

# MS Oil and Gas Wells 2016

## Shapefile



## Tags

Well, homeland security, homeland defense, emergency response, Oil Well, Natural Gas Well, Storage Well, name, type, status, facility characteristics

## Summary

This feature class/shapefile contains Oil and Natural Gas Wells for the Homeland Infrastructure Foundation-Level (HIFLD) Database (<https://gii.dhs.gov/HIFLD>) as well as the Energy modeling and simulation community.

## Description

This feature class/shapefile represents Oil and Natural Gas Wells. An Oil and Natural Gas Well is a hole drilled in the earth for the purpose of finding or producing crude oil or natural gas; or producing services related to the production of crude or natural gas. Geographic coverage includes. According to the Energy Information Administration (EIA) the following states do not have active/producing Oil or Natural Gas Wells: Some states do have wells for underground Natural Gas storage facilities where these have been identified they were included. This layer is derived from well data from individual states and provinces and United States Agencies. This layer is complete for the United States but further development of data missing from two Canadian provinces and Mexico is in process. \*\*\* MARIS extracted the Mississippi portion July 2023

## Credits

Oak Ridge National Laboratory (ORNL), Argonne National Laboratory (ANL), Decision and Infrastructure Sciences Division, National Geospatial-Intelligence Agency (NGA) Homeland Security Infrastructure Program (HSIP) Team, MARIS

## Use limitations

None (Public Use). Users are advised to read the data set's metadata thoroughly to understand appropriate uses and data limitations.

## Extent

**West** -91.679745    **East** -88.229136

**North** 34.487966    **South** 30.226947

## Scale Range

**Maximum (zoomed in)** 1:5,000

**Minimum (zoomed out)** 1:150,000,000

[ArcGIS Metadata](#) ►

[Topics and Keywords](#) ►

THEMES OR CATEGORIES OF THE RESOURCE [utilitiesCommunication](#)

\* CONTENT TYPE [Downloadable Data](#)  
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION [No](#)

[Hide Topics and Keywords ▲](#)

## Citation ►

TITLE [MS Oil and Gas Wells 2016](#)  
PUBLICATION DATE [2023-07-26 00:00:00](#)

PRESENTATION FORMATS [\\* digital map](#)

[Hide Citation ▲](#)

## Resource Details ►

DATASET LANGUAGES [\\* English \(UNITED STATES\)](#)

SPATIAL REPRESENTATION TYPE [\\* vector](#)

\* PROCESSING ENVIRONMENT [Version 6.2 \(Build 9200\) ; Esri ArcGIS 10.9.1.28388](#)

### CREDITS

Oak Ridge National Laboratory (ORNL), Argonne National Laboratory (ANL), Decision and Infrastructure Sciences Division, National Geospatial-Intelligence Agency (NGA) Homeland Security Infrastructure Program (HSIP) Team, MARIS

### ARCGIS ITEM PROPERTIES

\* NAME [MS\\_OilnGaswells\\_2016](#)  
\* SIZE [0.148](#)  
\* LOCATION [file:///\\DESKTOP-TP9LNVL\F\\$\DATA\00\\_UTILITYCOMM\Oil&Gas\MS\\_OilnGaswells\\_2016.shp](#)  
\* ACCESS PROTOCOL [Local Area Network](#)

[Hide Resource Details ▲](#)

## Extents ►

### EXTENT

#### GEOGRAPHIC EXTENT

##### BOUNDING RECTANGLE

EXTENT TYPE [Extent used for searching](#)

\* WEST LONGITUDE [-91.679745](#)

\* EAST LONGITUDE [-88.229136](#)

\* NORTH LATITUDE [34.487966](#)

\* SOUTH LATITUDE [30.226947](#)

\* EXTENT CONTAINS THE RESOURCE [Yes](#)

### EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE [322731.900395](#)

\* EAST LONGITUDE [639694.646598](#)

\* SOUTH LATITUDE [1049449.856741](#)

\* NORTH LATITUDE [1520455.223436](#)

\* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Constraints ►

CONSTRAINTS  
LIMITATIONS OF USE

None (Public Use). Users are advised to read the data set's metadata thoroughly to understand appropriate uses and data limitations.

[Hide Resource Constraints ▲](#)

## Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- \* TYPE Projected
- \* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983
- \* PROJECTION NAD\_1983\_Mississippi\_TM
- \* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102609  
X ORIGIN -5122200  
Y ORIGIN -12297100  
XY SCALE 450339697.45066422  
Z ORIGIN -100000  
Z SCALE 10000  
M ORIGIN -100000  
M SCALE 10000  
XY TOLERANCE 0.001  
Z TOLERANCE 0.001  
M TOLERANCE 0.001  
HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 3814

WELL-KNOWN TEXT

PROJCS["NAD\_1983\_Mississippi\_TM",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse\_Mercator"],PARAMETER["False\_Easting",500000.0],PARAMETER["False\_Northing",1300000.0],PARAMETER["Central\_Meridian",-89.75],PARAMETER["Scale\_Factor",0.9998335],PARAMETER["Latitude\_Of\_Origin",32.5],UNIT["Meter",1.0],AUTHORITY["EPSG",3814]]

REFERENCE SYSTEM IDENTIFIER

- \* VALUE 3814
- \* CODESPACE EPSG
- \* VERSION 6.17.1(10.0.0)

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

## VECTOR ►

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

### GEOMETRIC OBJECTS

FEATURE CLASS NAME MS\_OilnGaswells\_2016

\* OBJECT TYPE point

\* OBJECT COUNT 5530

[Hide Vector ▲](#)

## ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME MS\_OilnGaswells\_2016

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Point

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 5530

\* SPATIAL INDEX TRUE

\* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

## Distribution ►

### DISTRIBUTION FORMAT

\* NAME Shapefile

VERSION 10.8.1

### TRANSFER OPTIONS

\* TRANSFER SIZE 0.148

[Hide Distribution ▲](#)

## Fields ►

### DETAILS FOR OBJECT MS\_OilnGaswells\_2016 ►

\* TYPE Feature Class

\* ROW COUNT 5530

#### DEFINITION

Attribute fields were populated using sources identified in the SOURCE field for the period covered in this Time Period metadata and other open source data. For string and date data types, NOT AVAILABLE values denote missing data that was not present in the source data while NOT APPLICABLE values denote that the field does not apply for the specific case. For numeric data types, -999 denotes missing data that was not present in the source data. However, the missing data may be present in other sources not yet discovered and used in the creation and/or maintenance of this dataset. These records may be populated with valid information in future update cycles.

DEFINITION SOURCE

Argonne National Laboratory

FIELD FID ►

\* ALIAS FID

\* DATA TYPE OID

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

\* FIELD DESCRIPTION

Internal feature number.

