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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**

**RESOURCE EVALUATIONS**

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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



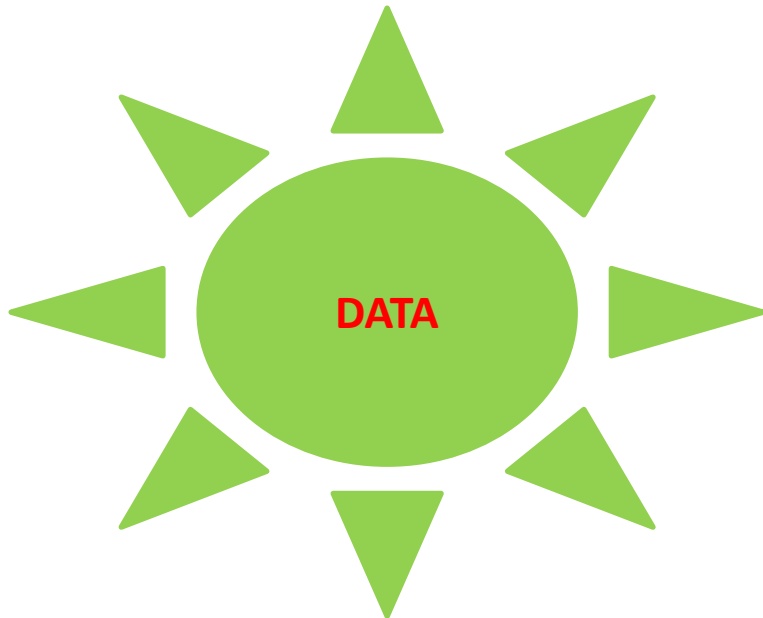
Net of a Million Lies



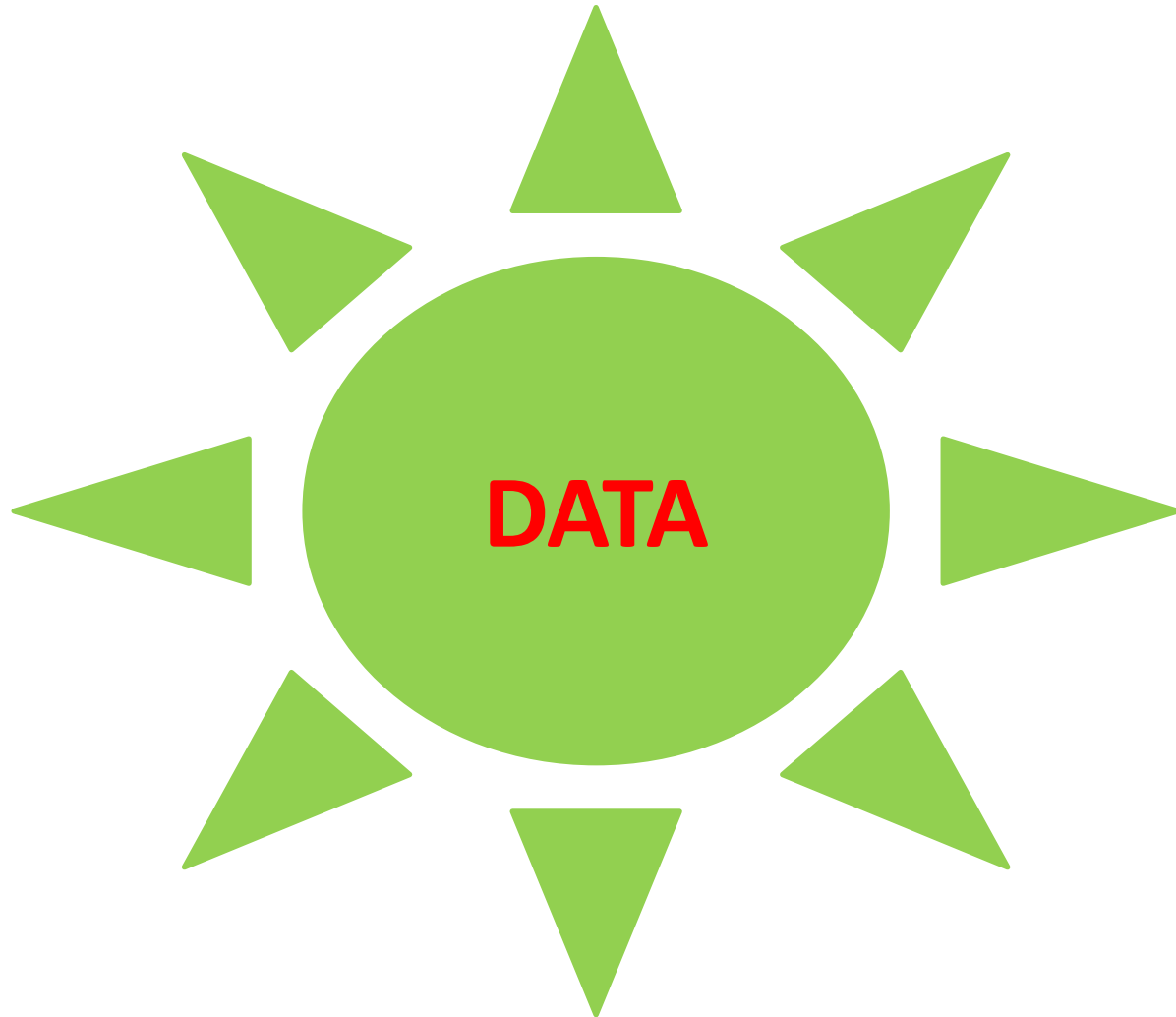
# GEOSCIENCE

## 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/ ☆ ⓘ

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**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



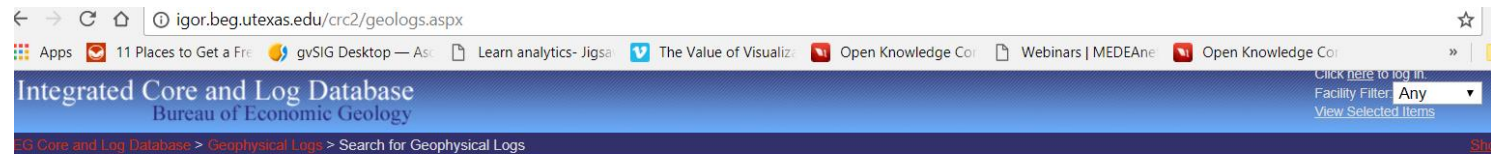
Search for Geophysical Logs

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

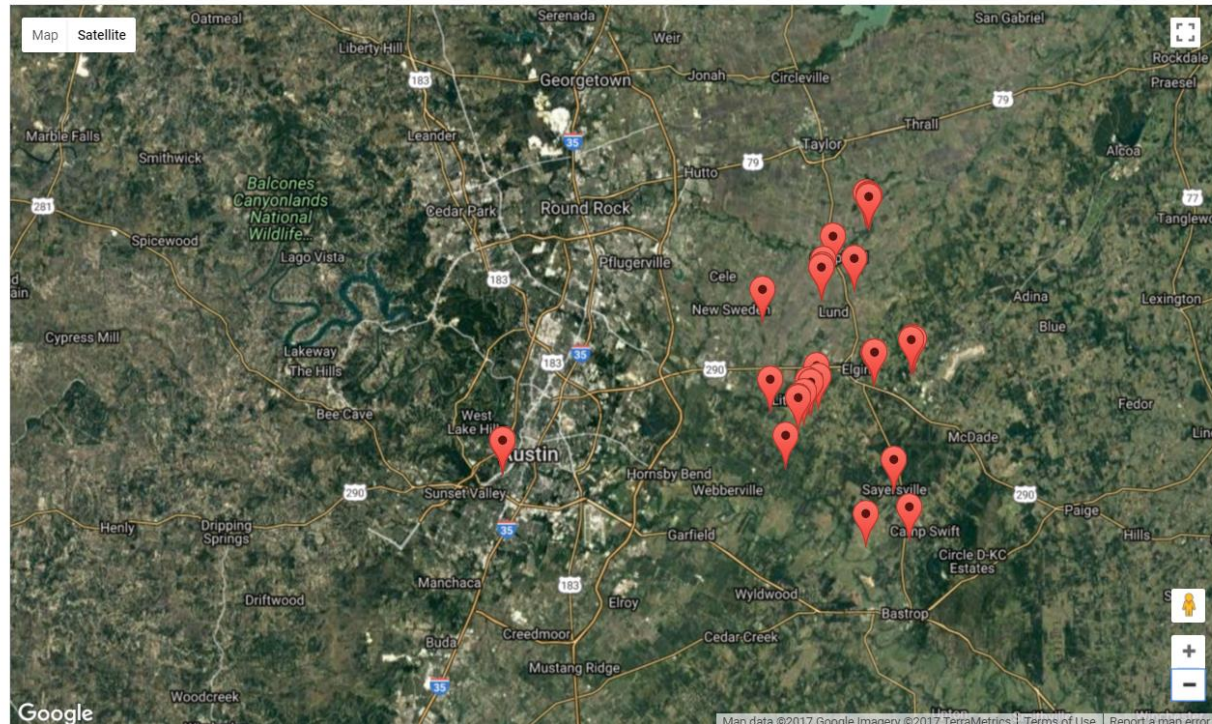


# TEXAS

<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>

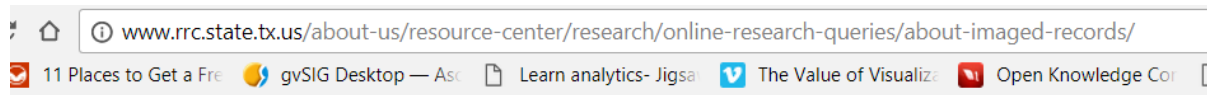
Well logs prior to July 2004 are available in paper format from the University of Texas Bureau of

Economic Geology's [Geophysical Log Facility](#)

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

# 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


Secure | https://rrcsearch3.neubus.com/esd3-rrc/index.php?\_module\_=esd&\_action\_=keysearch&profile=15






