

# Oil and gas wells of Idaho: 1903-2022, Idaho Geological Survey Digital Database 3, Version 1.2023



**Tags** oil, gas, petroleum, petrogeology, economic geology, well, exploration, permit, log, LAS, drill, history, abandoned, analysis, chemistry, chemical, education, public data, web map service

## Summary

This feature class provides the locations and attributes for 214 oil and gas wells in Idaho.

## Description

This is a component of the Idaho Geological Survey publication, Digital Database 3: Database of oil and gas data of Idaho. This dataset represents information on current and historical oil and gas exploration wells in Idaho provided by companies to the Oil and Gas Commission from 1903-2022. This data was transferred to the Idaho Geological Survey in 2009 from the Idaho Department of Lands, who regulates and maintains data for recent/current oil and gas exploration in Idaho. These data were derived mostly from historical well paper logs and reports. This database also includes newly drilled and producing wells. Information for active wells is from journal articles, well permits from Idaho Department of Lands, and electric logs.

## Credits

New well data came from Idaho Department of Lands, electric logs, Rigzone.com, Oil and Gas Journal. Historic well data came from the Idaho Geological Survey publication DD-3 (2013), Historical Oil and Gas data for Idaho: 1903-1988. Data source for this 2023 release is Idaho Department of Lands and brings data current to 2022.

## Use limitations

Provided as-is for research purposes. Locations and attributes of wells are compiled from the assortment of source documents available at the time of publication. Revisions of this database will be issued as new information is added. Wells that were drilled from 2007 to present day have had their locations verified using the best available imagery. If a well was permitted but not drilled, the coordinates from the permit are provided.

## Extent

West -117.023782    East -111.070051  
North 47.813927    South 42.005267

## Scale Range

Maximum (zoomed in) 1:5,000  
Minimum (zoomed out) 1:150,000,000

## Topics and Keywords ►

Themes or categories of the resource    Economy

Content type    Downloadable Data

Export to FGDC CSDGM XML format as Resource Description    No

## Citation ►

Title Oil and gas wells of Idaho: 1903-2022, Idaho Geological Survey Digital Database 3, Version 1.2023

Publication date 2023-05-25 00:00:00

Presentation formats digital map

## Citation Contacts ►

Responsible party - originator

Individual's name Mark Barton

Responsible party - originator

Individual's name Reed Lewis

Responsible party - originator

Individual's name Christopher Tate

Responsible party - originator

Individual's name Jacob Eldredge

Responsible party - publisher

Organization's name Idaho Geological Survey

### Contact information ►

Phone

Voice 208-885-7991

Address

Type physical

Delivery point 875 Perimeter Dr.

City Moscow

Administrative area ID

Postal code 83844-3014

Country US

Delivery point Morrill Hall, 3rd Floor

## Resource Details ►

Dataset character set utf8 - 8 bit UCS Transfer Format

Status on-going

Credits

New well data came from Idaho Department of Lands, electric logs, Rigzone.com, Oil and Gas Journal. Historic well data came from the Idaho Geological Survey publication DD-3 (2013), Historical Oil and Gas data for Idaho: 1903-1988. Data source for this 2023 release is Idaho Department of Lands and brings data current to 2022.

ArcGIS item properties

## Extents ►

Extent

Description

Intermittent permitting and drilling of oil and gas wells.

Geographic extent

Bounding rectangle

Extent type

#### Extent used for searching

West longitude -117.023782  
East longitude -111.070051  
North latitude 47.813927  
South latitude 42.005267

#### Temporal extent

Beginning date 1903-01-01 00:00:00  
Ending date 2022-02-28 00:00:00

## Resource Points of Contact ►

### Point of contact - publisher

Organization's name Idaho Geological Survey

### Contact information ►

#### Phone

Voice 208-885-7991

#### Address

Type physical  
Delivery point 875 Perimeter Dr.  
City Moscow  
Administrative area ID  
Postal code 83844-3014  
Country US  
Delivery point Morrill Hall, 3rd Floor

## Resource Maintenance ►

### Resource maintenance

Update frequency as needed

## Resource Constraints ►

### Constraints

#### Limitations of use

Provided as-is for research purposes. Locations and attributes of wells are compiled from the assortment of source documents available at the time of publication. Revisions of this database will be issued as new information is added. Wells that were drilled from 2007 to present day have had their locations verified using the best available imagery. If a well was permitted but not drilled, the coordinates from the permit are provided.