\* DESCRIPTION SOURCE

Esri

\* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

*Hide Field FID ▲*

FIELD OBJECTID ►

\* ALIAS OBJECTID

\* DATA TYPE Integer

\* WIDTH 10

\* PRECISION 10

\* SCALE 0

FIELD DESCRIPTION

Internal feature number.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

*Hide Field OBJECTID ▲*

FIELD SHAPE ►

\* ALIAS Shape

\* DATA TYPE Geometry

\* WIDTH 0

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Feature geometry.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Coordinates defining the features.

*Hide Field SHAPE ▲*

FIELD ID ►

\* ALIAS ID

\* DATA TYPE String

\* WIDTH 20

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Unique identifier for each feature. ID values are unique to this dataset ONLY and may have changed from the previous versions of the dataset, and/or change in a future version of the dataset.

DESCRIPTION SOURCE

Argonne National Laboratory

DESCRIPTION OF VALUES

id

*Hide Field ID ▲*

FIELD NAME ►

\* ALIAS NAME

\* DATA TYPE String

\* WIDTH 150

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Feature name.

DESCRIPTION SOURCE

The responsible organization as identified in the SOURCE field.

DESCRIPTION OF VALUES

name

*Hide Field NAME ▲*

FIELD TYPE ►

- \* ALIAS TYPE
- \* DATA TYPE String
- \* WIDTH 85
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Specific categorical breakdown of the feature.

DESCRIPTION SOURCE

Originator defined

DESCRIPTION OF VALUES

type

*Hide Field TYPE ▲*

FIELD STATUS ►

- \* ALIAS STATUS
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Operational status of the feature.

DESCRIPTION SOURCE

Argonne National Laboratory

LIST OF VALUES

VALUE ACTIVE WELL

DESCRIPTION Feature is an active well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE NON-ACTIVE WELL

DESCRIPTION Feature is a non-active well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE PRODUCING, NON-ACTIVE WELL

DESCRIPTION Feature is a producing, non-active well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE UNKNOWN WELL

DESCRIPTION Status of the feature is unknown.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE WELL DEVELOPMENT

DESCRIPTION Feature is for well development.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE STORAGE WELL/MAINTENTANCE WELL/OBSERVATION WELL  
DESCRIPTION Feature is a storage well, maintenance well, or observation well.  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE PRODUCING WELL  
DESCRIPTION Feature is a producing well.  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

*Hide Field STATUS ▲*

FIELD COUNTY ►

- \* ALIAS COUNTY
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

United States and its Territories county name and legal/statistical area description (county, borough, parish, municipality, census area), Canada (province, territory), and Mexico (municipality).

DESCRIPTION SOURCE

Argonne National Laboratory

CODED VALUES

NAME OF CODELIST United States County, Canadian Province, Mexican Municipality  
SOURCE When the county name is available from a specific source, the contents are replicated from the SOURCE. Otherwise, ANL assigns the value based on open source searches.

*Hide Field COUNTY ▲*

FIELD COUNTYFIPS ►

- \* ALIAS COUNTYFIPS
- \* DATA TYPE String
- \* WIDTH 20
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

US County Federal Information Processing Standards (FIPS) Code (5 digit), Canada Standard Geographical Classification (SGC) Code (7 digit), and Mexico National Institute of Statistics and Geography (INEGI) Code (5 digit).

DESCRIPTION SOURCE

Argonne National Laboratory

CODED VALUES

NAME OF CODELIST 2010 FIPS Codes for Counties and County Equivalent Entities, Standard Geographical Classification 2011, and INEGI National Geostatistical Framework  
SOURCE FIPS/Census (<http://www.census.gov/geo/reference/codes/cou.html>), Statistics Canada (<http://www.statcan.gc.ca/pub/92-195-x/2011001/other-autre/sgc-cgt/sgc-cgt->



eng.htm), and Marco Geoestadístico Nacional  
(<http://www.inegi.org.mx/geo/contenidos/geoestadistica/default.aspx>).

[Hide Field COUNTYFIPS ▲](#)

FIELD [LATITUDE ▶](#)

- \* ALIAS LATITUDE
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

The angular distance north or south from the equator on the earth's surface.

DESCRIPTION SOURCE

Argonne National Laboratory

RANGE OF VALUES

MINIMUM VALUE 25.880895  
MAXIMUM VALUE 71.069597  
UNITS OF MEASURE Decimal Degrees

[Hide Field LATITUDE ▲](#)

FIELD [LONGITUDE ▶](#)

- \* ALIAS LONGITUDE
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

The angular distance east or west from the prime meridian on the earth's surface.

DESCRIPTION SOURCE

Argonne National Laboratory

RANGE OF VALUES

MINIMUM VALUE -74.457660  
MAXIMUM VALUE -160.023750  
UNITS OF MEASURE Decimal Degrees

[Hide Field LONGITUDE ▲](#)

FIELD [NAICS\\_CODE ▶](#)

- \* ALIAS NAICS\_CODE
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

The North American Industry Classification System (NAICS) code is the standard used by Federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the US business economy.

DESCRIPTION SOURCE

Argonne National Laboratory

CODED VALUES

NAME OF CODELIST North American Industry Classification System, 2017

SOURCE US Census (<http://www.census.gov/eos/www/naics/>)

*Hide Field NAICS\_CODE ▲*

FIELD NAICS\_DESC ►

\* ALIAS NAICS\_DESC

\* DATA TYPE String

\* WIDTH 100

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

North American Industry Classification System (NAICS) definition is the standard used by Federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the US business economy.

DESCRIPTION SOURCE

Argonne National Laboratory

CODED VALUES

NAME OF CODELIST North American Industry Classification System

SOURCE Office of Management and Budget (<http://www.census.gov/eos/www/naics/>)

*Hide Field NAICS\_DESC ▲*

FIELD SOURCE ►

\* ALIAS SOURCE

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Original source used to identify geospatial location and/or attribution for the feature.

DESCRIPTION SOURCE

Argonne National Laboratory

DESCRIPTION OF VALUES

source

[Hide Field SOURCE ▲](#)

FIELD [SOURCEDATE ▶](#)

- \* ALIAS SOURCEDATE
- \* DATA TYPE Date
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Date of source, or, if not available, the date ANL accessed the source.

DESCRIPTION SOURCE

Argonne National Laboratory

RANGE OF VALUES

MINIMUM VALUE 08/30/1999  
MAXIMUM VALUE 01/08/2019  
UNITS OF MEASURE Date

[Hide Field SOURCEDATE ▲](#)

FIELD [VAL\\_METHOD ▶](#)

- \* ALIAS VAL\_METHOD
- \* DATA TYPE String
- \* WIDTH 85
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Methodology used to validate geospatial location and/or attribution for the feature.

