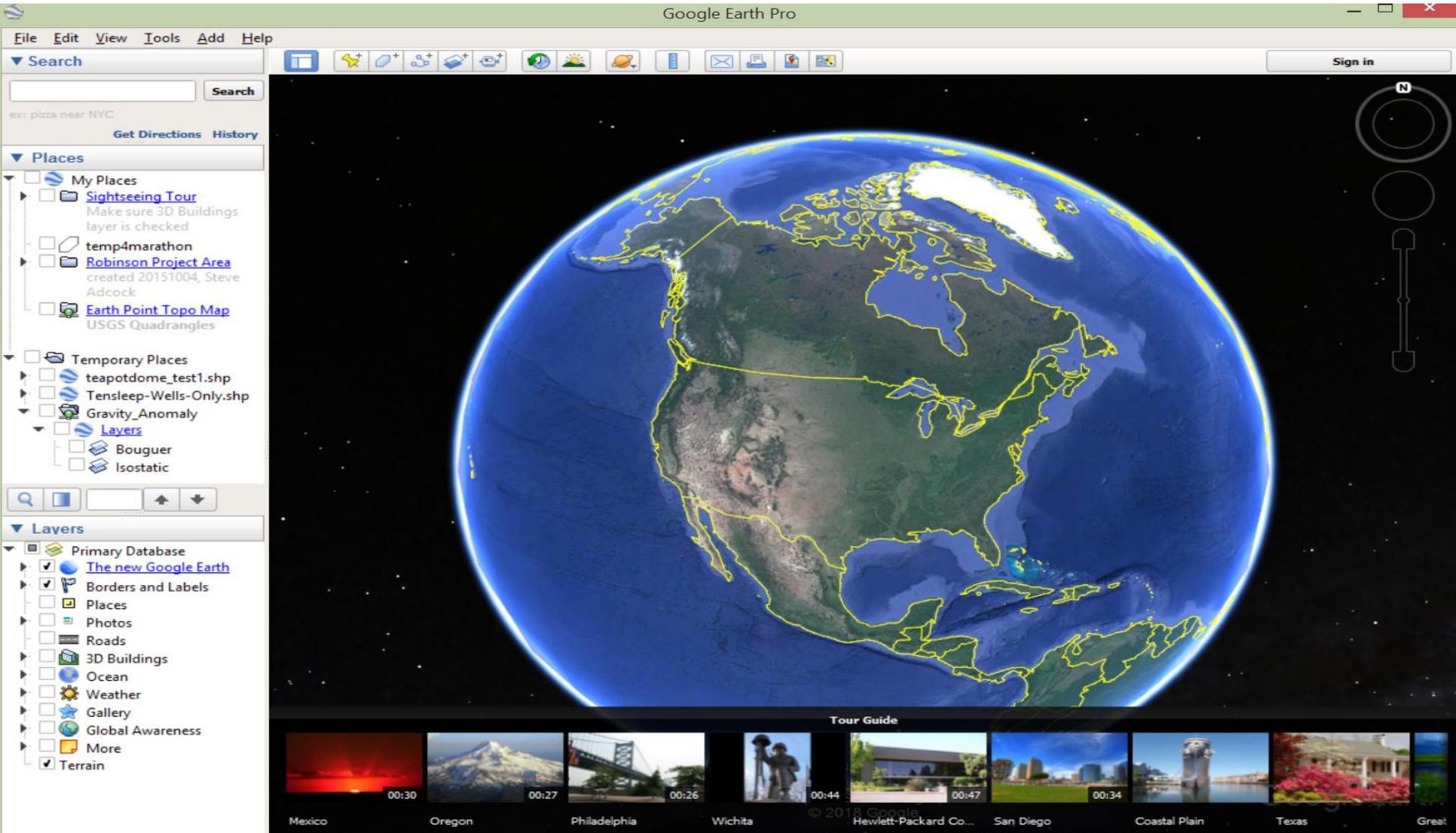
United States Department of Commerce | National Oceanic and Atmospheric Administration | National Ocean Service | Website owner: Office for Coastal Management

Contact Us | Privacy Policy | Link Disclaimer | USA.gov

# RESOURCES



# Google Earth



# FREE GEOPHYSICS SOFTWARE

[https://en.wikipedia.org/wiki/Comparison\\_of\\_free\\_geophysics\\_software](https://en.wikipedia.org/wiki/Comparison_of_free_geophysics_software)

