

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

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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

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.

Hide Distribution Information ▲

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 ▲