DESCRIPTION SOURCE

Argonne National Laboratory

LIST OF VALUES

VALUE GEOCODE

DESCRIPTION Street address geocoding used to determine the location.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE IMAGERY

DESCRIPTION The best available imagery used to determine the location.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE IMAGERY/OTHER

DESCRIPTION Imagery and supplemental open source information used to determine the location.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE OTHER

DESCRIPTION Aggregated open source information used to determine/verify attribution and locational information for the feature.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE UNVERIFIED

DESCRIPTION Feature could not be located or the feature has not yet been validated.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

[Hide Field VAL\\_METHOD ▲](#)

FIELD VAL\_DATE ►

\* ALIAS VAL\_DATE

\* DATA TYPE Date

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Date when geospatial location and/or attribution were last validated for the feature.

DESCRIPTION SOURCE

Argonne National Laboratory

RANGE OF VALUES

MINIMUM VALUE 11/12/2014

MAXIMUM VALUE 06/17/2019

UNITS OF MEASURE Date

[Hide Field VAL\\_DATE ▲](#)

FIELD WEBSITE ►

\* ALIAS WEBSITE

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

The feature specific website.

DESCRIPTION SOURCE

Argonne National Laboratory

DESCRIPTION OF VALUES

URL

[Hide Field WEBSITE ▲](#)

FIELD WELLIDNO ►

\* ALIAS WELLIDNO

\* DATA TYPE String

\* WIDTH 20

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Well ID number assigned to the feature by the appropriate State or Province agency.

DESCRIPTION SOURCE

The responsible organization as identified in the SOURCE field.

DESCRIPTION OF VALUES

ID number

*Hide Field WELLIDNO ▲*

FIELD API ►

\* ALIAS API

\* DATA TYPE String

\* WIDTH 20

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

American Petroleum Institute (API) well number which is a "unique, permanent, numeric identifier" assigned to each feature drilled for oil and gas in the United States.

DESCRIPTION SOURCE

American Petroleum Institute

DESCRIPTION OF VALUES

well number

*Hide Field API ▲*

FIELD PERMITNO ►

\* ALIAS PERMITNO

\* DATA TYPE Double

\* WIDTH 19

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

The feature's permit number, if different from well ID number.

DESCRIPTION SOURCE

The responsible organization as identified in the SOURCE field.

DESCRIPTION OF VALUES

permit number

*Hide Field PERMITNO ▲*

FIELD OPERATOR ►

- \* ALIAS OPERATOR
- \* DATA TYPE String
- \* WIDTH 75
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Feature operator name.

DESCRIPTION SOURCE

The responsible organization as identified in the SOURCE field.

DESCRIPTION OF VALUES

name

*Hide Field OPERATOR ▲*

FIELD OPERATORID ►

- \* ALIAS OPERATORID
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Operator ID number for the feature, if available from the appropriate State agency.

DESCRIPTION SOURCE

The responsible organization as identified in the SOURCE field.

DESCRIPTION OF VALUES

operator id

*Hide Field OPERATORID ▲*

FIELD PRODTYPE ►

- \* ALIAS PRODTYPE
- \* DATA TYPE String
- \* WIDTH 25
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Indicates the primary commodity of the feature. For example whether a feature is "DRY GAS" or "OIL" or "GAS-OIL", etc.

DESCRIPTION SOURCE

The responsible organization as identified in the SOURCE field.

#### LIST OF VALUES

VALUE GAS AND OIL

DESCRIPTION The feature is a gas and oil well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

VALUE OIL INJECTION

DESCRIPTION The feature is an oil injection well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

VALUE OIL

DESCRIPTION The feature is an oil well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

VALUE GAS CONDENSATE

DESCRIPTION The feature is a gas condensate well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

VALUE COAL BED METHANE GAS

DESCRIPTION The feature is a coal bed methane gas well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

VALUE GAS INJECTION

DESCRIPTION The feature is a gas injection well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

VALUE UNKNOWN WELL

DESCRIPTION The primary commodity of the feature is unknown.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

VALUE GAS OR OIL

DESCRIPTION The feature is a gas or oil well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

VALUE NATURAL GAS LIQUIDS

DESCRIPTION The feature is a natural gas liquids well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

VALUE SALT WATER INJECTION

DESCRIPTION The feature is a salt injection well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

VALUE GAS

DESCRIPTION The feature is a gas well.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** The responsible organization as identified in the SOURCE field.

**VALUE GAS STORAGE PRODUCING**

**DESCRIPTION** The feature is a gas storage producing well.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** The responsible organization as identified in the SOURCE field.

**VALUE GAS STORAGE**

**DESCRIPTION** The feature is a gas storage well.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** The responsible organization as identified in the SOURCE field.

**VALUE INJECTION GAS OR OIL Gas**

**DESCRIPTION** The feature is a gas or oil injection well.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** The responsible organization as identified in the SOURCE field.

**VALUE SHALE GAS**

**DESCRIPTION** The feature is shale gas well.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** The responsible organization as identified in the SOURCE field.

**VALUE DRY GAS**

**DESCRIPTION** The feature is a dry gas well.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** The responsible organization as identified in the SOURCE field.

**VALUE LIQUEFIED PETROLEUM GAS**

**DESCRIPTION** The feature is a liquid petroleum gas well.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** The responsible organization as identified in the SOURCE field.

**VALUE GAS AND OIL STORAGE**

**DESCRIPTION** The feature is a gas and oil storage well.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** The responsible organization as identified in the SOURCE field.

**VALUE GAS AND OIL STORAGE**

**DESCRIPTION** The feature is a gas and oil storage well.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** The responsible organization as identified in the SOURCE field.

**VALUE GAS STORAGE (CAVERN)**

**DESCRIPTION** The feature is a gas storage cavern well.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** The responsible organization as identified in the SOURCE field.

**VALUE GAS STORAGE (RESERVOIR)**

**DESCRIPTION** The feature is a gas storage reservoir well.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** The responsible organization as identified in the SOURCE field.

**VALUE OIL STORAGE**

**DESCRIPTION** The feature is an oil storage well.



ENUMERATED DOMAIN VALUE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

VALUE DRY GAS

DESCRIPTION The feature is a dry gas well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

VALUE GAS STORAGE PRODUCING

DESCRIPTION The feature is a gas storage producing well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

*Hide Field PRODTYPE ▲*

FIELD SURF\_LAT ►

\* ALIAS SURF\_LAT

\* DATA TYPE Double

\* WIDTH 19

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Surface Well hole latitude coordinate of the feature (decimal degrees).