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neubus

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		

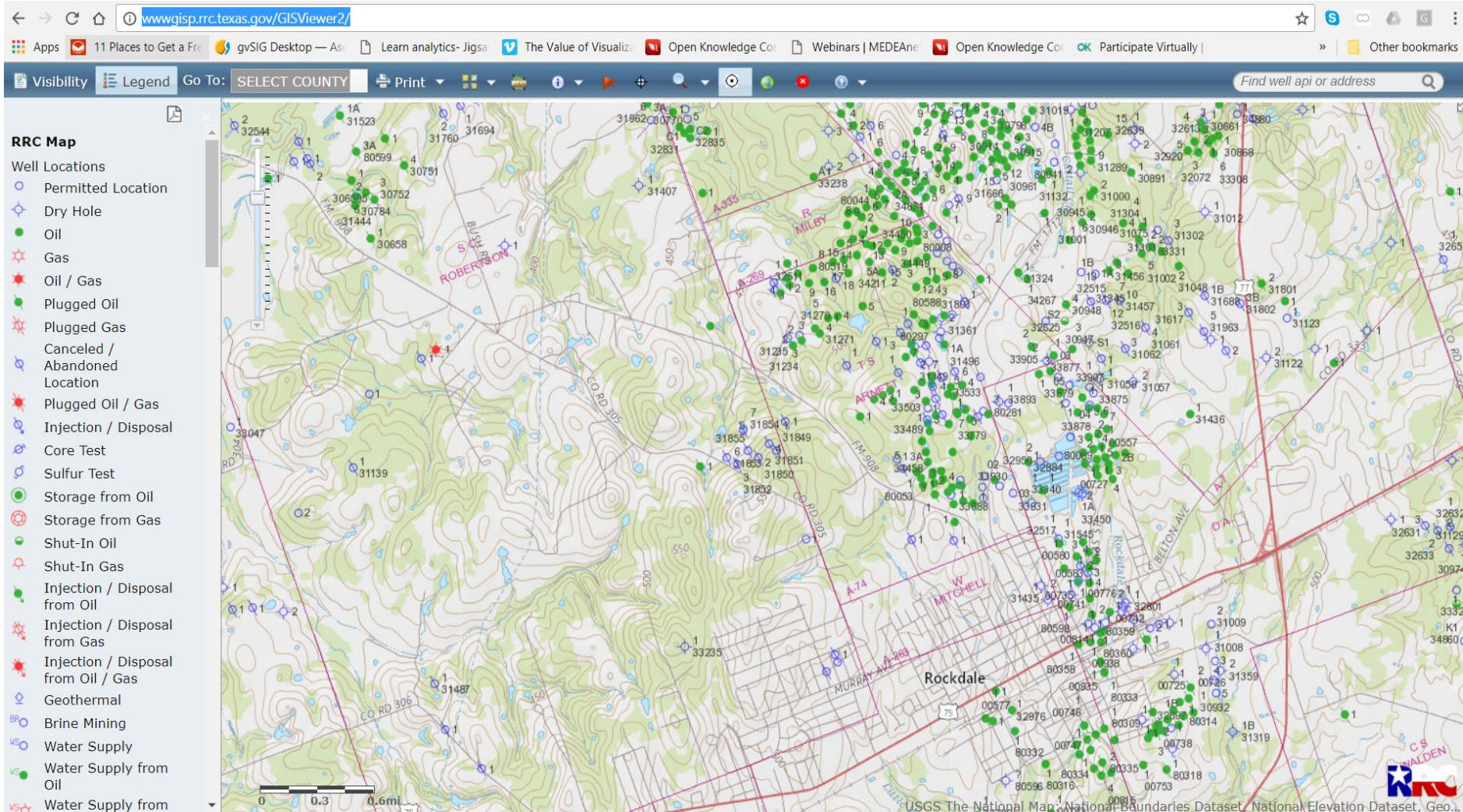
Search Clear

feedback



# TEXAS RRC GIS

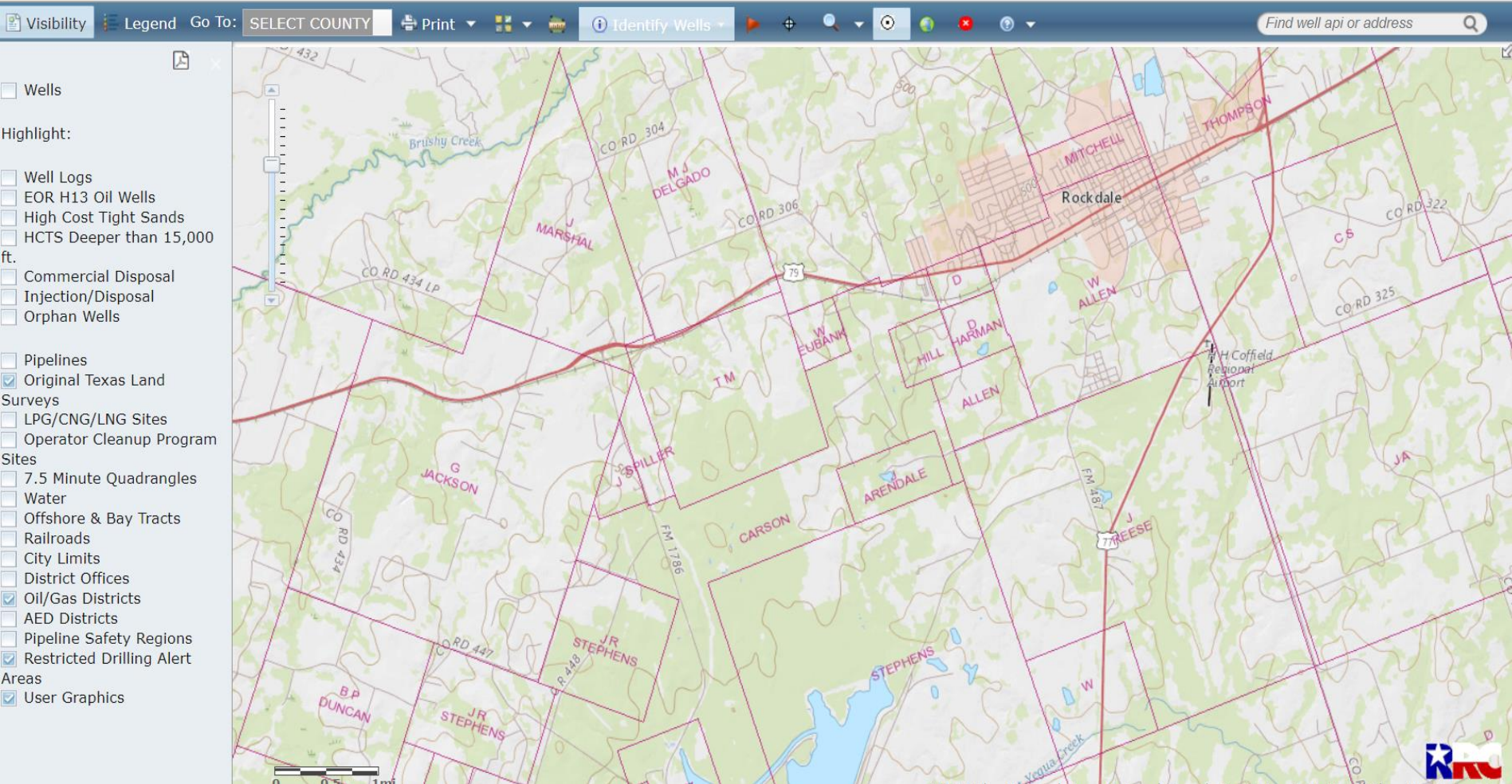
<http://wwwgisp.rrc.texas.gov/GISViewer2/>





# TEXAS RRC GIS

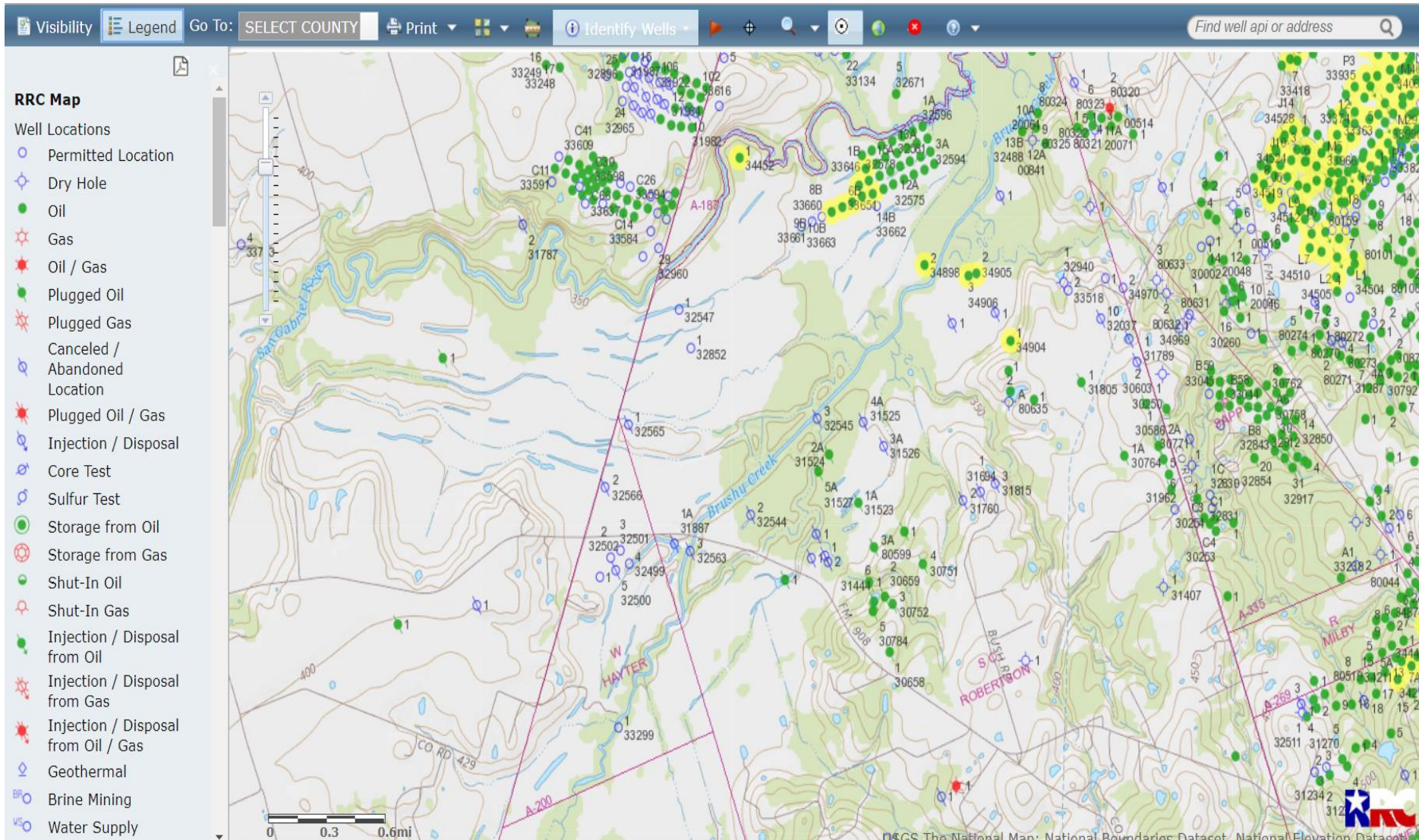
<http://www.gisp.rrc.texas.gov/GISViewer2/>