### Legal constraints

#### Limitations of use

The Idaho Geological Survey does not assume liability; no warranty expressed or implied is made by the Agency regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty.

## Data Quality ►

### Scope of quality information ►

Resource level dataset

### Data quality report - Conceptual consistency ►

Data quality measure reference

## Measure description

Wells and their attributes are assigned by IGS Staff. Data presented here represent the best known information for these wells.

### Data quality report - Completeness omission ▶

#### Data quality measure reference

##### Measure description

All well locations were visually checked against original maps, imagery, and other location data for completeness.

### Data quality report - Quantitative attribute accuracy ▶

#### Data quality measure reference

##### Measure description

Attributes in this dataset were derived by IGS staff from files acquired from the Idaho Department of Lands in 2009. Additional data was added from IGS files associated with oil and gas.

#### Quality evaluation procedure

Evaluation type direct internal

Evaluation method

Document review.

### Data quality report - Absolute external positional accuracy ▶

dimension horizontal

#### Data quality measure reference

##### Measure description

Wells were plotted on a 1:24,000 base using measurements provided in sundry reports and applications.

Locations are approximate if permitted but not drilled.

## Lineage ▶

### Process step ▶

When the process occurred 2009-08-01 00:00:00

Description

Acquired paper files from Idaho Department of Lands.

### Process step ▶

When the process occurred 2010-08-01 00:00:00

Description

Scanned letter sized documentation.

### Process step ▶

When the process occurred 2010-09-01 00:00:00

Description

Added attributes for wells from scanned data.

### Process step ▶

When the process occurred 2010-10-01 00:00:00

Description

Created Lat/Lon locations in decimal degrees from plotting locations or measured from topo map.

Process step ▶

When the process occurred 2010-11-01 00:00:00

Description

Scanned geophysical logs (scanned at LogDigi).

Process step ▶

When the process occurred 2011-03-01 00:00:00

Description

Added attributes for log information from scanned data.

Process step ▶

When the process occurred 2011-04-01 00:00:00

Description

Created point shapefile from Lat/Lon locations in decimal degrees from table (excel file).

Process step ▶

When the process occurred 2013-04-23 00:00:00

Description

Published DD-3

Process step ▶

When the process occurred 2020-11-09 00:00:00

Description

Update DD-3 records and fields. Add recent oil and gas wells.

Process step ▶

When the process occurred 2023-02-22 00:00:00

Description

Update DD-3 records and fields. Add recent oil and gas wells. Add new log type, logs, documents, and LAS files for recently permitted wells.

Process step ▶

When the process occurred 2023-05-15 00:00:00

Description

Update DD-3 records and field names. Remove redundant fields. Add recent oil and gas wells. Verify and correct accuracy of well coordinates in WGS84 and NAD27.

Process step ▶

When the process occurred 2023-05-25 00:00:00

Description

Publish new DD-3.

Source data ▶

Description

These records include information on past oil and gas exploration wells in Idaho from 1903 to 1988 provided by companies to the Oil and Gas Conservation Commission. These data were derived mostly from historical well paper logs and reports. This data was transferred to the Idaho Geological Survey in 2009 from the Idaho Department of Lands. Data from wells that were permitted from 2007 to the present comes from Idaho Department of Lands and the Oil and Gas Conservation Commission.

## Distribution ►

### Distributor ►

Contact information - publisher

Organization's name Idaho Geological Survey

### Contact information ►

#### Phone

Voice 208-885-7991

#### Address

Type physical

Delivery point 875 Perimeter Dr.