DESCRIPTION SOURCE

Argonne National Laboratory

DESCRIPTION OF VALUES

latitude

*Hide Field SURF\_LAT ▲*

FIELD SURF\_LONG ►

\* ALIAS SURF\_LONG

\* DATA TYPE Double

\* WIDTH 19

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Surface Well hole longitude coordinate of the feature (decimal degrees).

DESCRIPTION SOURCE

Argonne National Laboratory

DESCRIPTION OF VALUES

longitude

*Hide Field SURF\_LONG ▲*

FIELD BOT\_LAT ►

- \* ALIAS BOT\_LAT
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Bottom Well hole (extraction point) latitude coordinate of the feature (decimal degrees).

DESCRIPTION SOURCE

Argonne National Laboratory

DESCRIPTION OF VALUES

latitude

*Hide Field BOT\_LAT ▲*

FIELD BOT\_LONG ►

- \* ALIAS BOT\_LONG
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Bottom Well hole (extraction point) longitude coordinate of the feature (decimal degrees).

DESCRIPTION SOURCE

Argonne National Laboratory

DESCRIPTION OF VALUES

longitude

*Hide Field BOT\_LONG ▲*

FIELD POSREL ►

- \* ALIAS POSREL
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

The level of accuracy and confidence in the feature location.

DESCRIPTION SOURCE

Argonne National Laboratory

LIST OF VALUES

VALUE WITHIN 40 FEET

DESCRIPTION Coordinates are within 40 feet of the site's actual location.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE WITHIN 1 MILE

DESCRIPTION Coordinates are within 1 mile of the site's actual location.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE EXCEEDS 1 MILE

DESCRIPTION Coordinates are farther than 1 mile from the site's actual location.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE WITHIN 166 FEET

DESCRIPTION Coordinates are within 166 feet of the site's actual location.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE NOTIONAL

DESCRIPTION The exact position is either unknown or determination is cost prohibitive.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

VALUE THIRD PARTY

DESCRIPTION Geospatial coordinates provided by a third party source. Revalidating the provided geolocations would not be cost effective.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Argonne National Laboratory

*Hide Field POSREL ▲*

FIELD FIELD ►

\* ALIAS FIELD

\* DATA TYPE String

\* WIDTH 50

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Name of Oil-Gas Field in which the feature is located.

DESCRIPTION SOURCE

The responsible organization as identified in the SOURCE field.

DESCRIPTION OF VALUES

field name

*Hide Field FIELD ▲*

FIELD COMPDATE ►

\* ALIAS COMPDATE

- \* DATA TYPE Date
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Completion date of the feature. If a COMPDATE was not provided in the original source data then the COMPDATE value will be shown as NULL.

DESCRIPTION SOURCE

The responsible organization as identified in the SOURCE field.

DESCRIPTION OF VALUES

date

*Hide Field COMPDATE ▲*

FIELD TOTDEPTH ►

- \* ALIAS TOTDEPTH
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Total depth (in feet) of the feature.

DESCRIPTION SOURCE

The responsible organization as identified in the SOURCE field.

RANGE OF VALUES

MINIMUM VALUE 0  
MAXIMUM VALUE 10000

*Hide Field TOTDEPTH ▲*

*Hide Details for object MS\_OilnGaswells\_2016 ▲*

OVERVIEW DESCRIPTION ►

ENTITY AND ATTRIBUTE OVERVIEW

The entity and attribute information provided here describes the tabular data associated with the data set. Please review the detailed descriptions that are provided (the individual attribute descriptions) for information on the values that appear as fields/table entries of the data set. Please see the "Processing Steps" section for further methodology. For string and date data types, NOT AVAILABLE values denote missing data that was not present in the source data while NOT APPLICABLE values denote that the field does not apply for the specific case. For numeric data types, -999 denotes missing data that was not present in the source data. However, the missing data may be present in other sources not yet discovered and used in the creation and/or maintenance of this dataset. These records may be populated with valid information in future update cycles.

ENTITY AND ATTRIBUTE DETAIL CITATION  
Argonne National Laboratory

[Hide Overview Description ▲](#)

[Hide Fields ▲](#)

## Metadata Details ►

- \* METADATA LANGUAGE English (UNITED STATES)
- \* METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA \* dataset  
SCOPE NAME \* dataset

\* LAST UPDATE 2023-07-27

### ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0  
METADATA STYLE ISO 19139 Metadata Implementation Specification  
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2023-07-26 10:07:38  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2023-07-27 90:05:50

### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
LAST UPDATE 2023-07-27 09:00:37

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

### METADATA CONTACT

INDIVIDUAL'S NAME Steve Walker  
ORGANIZATION'S NAME MARIS  
CONTACT'S POSITION GIS Operations Manager  
CONTACT'S ROLE distributor

[Hide Metadata Contacts ▲](#)

## Thumbnail and Enclosures ►

### THUMBNAIL

THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)

## FGDC Metadata (read-only) ▼

### CITATION

#### CITATION INFORMATION

ORIGINATOR Oak Ridge National Laboratory

ORIGINATOR Argonne National Laboratory

PUBLICATION DATE 2019-06-21

#### TITLE

MS Oil and Gas Wells 2016

GEOSPATIAL DATA PRESENTATION FORM Vector Digital Data Set (Point)

ONLINE LINKAGE <https://hifld-geoplatform.opendata.arcgis.com>

#### LARGER WORK CITATION

### CITATION INFORMATION

ORIGINATOR Homeland Infrastructure Foundation-Level (HIFLD) Subcommittee

PUBLICATION DATE 2019-07-09

#### TITLE

HIFLD Open and HIFLD Secure

GEOSPATIAL DATA PRESENTATION FORM GIS Data Project/Collection

### DESCRIPTION

#### ABSTRACT

This feature class/shapefile represents Oil and Natural Gas Wells. An Oil and Natural Gas Well is a hole drilled in the earth for the purpose of finding or producing crude oil or natural gas; or producing services related to the production of crude or natural gas. Geographic coverage includes. According to the Energy Information Administration (EIA) the following states do not have active/producing Oil or Natural Gas Wells: Some states do have wells for underground Natural Gas storage facilities where these have been identified they were included. This layer is derived from well data from individual states and provinces and United States Agencies. This layer is complete for the United States but further development of data missing from two Canadian provinces and Mexico is in process. MARIS extracted the MIssissippi portion July 2023

#### PURPOSE

This feature class/shapefile contains Oil and Natural Gas Wells for the Homeland Infrastructure Foundation-Level (HIFLD) Database (<https://gii.dhs.gov/HIFLD>) as well as the Energy modeling and simulation community.