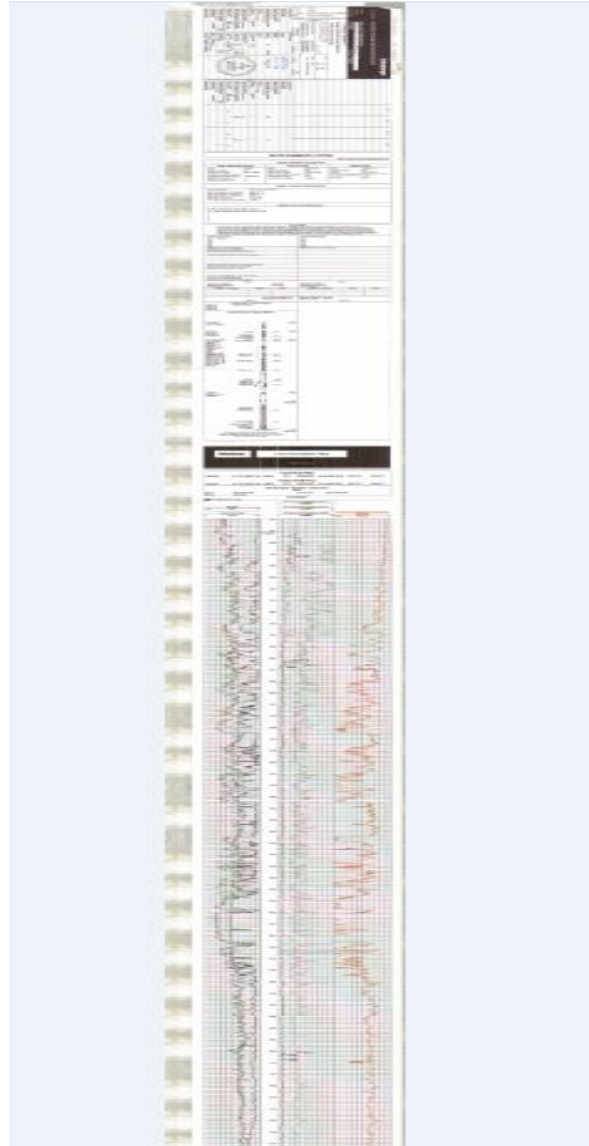


# TEXAS RRC GIS

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



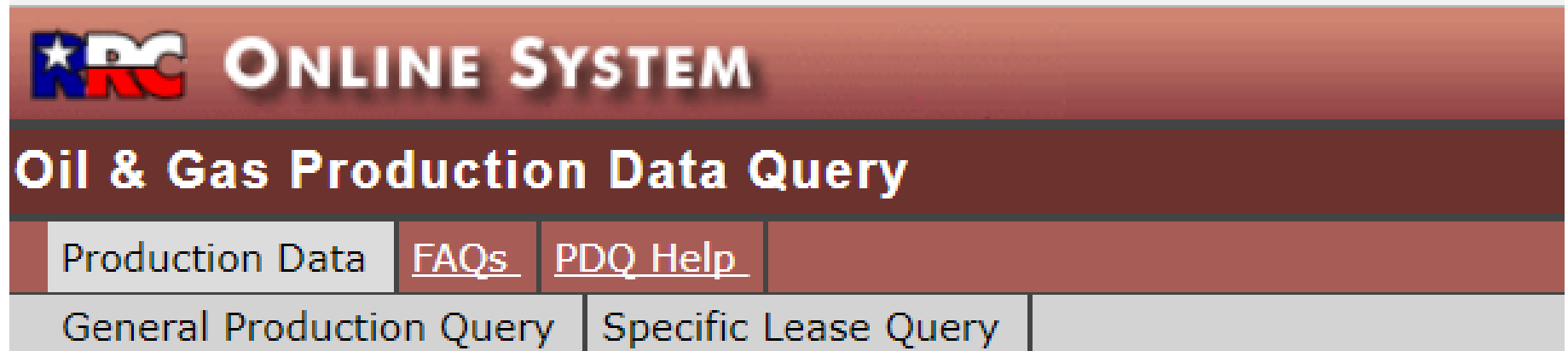
# TEXAS Well Log Images





# Production Data

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



## 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 if 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 number, 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/>  
[wwwwgisp.rrc.texas.gov/GISViewer2](http://wwwwgisp.rrc.texas.gov/GISViewer2)
- USGS cores <https://my.usgs.gov/crcwc/map>
- University of Texas, Texas A&M, LSU

# LOUISIANA

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

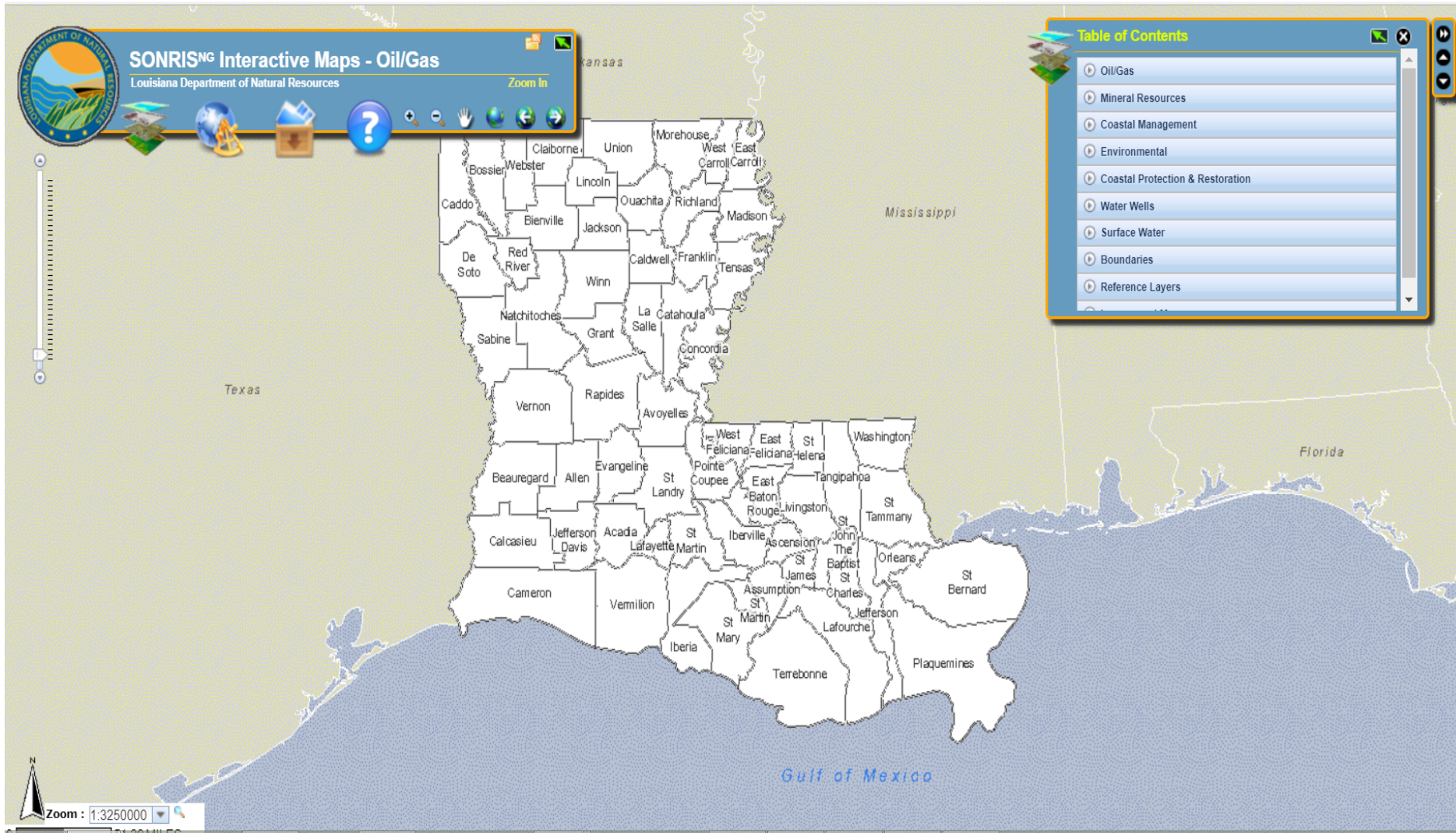


**NOTE** NOW available for users of SONRIS, the Louisiana DNR Data Subscription Service. Effective now, you can purchase a subscription to the SONRIS data and be able to get a monthly download of all the data for integration into your own databases and application. View the details at [http://sonris-www.dnr.state.la.us/Data\\_Subscription\\_Service\\_Announcemen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