City Moscow

Administrative area ID

Postal code 83844-3014

Country US

Delivery point Morrill Hall, 3rd Floor

## Fields ►

### Details for object Details for OilGasWells ►

Type Feature Class

Definition

Oil and gas well point data

Definition source

Idaho Geological Survey

### Field ID ►

Data type OID

Width 4

Field description

Internal feature number.

Description source

ESRI

### Field API ►

Data type Text

Width 255

Field description

The American Petroleum Institute number is a unique number used nationally to track and identify every permitted oil and gas well. First two digits are state, next 3 digits are county, last five digits are permit serial number.

Description source

IGS

Field IGS\_num ►

Data type Text  
Width 255

Field description

Idaho Geological Survey well identification number. IGS number has the following format (xxxx-xx): First four digits are the year in which the well was permitted, last two digits correspond to the order in which the permits were issued.

Description source

IGS

Field Operator ►

Data type Text  
Width 255

Field description

Company listed on the well permit.

Description source

IGS

Field WellName ►

Data type Text  
Width 255

Field description

Name of well listed on permit.

Description source

IGS

Field WellStatus ►

Data type Text  
Width 255

Field description

Oil and Gas producing well, Shut-in, Abandoned (plugged status unknown), Plugged and Abandoned, currently used as an artesian well, currently used as a geothermal well.

Description source

IGS

Field WellType ►

Data type Text  
Width 255

Field description

Oil and Gas well, Geothermal well, Water Well, Stratigraphic test well.

Description source  
IGS

Field LatitudeNAD27 ►  
Data type Double  
Width 8

Field description  
Latitude of well location based on NAD27 datum.

Description source  
IGS

Field LongitudeNAD27 ►  
Data type Double  
Width 8

Field description  
Longitude of well location based on NAD27 datum.

Description source  
IGS

Field LatitudeWGS84 ►  
Data type Double  
Width 8

Field description  
Latitude of well location based on WGS84 datum.

Description source  
IGS

Field LongitudeWGS84 ►  
Data type Double  
Width 8

Field description  
Longitude of well location based on WGS84 datum.

Description source  
IGS

Field CompletionStatus ►  
Data type Text  
Width 255

Field description  
Y = subsurface zone completed, N = well not completed or status unknown.

Description source



IGS

Field Drilled ►

Data type Text  
Width 255

Field description  
Y= well was drilled, N = well was permitted but not drilled.

Description source  
IGS

Field DrillingFluid ►

Data type Text  
Width 255

Field description  
O indicates an oil based drilling fluid used, W indicates a water based drilling fluid was used, U indicates drilling fluid type is unknown.

Description source  
IGS

Field EndDrillDate ►

Data type Text  
Width 255

Field description  
Date in which the drilling of the well was completed.

Description source  
IGS

Field SpudDate ►

Data type Text  
Width 255

Field description  
Estimated date well was spudded.

Description source  
IGS

Field HydrocarbonType ►

Data type Text  
Width 255

Field description  
Oil show reported, Gas show reported, Cuttings Fluorescence reported, No show reported.

Description source

IGS

Field GeophysicalLogs ►

Data type Text  
Width 255

Field description

Y geophysical wireline logs for the well exist. N indicates the existence of logs are not known.

Description source

IGS

Field LASFiles ►

Data type Text  
Width 255

Field description

Y indicates digital LAS Files of logs are available from the IGS website, N means LAS files are not available from the IGS website, C indicates public distribution of LAS files are restricted for a year after the well has been drilled.

Description source

IGS

Field PaperLogs ►

Data type Text  
Width 255

Field description

Y indicates copies of the wireline logs are available from the IGS website.

Description source

IGS

Field DirSurvey ►

Data type Text  
Width 255

Field description

Y indicates Directional Survey is available from the IGS website.

Description source

IGS

Field MudLog ►

Data type Text  
Width 255

Field description

Y indicates Mud Log is available from the IGS website.

Description source

IGS

Field DiplLog ▶

Data type Text  
Width 255

Field description

Y indicates Dip Log is available from the IGS website, N indicates Dip does not exist or copy is not available from IGS.