#### SUPPLEMENTAL INFORMATION

None

#### TIME PERIOD OF CONTENT

#### TIME PERIOD INFORMATION

#### RANGE OF DATES/TIMES

BEGINNING DATE 1999-08-30

ENDING DATE 2019-01-08

#### STATUS

PROGRESS Complete

MAINTENANCE AND UPDATE FREQUENCY Continually

### KEYWORDS

#### THEME

THEME KEYWORD Well

THEME KEYWORD homeland security

THEME KEYWORD homeland defense

THEME KEYWORD emergency response

THEME KEYWORD Oil Well

THEME KEYWORD Natural Gas Well

THEME KEYWORD Storage Well

THEME KEYWORD name

THEME KEYWORD type  
THEME KEYWORD status  
THEME KEYWORD facility characteristics

PLACE

PLACE KEYWORD THESAURUS None  
PLACE KEYWORD Continental United States  
PLACE KEYWORD USA  
PLACE KEYWORD Canada  
PLACE KEYWORD Alabama  
PLACE KEYWORD Alaska  
PLACE KEYWORD Arizona  
PLACE KEYWORD Arkansas  
PLACE KEYWORD California  
PLACE KEYWORD Colorado  
PLACE KEYWORD Florida  
PLACE KEYWORD Illinois  
PLACE KEYWORD Indiana  
PLACE KEYWORD Kansas  
PLACE KEYWORD Kentucky  
PLACE KEYWORD Louisiana  
PLACE KEYWORD Maryland  
PLACE KEYWORD Michigan  
PLACE KEYWORD Mississippi  
PLACE KEYWORD Missouri  
PLACE KEYWORD Montana  
PLACE KEYWORD Nebraska  
PLACE KEYWORD Nevada  
PLACE KEYWORD New Mexico  
PLACE KEYWORD New York  
PLACE KEYWORD North Dakota  
PLACE KEYWORD Ohio  
PLACE KEYWORD Oklahoma  
PLACE KEYWORD Oregon  
PLACE KEYWORD Pennsylvania  
PLACE KEYWORD South Dakota  
PLACE KEYWORD Tennessee  
PLACE KEYWORD Texas  
PLACE KEYWORD Virginia  
PLACE KEYWORD Utah  
PLACE KEYWORD Washington  
PLACE KEYWORD West Virginia  
PLACE KEYWORD Wyoming  
PLACE KEYWORD British Columbia  
PLACE KEYWORD Manitoba

USE CONSTRAINTS

None (Public Use). Users are advised to read the data set's metadata thoroughly to understand appropriate uses and data limitations.

POINT OF CONTACT

CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY

CONTACT ORGANIZATION Oak Ridge National Laboratory

CONTACT ADDRESS

ADDRESS TYPE mailing and physical address

ADDRESS One Bethel Valley Rd, MS-6017

CITY Oak Ridge  
STATE OR PROVINCE TN  
POSTAL CODE 37831

CONTACT VOICE TELEPHONE 865-241-3976  
CONTACT FACSIMILE TELEPHONE 865-241-6261

#### DATA SET CREDIT

Oak Ridge National Laboratory (ORNL), Argonne National Laboratory (ANL), Decision and Infrastructure Sciences Division, National Geospatial-Intelligence Agency (NGA) Homeland Security Infrastructure Program (HSIP) Team, MARIS

#### [Hide Identification](#) ▲

##### ATTRIBUTE ACCURACY

##### ATTRIBUTE ACCURACY REPORT

No formal attribute accuracy test was conducted. Data from the authoritative sources (as identified in other sections of this metadata) is assumed to be correct and accurate. See also "Overview Description" in the "Entities and Attributes" metadata section.

##### LOGICAL CONSISTENCY REPORT

Data were extracted from sources (identified in the SOURCE field) and other open source websites to populate the attribute fields. For string and data types, NOT AVAILABLE values denote missing data that was not present in the source data while NOT APPLICABLE values denote that the field does not apply for the specific case. For numeric data types, -999 denotes missing data that was within the expected ranges or had expected/valid values. Text attribute values were checked for spelling and usage consistency. No topology tests were conducted. All records were verified to occur within the spatial domain of the feature class/shapefile.

##### COMPLETENESS REPORT

Data is complete as of the most recent date indicated in the Time Period section. All efforts were taken to identify Oil and Natural Gas Wells through open sources. Additional facilities may exist. Primary source is derived from well data from individual states and provinces and United States Agencies. This layer is complete for the United States but further development of data missing for two Canadian provinces and Mexico is in process.

##### POSITIONAL ACCURACY

##### HORIZONTAL POSITIONAL ACCURACY

##### HORIZONTAL POSITIONAL ACCURACY REPORT

None; all efforts were made to place the geographic representation of the facility on-entity using the best available imagery from a wide variety of sources. Users should read and understand the VAL\_METHOD metadata as well as the Processing Steps.

##### QUANTITATIVE HORIZONTAL POSITIONAL ACCURACY ASSESSMENT

HORIZONTAL POSITIONAL ACCURACY VALUE horizontal

##### HORIZONTAL POSITIONAL ACCURACY EXPLANATION

The physical accuracy of each feature is qualified in the POSREL (Positional Reliability) Field. All features were given one of six values: WITHIN 40 FEET, WITHIN 166 FEET, WITHIN 1 MILE, EXCEEDS 1 MILE, NOTIONAL, or THIRD PARTY. Definitions for Positional Reliability field values can be found in the POSREL attribute information.

##### VERTICAL POSITIONAL ACCURACY

##### VERTICAL POSITIONAL ACCURACY REPORT

None; dataset contains no vertical data.

##### LINEAGE

##### SOURCE INFORMATION

##### SOURCE CITATION

##### CITATION INFORMATION

ORIGINATOR see SOURCE field

PUBLICATION DATE see SOURCEDATE field.

TITLE



see SOURCE field

GEOSPATIAL DATA PRESENTATION FORM Other  
PUBLICATION INFORMATION

PUBLICATION PLACE see SOURCE field

PUBLISHER see SOURCE field

TYPE OF SOURCE MEDIA Digital Resources

SOURCE TIME PERIOD OF CONTENT

TIME PERIOD INFORMATION

RANGE OF DATES/TIMES

BEGINNING DATE 08/30/1999

ENDING DATE 01/08/2019

SOURCE CURRENTNESS REFERENCE

Observed

PROCESS STEP

PROCESS DESCRIPTION

Reviews of public sources were performed to identify states that potentially contained active Oil and Natural Gas Wells. These sources included but were not limited to various state or province agencies, the United States Geological Survey, and the Energy Information Administration (EIA). The websites of the identified states were reviewed and data about each facility was identified and populated into the attributes table. The website used to derive the facility information for each company is identified in the attributes of the data layer. Where available both the Surface (Wellhead) coordinates and the bottom hole coordinates were provided. The display coordinates are Surface coordinates unless they are not available. Then Bottom Hole coordinates are used when Surface coordinates were not available. The COORDTYPE field indicates when the display coordinates are Surface or Bottom Hole.