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

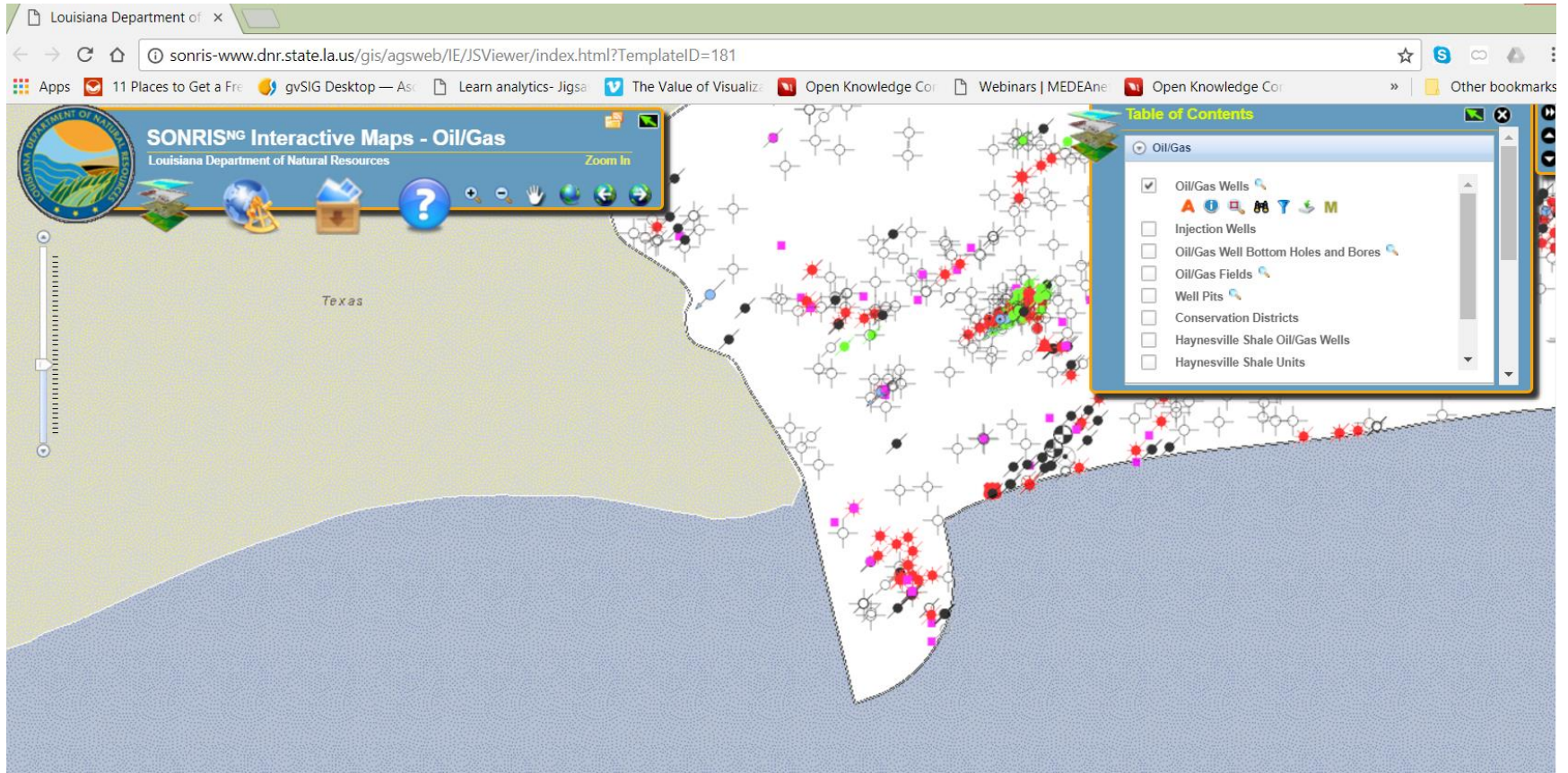
# LOUISIANA

<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 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

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

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[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="#">f</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="#">f</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="#">f</a>	INDUCTION ELECTRICAL	1	140837	8/2/2009 8:27PM		WELL LOG
4	<a href="#">TIF</a>	<a href="#">i</a>	<a href="#">f</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

#### 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

#### PLUG AND ABANDON



# LOUISIANA

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

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# 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



# NOAA

National Oceanographic  
and Atmospheric  
Administration

# NOAA

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

Browser tabs: National Map of Surficial M, GIS Maps | National Cer, National Map of Surficial M

Address bar: [gis.ncdc.noaa.gov/maps](https://gis.ncdc.noaa.gov/maps)

Page title: NCEI Map Viewer

Navigation: Layers, Results

NOAA NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Map Categories: Surface Maps, Time-Related Maps, Climate Maps, All Maps

Map Thumbnails:

- 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

Map Background: Dark map showing North America and surrounding regions (Canada, Mexico, Central America, Caribbean Sea). Major cities and geographical features are labeled.

# NOAA



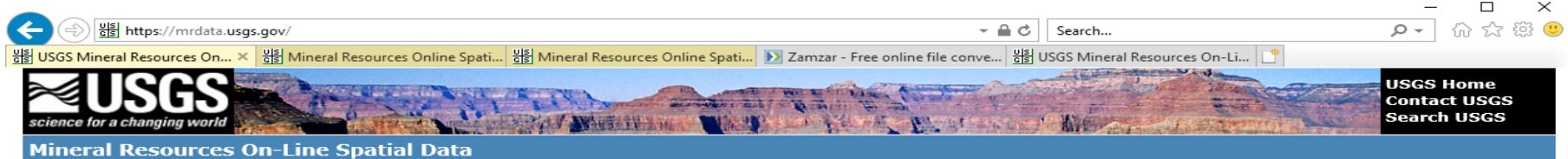
# USGS

United States Geological  
Society



# USGS Mineral Resources Online Data

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



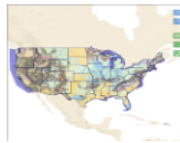
### Mineral Resources Online Spatial Data

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

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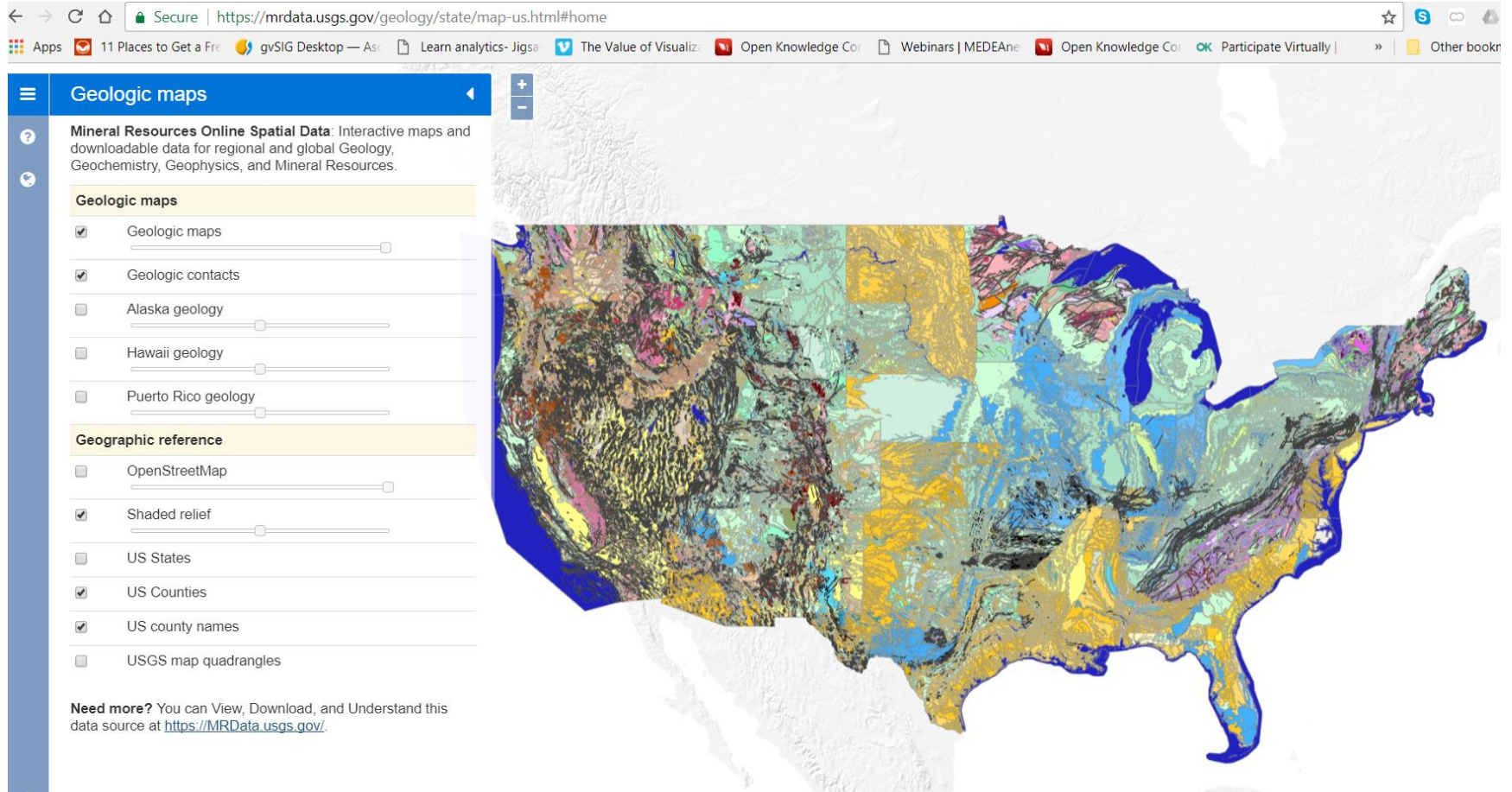
U.S. Department of the Interior | U.S. Geological Survey

Page Contact Information: [Ask MRData](#)