# RESOURCES



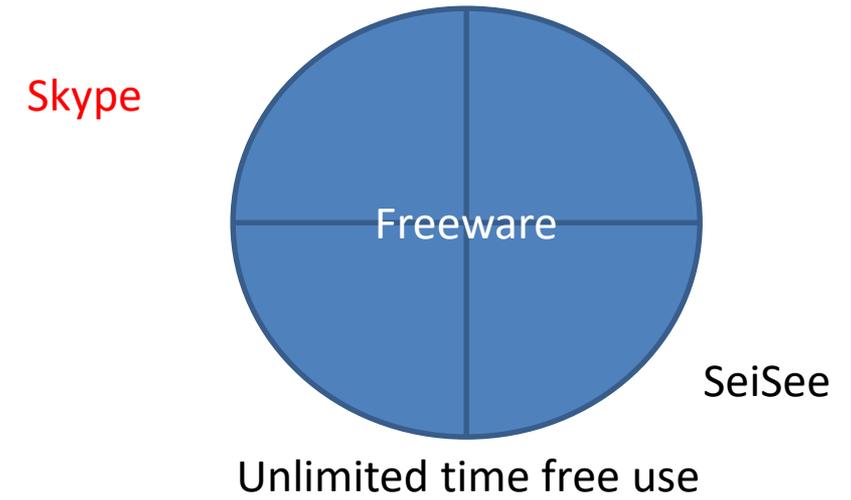
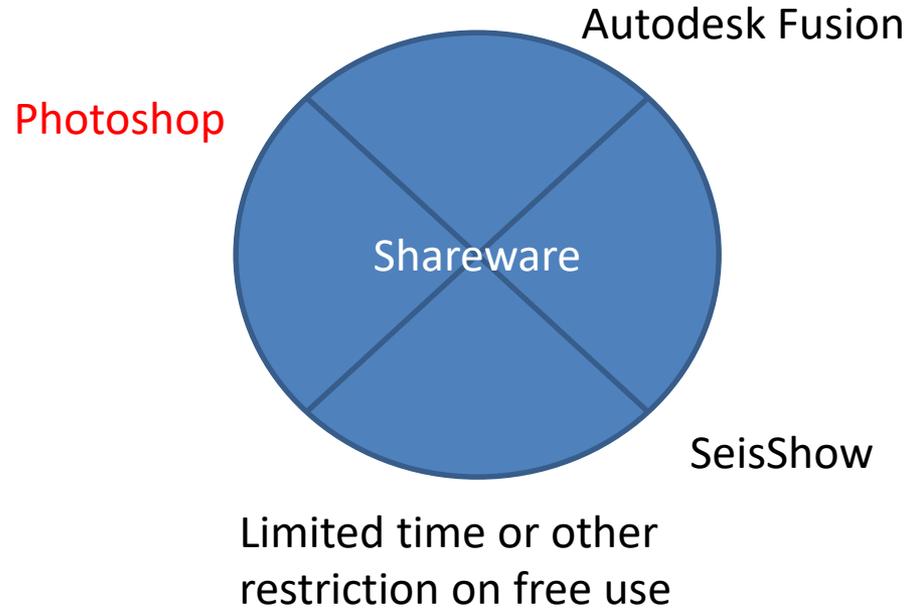
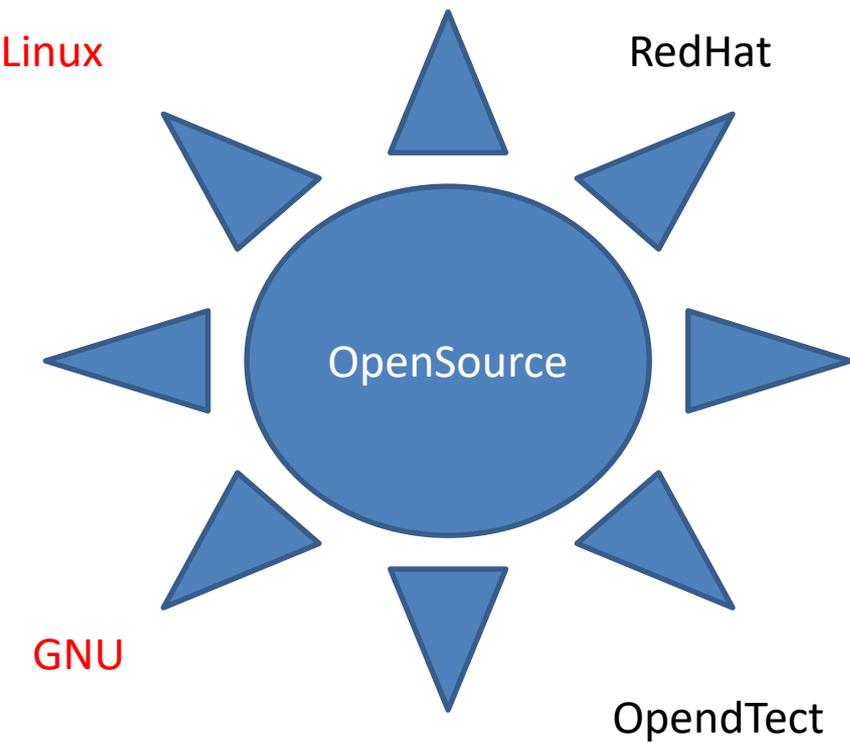
- Paper Prints
- Colored Pencils
- Printing Shops
- A2D?

# Analog to Digital

- Paper logs? Use your phone camera to get an image. Fax machines worked great.
- Free digitizers. Ex. For short log intervals:  
<http://www.kgs.ku.edu/software/DEWL/index.html>
- Pay someone to digitize logs for you (~\$15/log curves). Seismic more difficult.

# OpenSource: code available

# Closed Source: code not available



Profit from sales of added value products, or donations

Profit on sale after free period, additional products, or donations

# OpenSource / Shareware / Freeware

- OpenSource: Data and Software source code which may be freely copied, modified, and distributed. There may be copying fees or usage license agreements. (ex. Linux)
- Shareware: Data or software which may be seen or used for a limited time, or with other restrictions. Source code not available. (ex. Photoshop)
- Freeware: Copyrighted software made freely available for an unlimited time. Source code not available. (ex. Skype)

# Extras

Worth the cost of admission:

- Free stuff: <https://www.hgs.org/node/5923>
- Free format conversions:  
<https://convert.goldensoftware.com/Application/supportedFormats>
- Free format conversions: Zamzar.com
- Windows 10: free “Game” video capture with audio (press windows icon + G)

THANK YOU  
Enjoy the Singularity!