Description source

IGS

Field TempLog ▶

Data type Text  
Width 255

Field description

Y indicates a Temperature Log available from IGS website.

Description source

IGS

Field LithLogType ▶

Data type Text  
Width 255

Field description

Indicates the types of Lithologic Logs available from the IGS website.

Description source

IGS

Field DST ▶

Data type Text  
Width 255

Field description

Y indicates a Drill Stem Report (DST) available from IGS website.

Description source

IGS

Field HCA ▶

Data type Text  
Width 255

Field description

Y indicates a Hydrocarbon Analysis (HCA) is available from the IGS website.

Description source

IGS

Field BHP ►

Data type Text  
Width 255

Field description

Y indicates a Bottom Hole Pressure (BHP) Log is available from the IGS website.

Description source

IGS

Field Cuttings ►

Data type Text  
Width 255

Field description

Agency where cuttings reside. N indicates unknown existence of any cuttings.

Description source

IGS

Field Core ►

Data type Text  
Width 255

Field description

Indicates drill cores were taken, how many, and at what intervals. Core logs are available from the IGS website.

Description source

IGS

Field CountyAPI ►

Data type Long  
Width 4

Field description

County code portion of the API number.

Description source

IGS

Field County ►

Data type Text  
Width 255

Field description

County name.

Description source

IGS

Field plssTownship ►

Data type Text  
Width 255

Field description  
PLSS Township code.

Description source  
IGS

Field plssRange ►

Data type Text  
Width 255

Field description  
PLSS Range code.

Description source  
IGS

Field plssSection ►

Data type Long  
Width 4

Field description  
PLSS Section Number.

Description source  
IGS

Field plssQQSection ►

Data type Text  
Width 255

Field description  
PLSS (quarter) quarter section code. For example, NW SE would be read as: the northwest quarter of the southeast quarter of the section.

Description source  
IGS

Field FNL ►

Data type Double  
Width 8

Field description  
Distance north of section boundary to well location in feet according to permit.

Description source  
IGS

Field FEL ▶

Data type Double

Width 8

Field description

Distance east of section boundary to well location in feet according to permit.

Description source

IGS

Field FSL ▶

Data type Double

Width 8

Field description

Distance south of section boundary to well location in feet according to permit.

Description source

IGS

Field FWL ▶

Data type Double

Width 8

Field description

Distance west of section boundary to well location in feet according to permit.

Description source

IGS

Field GroundElevation ▶

Data type Double

Width 8

Field description

Ground elevation above sea level in feet.

Description source

IGS

Field KellyBushing ▶

Data type Double

Width 8

Field description

Kelly bushing elevation above sea level in feet.

Description source

IGS

#### Field TotalDepth ►

Data type Double  
Width 8

Field description  
Measured depth of well below ground elevation.

Description source  
IGS

#### Field FieldName ►

Data type Text  
Width 255

Field description  
Name of oil/gas field name as designated by the Idaho Department of Lands. Wildcat refers to wells drilled outside of a known oil/gas field.

Description source  
IGS

#### Field IBMG\_num ►

Data type Text  
Width 255

Field description  
Retired identification code used by Idaho Bureau of Mines and Geology (now Idaho Geological Survey).

Description source  
IGS

### Metadata Details ►

Metadata character set utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata dataset

Last update ⇔ 2023-05-25

#### ArcGIS metadata properties

Metadata format ArcGIS 1.0  
Standard or profile used to edit metadata FGDC

Created in ArcGIS for the item 2023-05-24 12:14:39

Automatic updates  
Have been performed No

### Metadata Contacts ►

Metadata contact - publisher  
Organization's name Idaho Geological Survey

Contact information ►

Phone

Voice 208-885-7991

Address

Type physical

Delivery point 875 Perimeter Dr.

City Moscow

Administrative area ID

Postal code 83844-3014

Country US

Delivery point Morrill Hall, 3rd Floor

**Metadata Maintenance** ►

Maintenance

Update frequency as needed

**Thumbnail and Enclosures** ►

Thumbnail

Thumbnail type

Image file