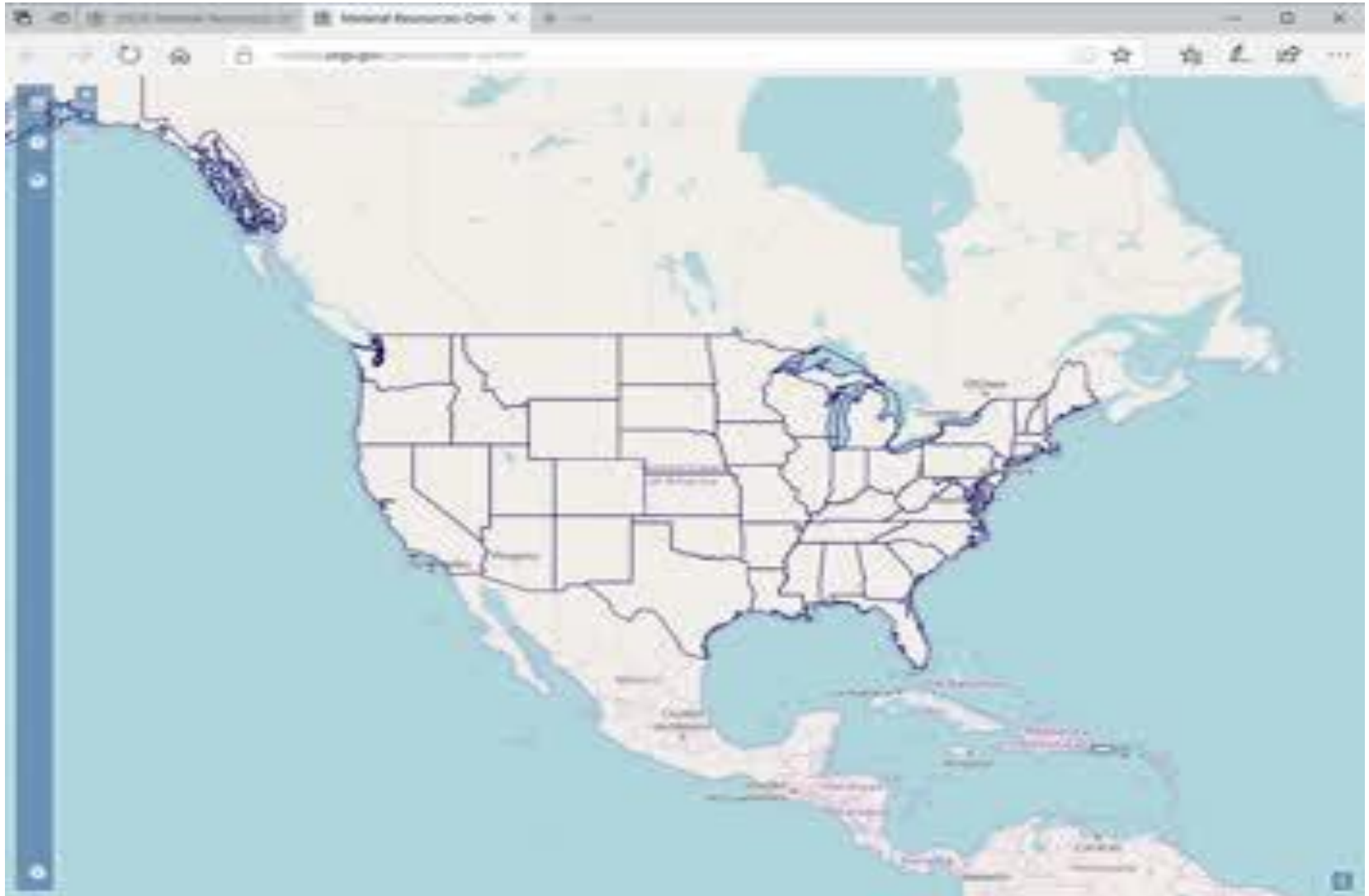
# Mineral Resources Online Data

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



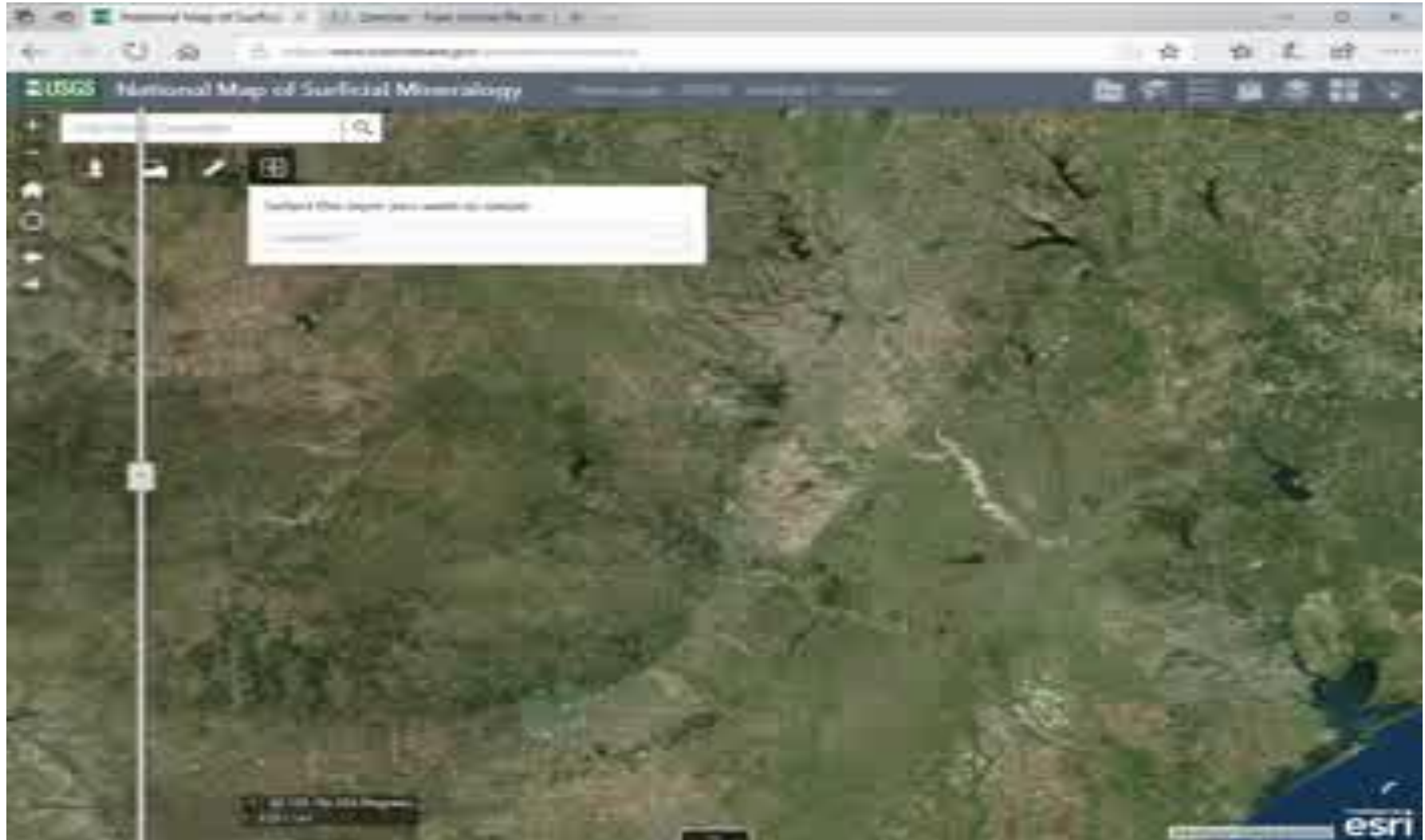
# USGS Mineral Resource Map Viewer

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



# USGS Surface Mineral Resource Map Viewer

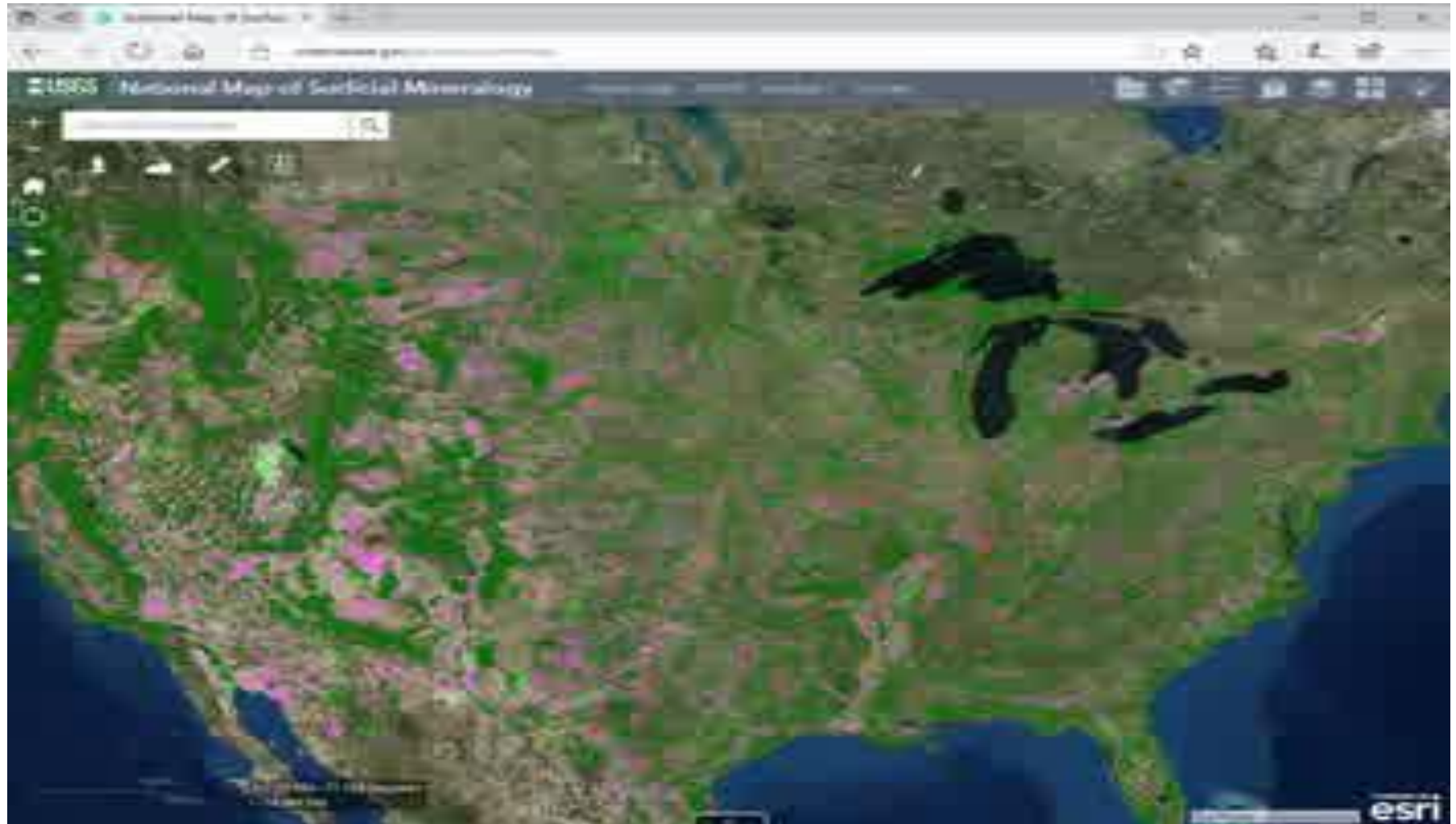
[www.sciencebase.gov/gisviewer/usminmap](http://www.sciencebase.gov/gisviewer/usminmap)







# 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/>



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Datasets

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Map

☐ US Topo

☐ Historical Topographic Maps

Data

☐ Boundaries - National Boundary Dataset

☐ Elevation Products (3DEP)

☐ Elevation Source Data (3DEP)

☐ Hydrography (NHDPlus HR, NHD, WBD)

☐ Imagery - NAIP Plus (1 meter to 1 foot)

☐ Map Indices

☐ Names - Geographic Names Information System (GNIS)

☐ National Land Cover Database (NLCD)

☒ Use Map ☐ Box/Point ☒ Current Extent ☐ Coordinates ☐ Located Point ☐ Polygon

☐ Map Indices ☐ 1 Degree ☐ 15 Minute ☐ 7.5 Minute ☐ All

Address/Place  Search location.