#### [Hide Data Quality ▲](#)

HORIZONTAL COORDINATE SYSTEM DEFINITION

GEODETIC MODEL

HORIZONTAL DATUM NAME D WGS 1984

ELLIPSOID NAME WGS 1984

SEMI-MAJOR AXIS 6378137.0

DENOMINATOR OF FLATTENING RATIO 298.257223563

#### [Hide Spatial Reference ▲](#)

DETAILED DESCRIPTION

ENTITY TYPE

ENTITY TYPE LABEL MS Oil and Natural Gas Wells 2016

ENTITY TYPE DEFINITION

Attribute fields were populated using sources identified in the SOURCE field for the period covered in this Time Period metadata and other open source data. For string and date data types, NOT AVAILABLE values denote missing data that was not present in the source data while NOT APPLICABLE values denote that the field does not apply for the specific case. For numeric data types, -999 denotes missing data that was not present in the source data. However, the missing data may be present in other sources not yet discovered and used in the creation and/or maintenance of this dataset. These records may be populated with valid information in future update cycles.

ENTITY TYPE DEFINITION SOURCE Argonne National Laboratory

ATTRIBUTE

ATTRIBUTE LABEL FID

ATTRIBUTE DEFINITION

Internal feature number.

ATTRIBUTE DEFINITION SOURCE Esri

ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
Sequential unique whole numbers that are automatically generated.

ATTRIBUTE  
ATTRIBUTE LABEL OBJECTID  
ATTRIBUTE DEFINITION  
Internal feature number.  
ATTRIBUTE DEFINITION SOURCE Esri  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
Sequential unique whole numbers that are automatically generated.

ATTRIBUTE  
ATTRIBUTE LABEL SHAPE  
ATTRIBUTE DEFINITION  
Feature geometry.  
ATTRIBUTE DEFINITION SOURCE Esri  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
Coordinates defining the features.

ATTRIBUTE  
ATTRIBUTE LABEL ID  
ATTRIBUTE DEFINITION  
Unique identifier for each feature. ID values are unique to this dataset ONLY and may have changed from the previous versions of the dataset, and/or change in a future version of the dataset.  
ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
id

ATTRIBUTE  
ATTRIBUTE LABEL NAME  
ATTRIBUTE DEFINITION  
Feature name.  
ATTRIBUTE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
name

ATTRIBUTE  
ATTRIBUTE LABEL TYPE  
ATTRIBUTE DEFINITION  
Specific categorical breakdown of the feature.  
ATTRIBUTE DEFINITION SOURCE Originator defined  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
type

ATTRIBUTE  
ATTRIBUTE LABEL STATUS  
ATTRIBUTE DEFINITION  
Operational status of the feature.  
ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
ATTRIBUTE DOMAIN VALUES

ENUMERATED DOMAIN  
 ENUMERATED DOMAIN VALUE ACTIVE WELL  
 ENUMERATED DOMAIN VALUE DEFINITION  
 Feature is an active well.  
 ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
 Argonne National Laboratory  
 ENUMERATED DOMAIN  
 ENUMERATED DOMAIN VALUE NON-ACTIVE WELL  
 ENUMERATED DOMAIN VALUE DEFINITION  
 Feature is a non-active well.  
 ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
 Argonne National Laboratory  
 ENUMERATED DOMAIN  
 ENUMERATED DOMAIN VALUE PRODUCING, NON-ACTIVE WELL  
 ENUMERATED DOMAIN VALUE DEFINITION  
 Feature is a producing, non-active well.  
 ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
 Argonne National Laboratory  
 ENUMERATED DOMAIN  
 ENUMERATED DOMAIN VALUE UNKNOWN WELL  
 ENUMERATED DOMAIN VALUE DEFINITION  
 Status of the feature is unknown.  
 ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
 Argonne National Laboratory  
 ENUMERATED DOMAIN  
 ENUMERATED DOMAIN VALUE WELL DEVELOPMENT  
 ENUMERATED DOMAIN VALUE DEFINITION  
 Feature is for well development.  
 ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
 Argonne National Laboratory  
 ENUMERATED DOMAIN  
 ENUMERATED DOMAIN VALUE STORAGE WELL/MAINTENTANCE WELL/OBSERVATION WELL  
 ENUMERATED DOMAIN VALUE DEFINITION  
 Feature is a storage well, maintenance well, or observation well.  
 ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
 Argonne National Laboratory  
 ENUMERATED DOMAIN  
 ENUMERATED DOMAIN VALUE PRODUCING WELL  
 ENUMERATED DOMAIN VALUE DEFINITION  
 Feature is a producing well.  
 ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
 Argonne National Laboratory

ATTRIBUTE  
 ATTRIBUTE LABEL COUNTY  
 ATTRIBUTE DEFINITION  
 United States and its Territories county name and legal/statistical area description (county, borough, parish, municipality, census area), Canada (province, territory), and Mexico (municipality).  
 ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
 ATTRIBUTE DOMAIN VALUES  
 CODESET DOMAIN  
 CODESET NAME United States County, Canadian Province, Mexican Municipality  
 CODESET SOURCE When the county name is available from a specific source, the contents are replicated from the SOURCE. Otherwise, ANL assigns the value based on open source searches.

ATTRIBUTE

ATTRIBUTE LABEL COUNTYFIPS

ATTRIBUTE DEFINITION

US County Federal Information Processing Standards (FIPS) Code (5 digit), Canada Standard Geographical Classification (SGC) Code (7 digit), and Mexico National Institute of Statistics and Geography (INEGI) Code (5 digit).

ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory

ATTRIBUTE DOMAIN VALUES

CODESET DOMAIN

CODESET NAME 2010 FIPS Codes for Counties and County Equivalent Entities, Standard Geographical Classification 2011, and INEGI National Geostatistical Framework

CODESET SOURCE FIPS/Census

(<http://www.census.gov/geo/reference/codes/cou.html>), Statistics Canada

(<http://www.statcan.gc.ca/pub/92-195-x/2011001/other-autre/sgc-cgt/sgc-cgt-eng.htm>), and Marco Geoestadístico Nacional

(<http://www.inegi.org.mx/geo/contenidos/geoestadistica/default.aspx>).

ATTRIBUTE

ATTRIBUTE LABEL LATITUDE

ATTRIBUTE DEFINITION

The angular distance north or south from the equator on the earth's surface.

ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory

ATTRIBUTE DOMAIN VALUES

RANGE DOMAIN

RANGE DOMAIN MINIMUM 25.880895

RANGE DOMAIN MAXIMUM 71.069597

ATTRIBUTE UNITS OF MEASURE Decimal Degrees

ATTRIBUTE

ATTRIBUTE LABEL LONGITUDE

ATTRIBUTE DEFINITION

The angular distance east or west from the prime meridian on the earth's surface.

ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory

ATTRIBUTE DOMAIN VALUES

RANGE DOMAIN

RANGE DOMAIN MINIMUM -74.457660

RANGE DOMAIN MAXIMUM -160.023750

ATTRIBUTE UNITS OF MEASURE Decimal Degrees

ATTRIBUTE

ATTRIBUTE LABEL NAICS\_CODE

ATTRIBUTE DEFINITION

The North American Industry Classification System (NAICS) code is the standard used by Federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the US business economy.

ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory

ATTRIBUTE DOMAIN VALUES

CODESET DOMAIN

CODESET NAME North American Industry Classification System, 2017

CODESET SOURCE US Census (<http://www.census.gov/eos/www/naics/>)

ATTRIBUTE

ATTRIBUTE LABEL NAICS\_DESC

ATTRIBUTE DEFINITION

North American Industry Classification System (NAICS) definition is the standard used by Federal statistical agencies in classifying business establishments for the purpose of

collecting, analyzing, and publishing statistical data related to the US business economy.

ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
ATTRIBUTE DOMAIN VALUES  
CODESET DOMAIN  
CODESET NAME North American Industry Classification System  
CODESET SOURCE Office of Management and Budget  
(<http://www.census.gov/eos/www/naics/>)

ATTRIBUTE

ATTRIBUTE LABEL SOURCE

ATTRIBUTE DEFINITION

Original source used to identify geospatial location and/or attribution for the feature.

ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN

source

ATTRIBUTE

ATTRIBUTE LABEL SOURCEDATE

ATTRIBUTE DEFINITION

Date of source, or, if not available, the date ANL accessed the source.

ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
ATTRIBUTE DOMAIN VALUES

RANGE DOMAIN

RANGE DOMAIN MINIMUM 08/30/1999

RANGE DOMAIN MAXIMUM 01/08/2019

ATTRIBUTE UNITS OF MEASURE Date

ATTRIBUTE

ATTRIBUTE LABEL VAL\_METHOD

ATTRIBUTE DEFINITION

Methodology used to validate geospatial location and/or attribution for the feature.

ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
ATTRIBUTE DOMAIN VALUES

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE GEOCODE

ENUMERATED DOMAIN VALUE DEFINITION

Street address geocoding used to determine the location.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

Argonne National Laboratory

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE IMAGERY

ENUMERATED DOMAIN VALUE DEFINITION

The best available imagery used to determine the location.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

Argonne National Laboratory

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE IMAGERY/OTHER

ENUMERATED DOMAIN VALUE DEFINITION

Imagery and supplemental open source information used to determine the location.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

Argonne National Laboratory

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE OTHER

ENUMERATED DOMAIN VALUE DEFINITION

Aggregated open source information used to determine/verify attribution and locational information for the feature.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
Argonne National Laboratory  
ENUMERATED DOMAIN  
ENUMERATED DOMAIN VALUE UNVERIFIED  
ENUMERATED DOMAIN VALUE DEFINITION  
Feature could not be located or the feature has not yet been validated.  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
Argonne National Laboratory

ATTRIBUTE  
ATTRIBUTE LABEL VAL\_DATE  
ATTRIBUTE DEFINITION  
Date when geospatial location and/or attribution were last validated for the feature.  
ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
ATTRIBUTE DOMAIN VALUES  
RANGE DOMAIN  
RANGE DOMAIN MINIMUM 11/12/2014  
RANGE DOMAIN MAXIMUM 06/17/2019  
ATTRIBUTE UNITS OF MEASURE Date

ATTRIBUTE  
ATTRIBUTE LABEL WEBSITE  
ATTRIBUTE DEFINITION  
The feature specific website.  
ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
URL

ATTRIBUTE  
ATTRIBUTE LABEL WELLIDNO  
ATTRIBUTE DEFINITION  
Well ID number assigned to the feature by the appropriate State or Province agency.  
ATTRIBUTE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
ID number

ATTRIBUTE  
ATTRIBUTE LABEL API  
ATTRIBUTE DEFINITION  
American Petroleum Institute (API) well number which is a "unique, permanent, numeric identifier" assigned to each feature drilled for oil and gas in the United States.  
ATTRIBUTE DEFINITION SOURCE American Petroleum Institute  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
well number

ATTRIBUTE  
ATTRIBUTE LABEL PERMITNO  
ATTRIBUTE DEFINITION  
The feature's permit number, if different from well ID number.  
ATTRIBUTE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
permit number

ATTRIBUTE

ATTRIBUTE LABEL OPERATOR  
ATTRIBUTE DEFINITION

Feature operator name.

ATTRIBUTE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

ATTRIBUTE DOMAIN VALUES

UNREPRESENTABLE DOMAIN  
name

ATTRIBUTE

ATTRIBUTE LABEL OPERATORID  
ATTRIBUTE DEFINITION

Operator ID number for the feature, if available from the appropriate State agency.

ATTRIBUTE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

ATTRIBUTE DOMAIN VALUES

UNREPRESENTABLE DOMAIN  
operator id

ATTRIBUTE

ATTRIBUTE LABEL PRODTYPE  
ATTRIBUTE DEFINITION

Indicates the primary commodity of the feature. For example whether a feature is "DRY GAS" or "OIL" or "GAS-OIL", etc.

ATTRIBUTE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.

ATTRIBUTE DOMAIN VALUES

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE GAS AND OIL

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a gas and oil well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE OIL INJECTION

ENUMERATED DOMAIN VALUE DEFINITION

The feature is an oil injection well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE OIL

ENUMERATED DOMAIN VALUE DEFINITION

The feature is an oil well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE GAS CONDENSATE

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a gas condensate well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE COAL BED METHANE GAS

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a coal bed methane gas well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE GAS INJECTION

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a gas injection well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE UNKNOWN WELL

ENUMERATED DOMAIN VALUE DEFINITION

The primary commodity of the feature is unknown.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE GAS OR OIL

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a gas or oil well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE NATURAL GAS LIQUIDS

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a natural gas liquids well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE SALT WATER INJECTION

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a salt injection well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE GAS

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a gas well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE GAS STORAGE PRODUCING

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a gas storage producing well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE GAS STORAGE

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a gas storage well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE INJECTION GAS OR OIL Gas

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a gas or oil injection well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE SHALE GAS

ENUMERATED DOMAIN VALUE DEFINITION

The feature is shale gas well.



ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE DRY GAS

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a dry gas well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE LIQUEFIED PETROLEUM GAS

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a liquid petroleum gas well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE GAS AND OIL STORAGE

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a gas and oil storage well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE GAS AND OIL STORAGE

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a gas and oil storage well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE GAS STORAGE (CAVERN)

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a gas storage cavern well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE GAS STORAGE (RESERVOIR)

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a gas storage reservoir well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE OIL STORAGE

ENUMERATED DOMAIN VALUE DEFINITION

The feature is an oil storage well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE DRY GAS

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a dry gas well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ENUMERATED DOMAIN

ENUMERATED DOMAIN VALUE GAS STORAGE PRODUCING

ENUMERATED DOMAIN VALUE DEFINITION

The feature is a gas storage producing well.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE

The responsible organization as identified in the SOURCE field.

ATTRIBUTE

ATTRIBUTE LABEL SURF\_LAT

ATTRIBUTE DEFINITION  
Surface Well hole latitude coordinate of the feature (decimal degrees).  
ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
latitude

ATTRIBUTE

ATTRIBUTE LABEL SURF\_LONG  
ATTRIBUTE DEFINITION  
Surface Well hole longitude coordinate of the feature (decimal degrees).  
ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
longitude

ATTRIBUTE

ATTRIBUTE LABEL BOT\_LAT  
ATTRIBUTE DEFINITION  
Bottom Well hole (extraction point) latitude coordinate of the feature (decimal degrees).  
ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
latitude

ATTRIBUTE

ATTRIBUTE LABEL BOT\_LONG  
ATTRIBUTE DEFINITION  
Bottom Well hole (extraction point) longitude coordinate of the feature (decimal degrees).  
ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
longitude

ATTRIBUTE

ATTRIBUTE LABEL POSREL  
ATTRIBUTE DEFINITION  
The level of accuracy and confidence in the feature location.  
ATTRIBUTE DEFINITION SOURCE Argonne National Laboratory  
ATTRIBUTE DOMAIN VALUES  
ENUMERATED DOMAIN  
ENUMERATED DOMAIN VALUE WITHIN 40 FEET  
ENUMERATED DOMAIN VALUE DEFINITION  
Coordinates are within 40 feet of the site's actual location.  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
Argonne National Laboratory  
ENUMERATED DOMAIN  
ENUMERATED DOMAIN VALUE WITHIN 1 MILE  
ENUMERATED DOMAIN VALUE DEFINITION  
Coordinates are within 1 mile of the site's actual location.  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
Argonne National Laboratory  
ENUMERATED DOMAIN  
ENUMERATED DOMAIN VALUE EXCEEDS 1 MILE  
ENUMERATED DOMAIN VALUE DEFINITION  
Coordinates are farther than 1 mile from the site's actual location.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
Argonne National Laboratory  
ENUMERATED DOMAIN  
ENUMERATED DOMAIN VALUE WITHIN 166 FEET  
ENUMERATED DOMAIN VALUE DEFINITION  
Coordinates are within 166 feet of the site's actual location.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
Argonne National Laboratory  
ENUMERATED DOMAIN  
ENUMERATED DOMAIN VALUE NOTIONAL  
ENUMERATED DOMAIN VALUE DEFINITION  
The exact position is either unknown or determination is cost prohibitive.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
Argonne National Laboratory  
ENUMERATED DOMAIN  
ENUMERATED DOMAIN VALUE THIRD PARTY  
ENUMERATED DOMAIN VALUE DEFINITION  
Geospatial coordinates provided by a third party source. Revalidating the provided geolocations would not be cost effective.  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE  
Argonne National Laboratory

ATTRIBUTE

ATTRIBUTE LABEL FIELD  
ATTRIBUTE DEFINITION  
Name of Oil-Gas Field in which the feature is located.  
ATTRIBUTE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
field name

ATTRIBUTE

ATTRIBUTE LABEL COMPDATE  
ATTRIBUTE DEFINITION  
Completion date of the feature. If a COMPDATE was not provided in the original source data then the COMPDATE value will be shown as NULL.  
ATTRIBUTE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
date

ATTRIBUTE

ATTRIBUTE LABEL TOTDEPTH  
ATTRIBUTE DEFINITION  
Total depth (in feet) of the feature.  
ATTRIBUTE DEFINITION SOURCE The responsible organization as identified in the SOURCE field.  
ATTRIBUTE DOMAIN VALUES  
RANGE DOMAIN  
RANGE DOMAIN MINIMUM 0  
RANGE DOMAIN MAXIMUM 10000

OVERVIEW DESCRIPTION  
ENTITY AND ATTRIBUTE OVERVIEW  
The entity and attribute information provided here describes the tabular data associated with the data set. Please review the detailed descriptions that are provided

(the individual attribute descriptions) for information on the values that appear as fields/table entries of the data set. Please see the "Processing Steps" section for further methodology. For string and date data types, NOT AVAILABLE values denote missing data that was not present in the source data while NOT APPLICABLE values denote that the field does not apply for the specific case. For numeric data types, -999 denotes missing data that was not present in the source data. However, the missing data may be present in other sources not yet discovered and used in the creation and/or maintenance of this dataset. These records may be populated with valid information in future update cycles.

ENTITY AND ATTRIBUTE DETAIL CITATION  
Argonne National Laboratory

[Hide Entities and Attributes ▲](#)

DISTRIBUTOR  
CONTACT INFORMATION  
CONTACT ORGANIZATION PRIMARY  
CONTACT ORGANIZATION HIFLD Subcommittee  
CONTACT ELECTRONIC MAIL ADDRESS [hifld@hq.dhs.gov](mailto:hifld@hq.dhs.gov)

DISTRIBUTION LIABILITY  
Distributor assumes no liability for misuse of the data.

STANDARD ORDER PROCESS  
DIGITAL FORM  
DIGITAL TRANSFER INFORMATION  
FORMAT NAME Vector Digital Data Set (Point)

FEES None. No fees are applicable for obtaining the data set.

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METADATA DATE 2019-06-21  
METADATA CONTACT  
CONTACT INFORMATION  
CONTACT ORGANIZATION PRIMARY  
CONTACT ORGANIZATION Oak Ridge National Laboratory  
CONTACT ADDRESS  
ADDRESS TYPE Mailing and Physical address  
ADDRESS One Bethel Valley Rd, MS-6017  
CITY Oak Ridge  
STATE OR PROVINCE TN  
POSTAL CODE 37831

CONTACT VOICE TELEPHONE 865-241-3976  
CONTACT FACSIMILE TELEPHONE 865-241-6261

METADATA STANDARD NAME FGDC Content Standards for Digital Geospatial Metadata  
METADATA STANDARD VERSION Vector Digital Data Set (Point)  
METADATA TIME CONVENTION local time

[Hide Metadata Reference ▲](#)