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Lat/Lng  54.8463, -89.6770

Leaflet | Powered by Esri | The National Map

Accessibility FOIA Privacy Policies and Notices

# USGS National Map Viewer

## Hydrology, Elevation, Boundaries...

The screenshot displays the USGS National Map Viewer interface. 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". The "The National Map" logo is also present in the top right corner.

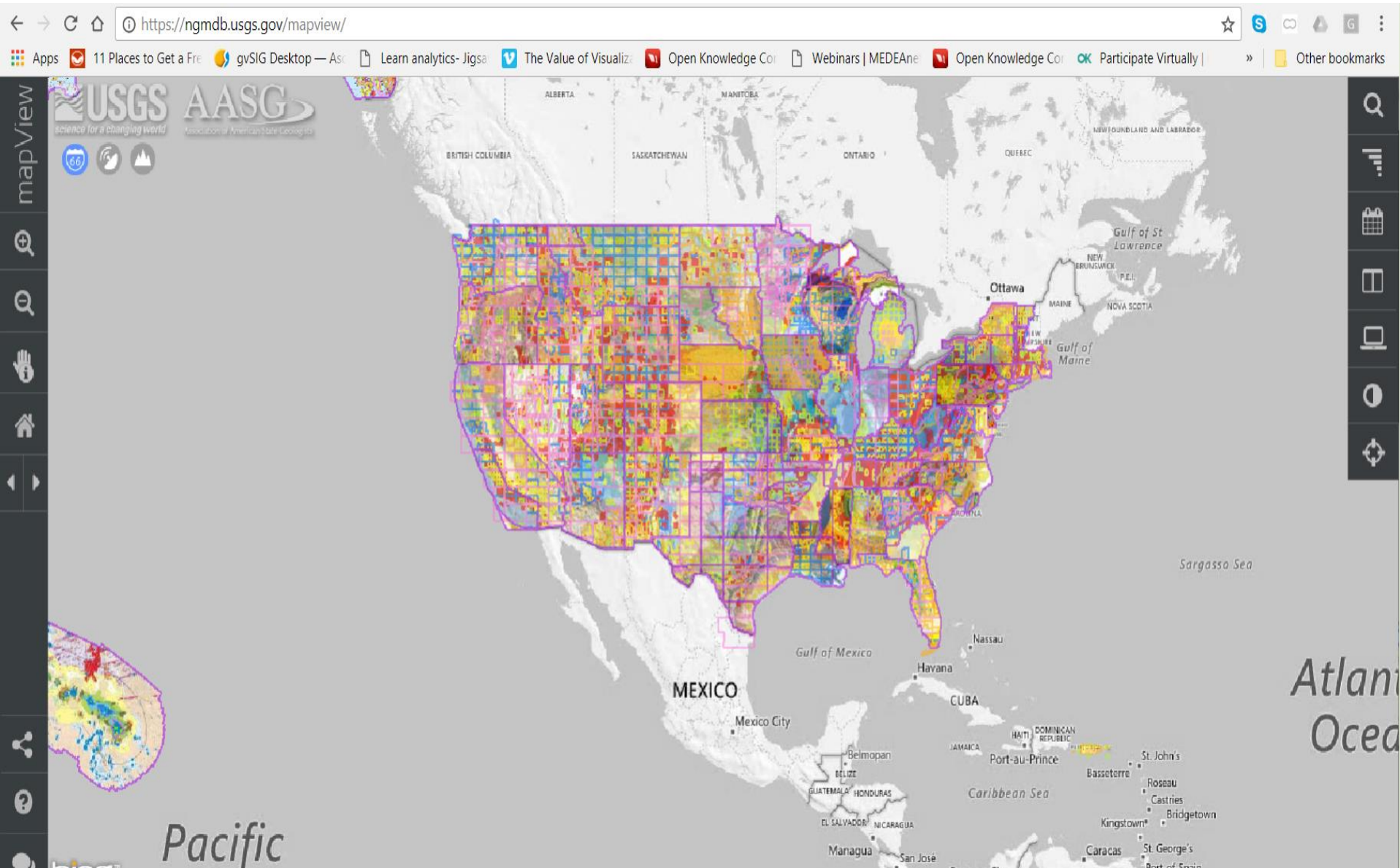
The left sidebar contains the "Datasets" section, which is currently expanded to show "Advanced Search Options". Under "Data", the "Hydrography (NHDPlus HR, NHD, WBD)" dataset is selected. The "Product Search Filter" section includes checkboxes for "All Subcategories", "NHDPlus High Resolution (NHDPlus HR) Beta", "National Hydrography Dataset (NHD)", and "Watershed Boundary Dataset (WBD)". The "Data Extent" section includes radio buttons for "HU-2 Region", "HU-4 Subregion", "HU-8 Subbasin", "National", and "State". The "Availability Legend" and "Preview Legend" links are also visible.

The main map area shows a topographic map of a region in Texas, including the cities of Thrall and Thordale. The map displays various hydrographic features such as Pecan Creek, Turkey Creek, Spring Branch, Long Branch, and Mustang Creek. Several sites are marked, including Site Number Two, Site Number Four A, Site Number Eight, Site Number One, Site Number Twenty, Site Number Eighteen, and Site Number Thirtythree. The map includes a scale bar (0 to 3 km) and a coordinate display at the bottom left showing "Lat/Lng 30.6412, -97.4063". The map is powered by Esri and The National Map.

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



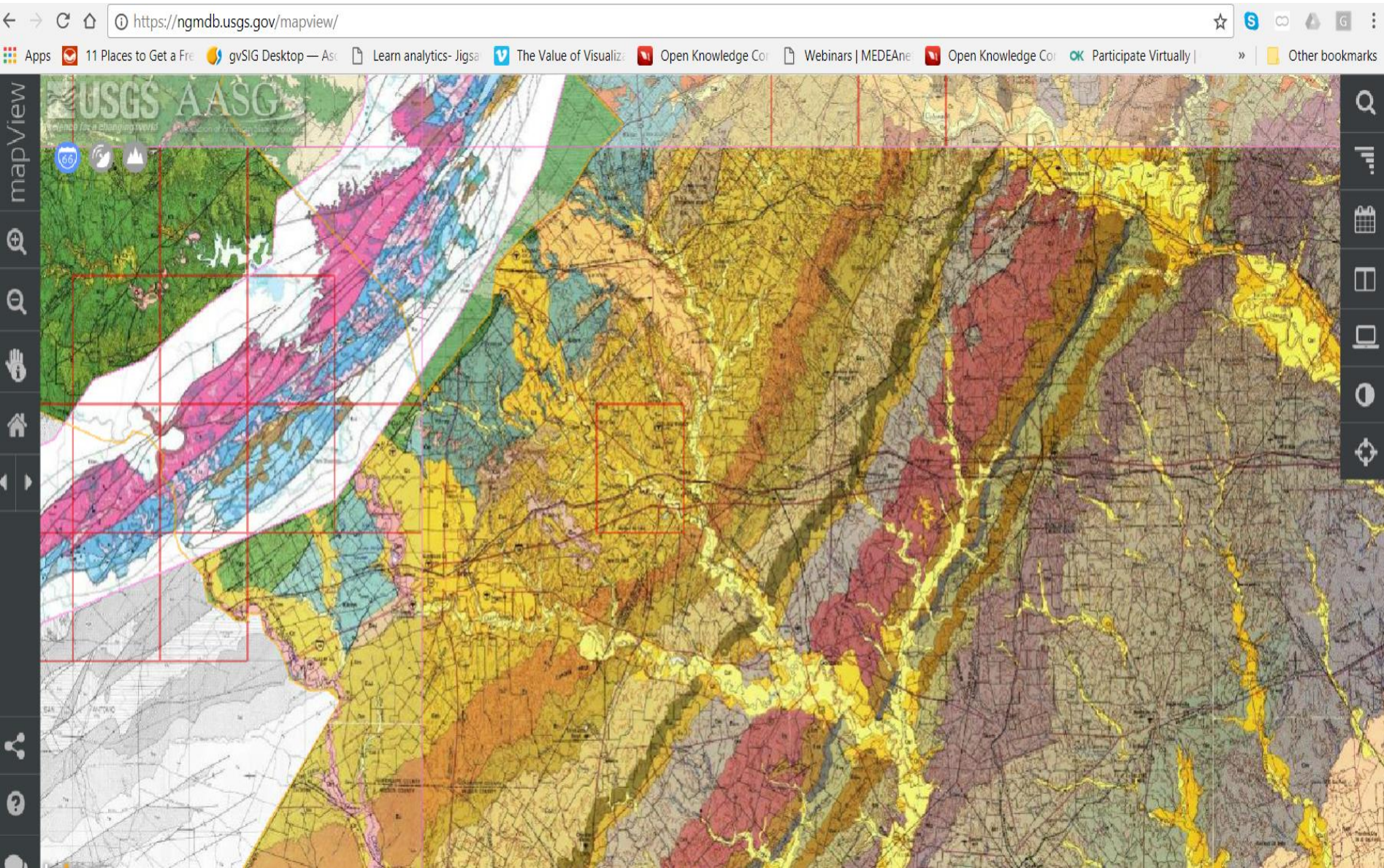
<https://ngmdb.usgs.gov/mapview/>





# USGS and AASG

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





# USGS and AASG

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



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## National Geologic Map Database

### Search Results

Sort Options:

- ☒ Scale ☐ Author ☐ Title  
☐ Year ☐ Publisher ☐ Series



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**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-60, scale 1:2,100.

# USGS Additional Sources

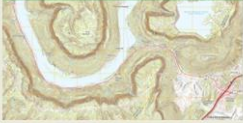
## [nationalmap.gov](http://nationalmap.gov)

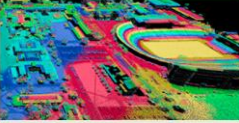



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**3D Elevation Program**  



**National Hydrography Data Set**  



**Historical Topographic**  


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# USGS Additional Sources

## earthexplorer.usgs.gov



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CoordinatesPredefined AreaShapefileKML

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No coordinates selected.

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



Google

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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/>



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Data Type: 3D Multichannel Seismic

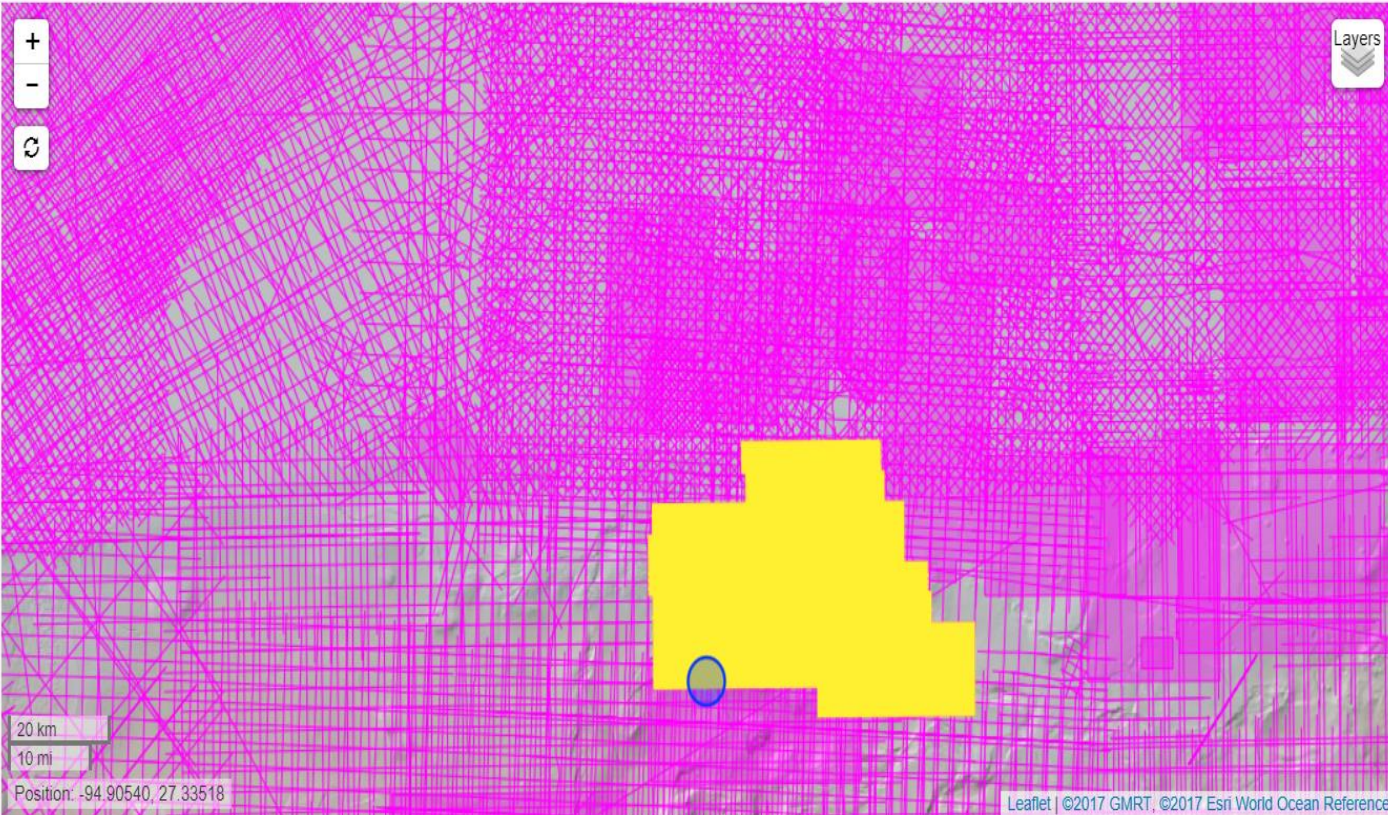
Contributor: Bureau of Ocean Energy Management

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



20 km  
10 mi  
Position: -94.90540, 27.33518

Layers

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

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## B-32-91-TX

### Files

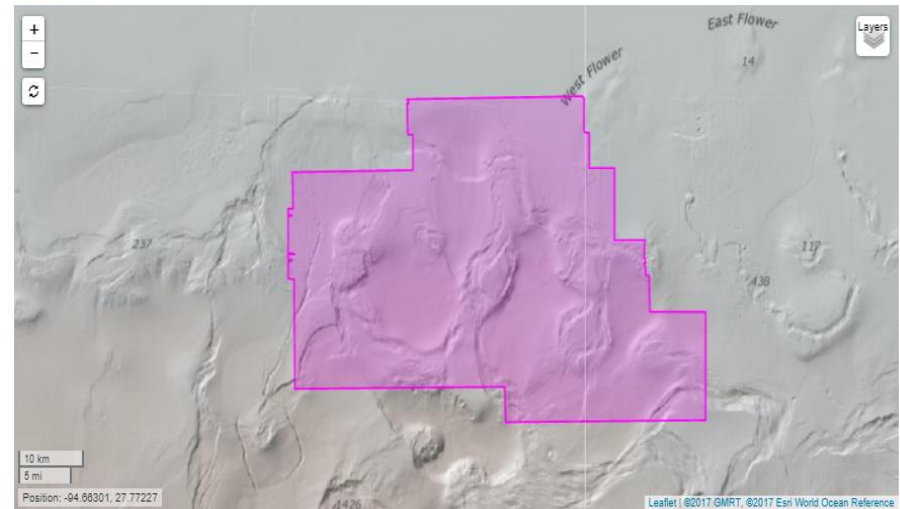
Dataset zip file	<a href="#">Download (26.6 GB)</a>	<a href="#">View Contents</a>
Navigation File	<a href="#">Download (6.7 KB)</a>	
Seismic Metadata v.1	<a href="#">Download</a>	<a href="#">View Metadata</a>
Data Release Announcement	<a href="#">Download (428.1 KB)</a>	

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

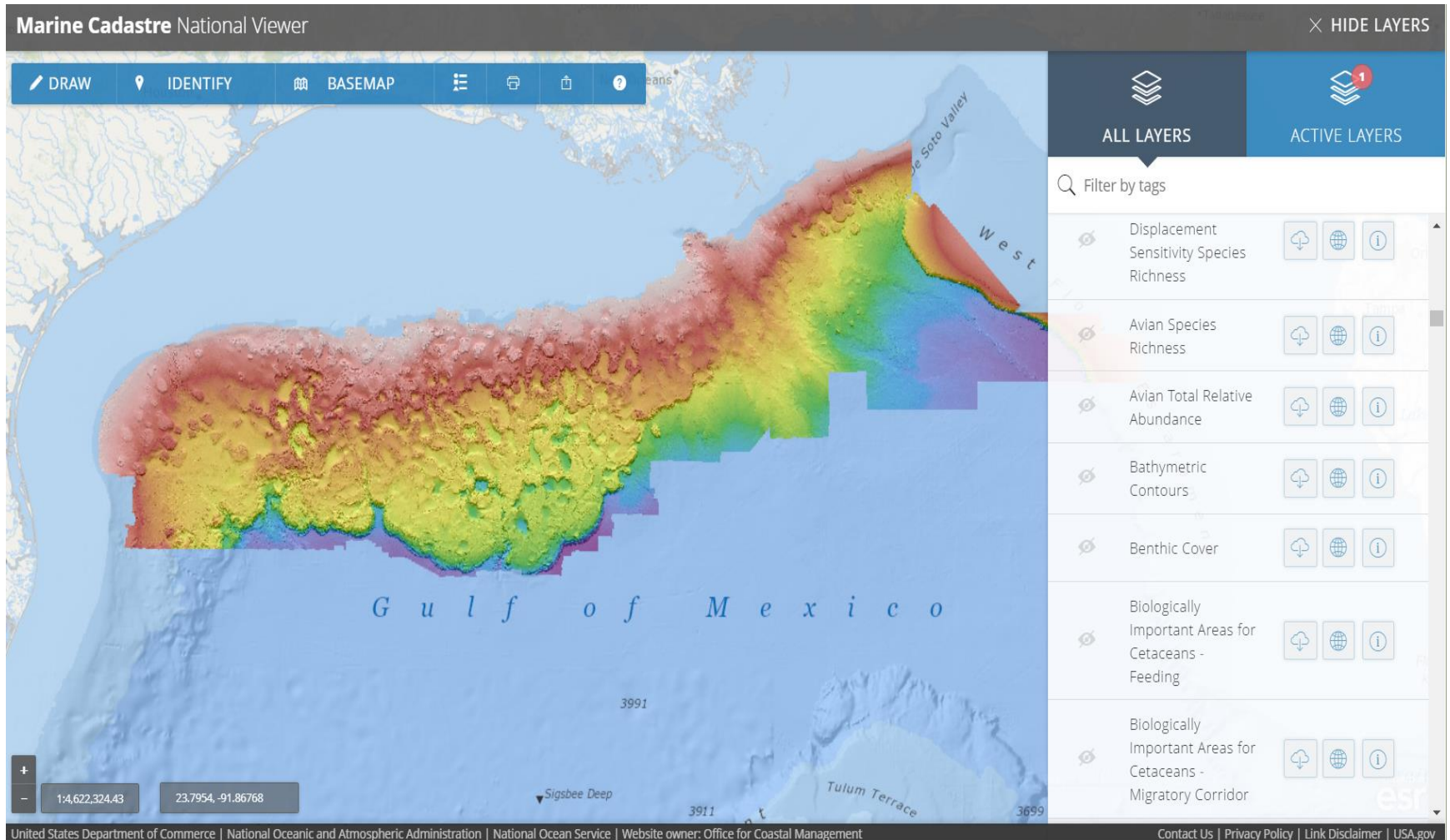
1. HOMEPAGE <https://www.boem.gov/>
2. MAPS AND GIS DATA: <https://www.boem.gov/Maps-and-GIS-Data/>
3. OTHER OFFSHORE DATA RESOURCES  
<https://www.boem.gov/Oil-and-Gas-Energy-Program/Mapping-and-Data/Additional-Data-Sources.aspx>
4. MAP GALLERY <https://www.boem.gov/Oil-and-Gas-Energy-Program/Mapping-and-Data/Map-Gallery/Index.aspx>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



# Marine Cadastre National Viewer

## Bathymetry

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

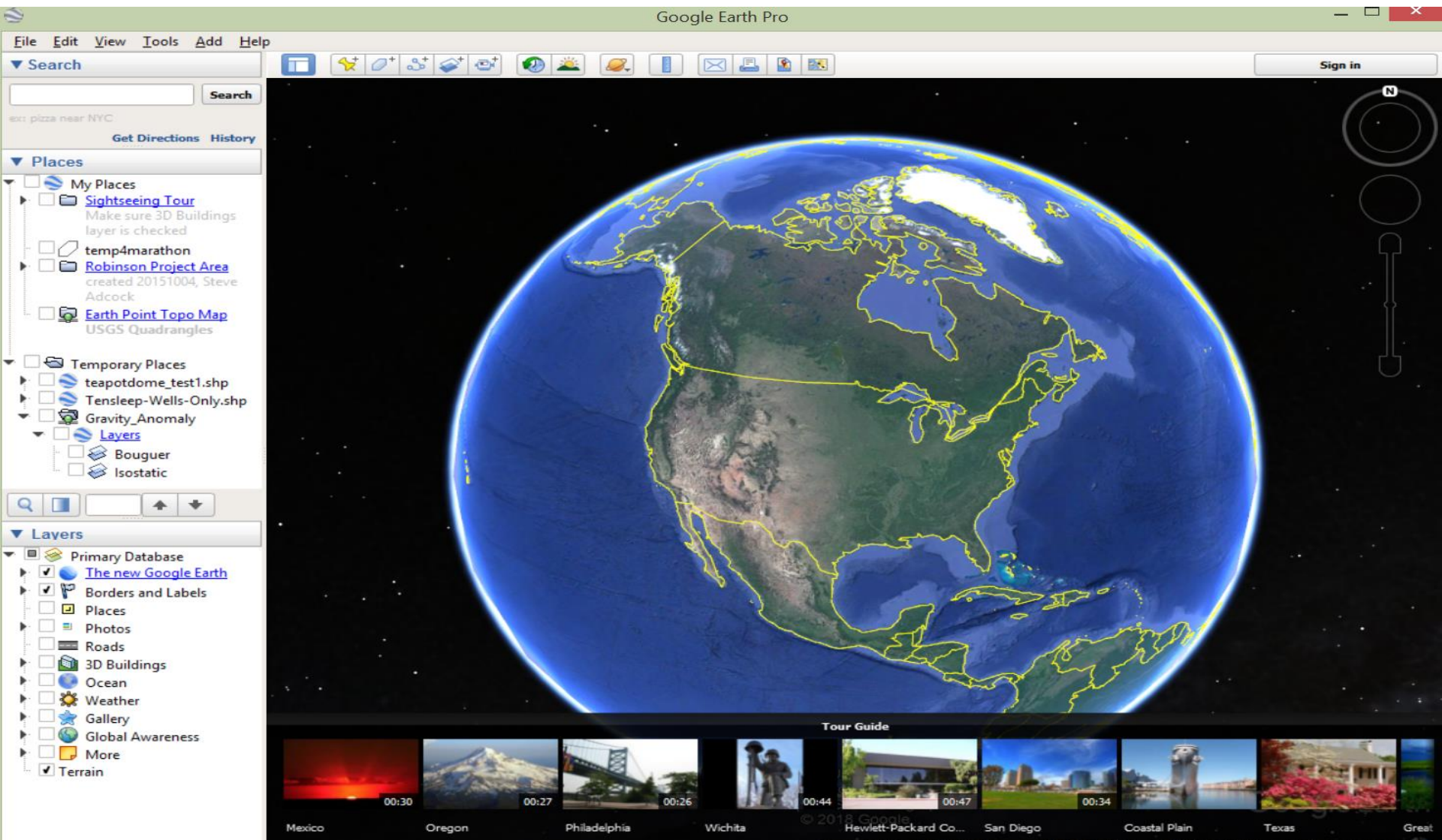


# RESOURCES





# 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?

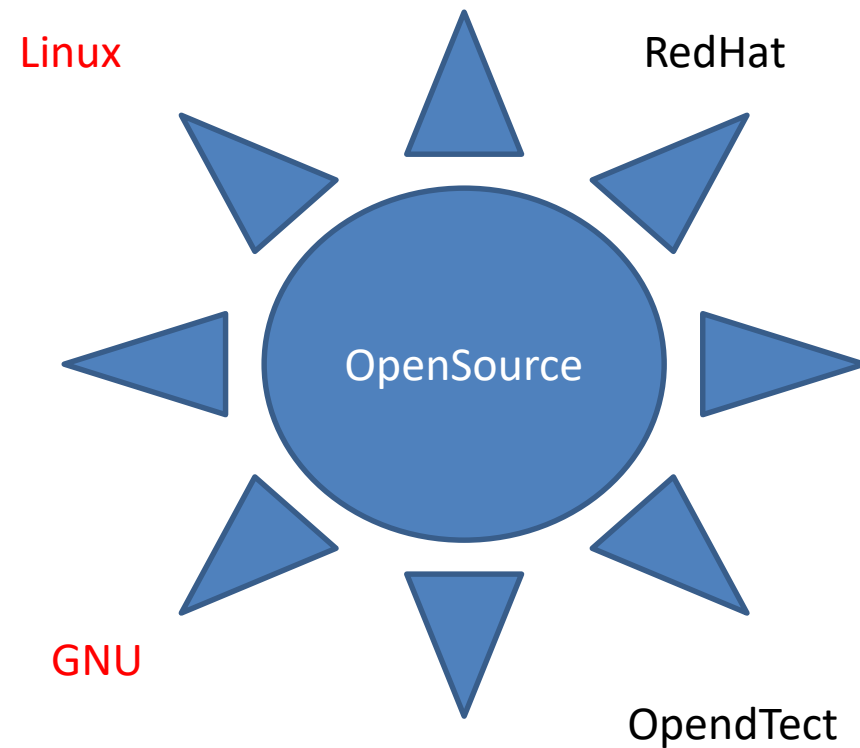
# Analog to Digital

- 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.

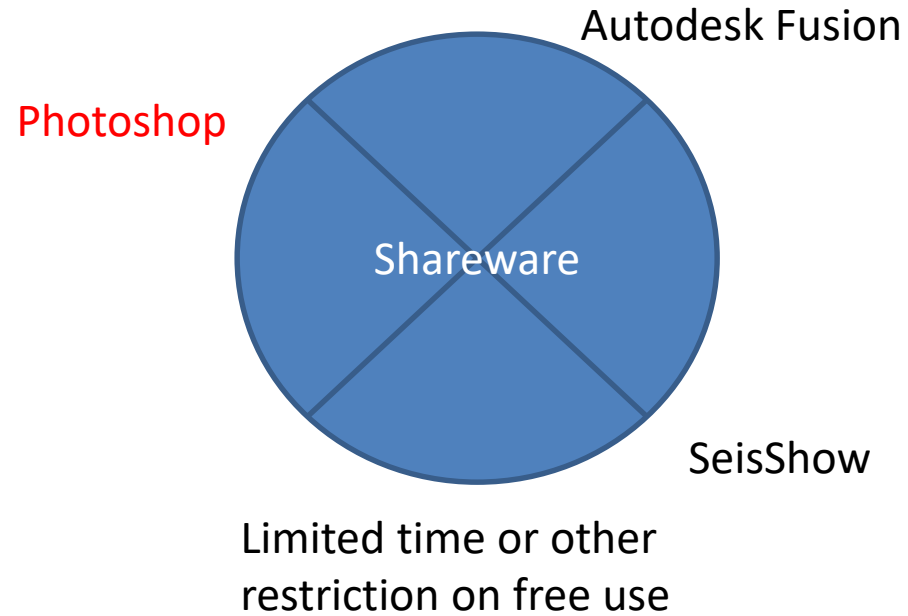


## OpenSource: code available

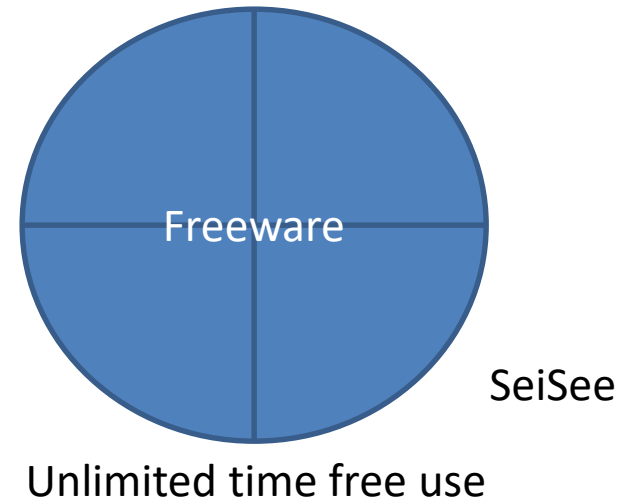
## Closed Source: code not available



Profit from sales of added value products, or donations



Skype



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!

