

File Name with Well Counts:

- FracTrackerNationalWells_2021_Part1.csv
 - AK (n=3,086); AL (n=7,374); AR (n=16,512); AZ (n=1,050); CA (n=64,390); CO (n=50,501); FL (n=123); ID (n=12); IL (n=57,620); IN (n=10,134); KS (n=153,502); KY (n=65,769); LA (n=53,017); MI (n=18,652); MO (n=732); MS (n=5178); MT (n=14,687); ND (n=25,893); NE (n=2,265); NM (n=62,428); NY (n=16,416)
- FracTrackerNationalWells_2021_Part2.csv
 - OH (n=101,117); OK (n=51,288); OR (n=60); PA (n=109,379); SD (n=453); TN (n=16,249); UT (n=16,462); VA (n=8,264); WA (n=719); WV (n=47,150); WY (64,762)
- FracTrackerNationalWells_2021_Part3_TX.csv
 - TX (n=512,530)

Notes:

Due to the large number of oil and gas wells in the United States, this national dataset has been broken up into three different comma separated values (.csv) text files. All data were obtained between March 1, 2021 and September 30, 2021.

As oil and gas wells are regulated by the states, available data as well as data quality vary tremendously. For those reasons, as well as ease of use and file size, this dataset limits the available attributes to the following:

- State - two letter postal code
- API Number - Available in most states, but in a variety of formats
- Name – Well name and number. In some cases, this was combined from two fields, in others, it was already combined. In other cases, this field is not available.
- Operator – Name of company that operates the well
- SpudDt – The spud date is generally considered to be the date that the rig which will drill down to the target geological stratum first touches the ground. This concept is often simplified to say the date that drilling operations begin.
- Status – Current status of the well as of the time the data was downloaded. Some states combine this with well type, while others do not provide this information.
- Type – Type of well (production, enhanced oil recovery, disposal, etc.) Some states combine this with the well status, while others do not make it available.
- Lat – Latitude of well in decimal degrees. Almost all states make this available, but a few have been converted from other formats, such as Universal Transverse Mercator (UTM).
- Long – Longitude of well in decimal degrees. Almost all states make this available, but a few have been converted from other formats, such as Universal Transverse Mercator (UTM).

Efforts were made to include only currently active wells, along with those that had been recently proposed but are not active yet. As the data and the legal code that they are based off of varies significantly from state to state, there is a certain level of interpretation in this process which could deviate from realities in the field in some cases. Additionally, there were thousands of wells, especially in OK and WV, that were given coordinates that render outside of the state boundaries, and these were excluded from this compilation. It is entirely likely that there are additional wells with bad latitude and longitude coordinates where this state-level verification was not sufficient to identify erroneous results published by the various states. Therefore, it is recommended to verify the location or any other attribute of any specific well with the regulatory agency of the state in question.

Sources:

This data was compiled by FracTracker Alliance based on data reported by the various state-level regulatory bodies. In some cases, these agencies have more than one data source. Because of this, there are sometimes two links for a single state. Some of these additional links may represent specific well selections, such as orphaned or abandoned well lists, which may or may not be what the user is looking for. Users interested in the most recent data for any state are encouraged to follow these links and search these agencies' websites for the most recent version.

Alaska:

Regulator: Department of Commerce, Community, and Economic Development / Alaska Oil and Gas Conservation Commission

Download page: <https://www.commerce.alaska.gov/web/aogcc/Data.aspx>

Download date: 4/15/21

Direct link:

Definitions: <https://dog.dnr.alaska.gov/About/Definitions>

Alabama:

Regulator: Geological Survey of Alabama / Oil and Gas Board

Download page: <https://www.gsa.state.al.us/ogb/gisdata>

Download date:

Direct link: <https://www.gsa.state.al.us/img/ogb/gis/well.zip>

Definitions: <http://www.alabamaadministrativecode.state.al.us/docs/oil/1OIL4.htm>

Arkansas:

Regulator: Arkansas Dept. of Energy and Environment - Oil and Gas Commission

Download page: <https://gis.arkansas.gov/>

Download date: 4/21/2021

Direct link: <https://gis.arkansas.gov/product/arkansas-oil-and-gas-wells/>

Definitions: <http://www.aogc.state.ar.us/welldata/wells/default.aspx>

Arizona:

Regulator: Arizona Oil and Gas Conservation Commission

Download page: <http://azogcc.az.gov/>

Download date: 4/15/2021

Direct link: Requested via email

Definitions:

California:

Regulator: CalGEM

Download page: <https://wellstar-public.conservation.ca.gov/General/PublicDownloads/Index>

Download date: 4/21/2021

Direct link: <https://calgem-pid.conservation.ca.gov/pid/2020CaliforniaOilAndGasWells.csv>

Definitions: <https://www.conservation.ca.gov/calgem/maps/Documents/GIS-metadata-ReadMe.pdf>

Colorado:

Regulator: Department of Natural Resources - Colorado Oil and Gas Conservation Commission

Download page: <https://cogcc.state.co.us/data2.html#/downloads>

Download date: 4/21/2021

Direct link: https://cogcc.state.co.us/documents/data/downloads/gis/WELLS_SHP.ZIP

Definitions:

Florida:

Regulator: Florida Department of Environmental Protection

Download page: <https://floridadep.gov/water/oil-gas/content/oil-and-gas-permit-database>

Download date: 4/22/2021

Direct link: http://publicfiles.dep.state.fl.us/dworm/oil_gas/data/O_G_WELLS_WEBSITE.xlsx

Definitions:

Idaho:

Regulator: Idaho Oil & Gas Conservation Commission

Download page: <https://ogcc.idaho.gov/data-explorer/>

Download date: 3/1/2021

Direct link:

Definitions:

Illinois:

Regulator: Illinois DNR - Oil & Gas Resource Management

Download page: <https://clearinghouse.isgs.illinois.edu/data/geology/location-points-isgs-wells-and-borings-database>

Download date: 4/22/2021

Direct

link: https://clearinghouse.isgs.illinois.edu/sites/clearinghouse.isgs/files/Clearinghouse/data/ISGS/Geology/zips/IL_WELLS_Borings_Location_Pt.zip

Definitions: https://isgs-oas.isgs.illinois.edu/geoprodDAD/image_get.xls?p_id=29 (seems to have SSL certificate issue)

Indiana:

Regulator: Indiana Department of Natural Resources

Download page: See below

Download date: 4/19/2021

Direct link:

Definitions:

Notes: Indiana's O&G data is supposedly freely available, but difficult to obtain. Notably, Indiana does not use well API numbers, favoring their own classification system. Well data was found at

https://gis.in.gov/arcgis/rest/services/DNR/OilGasWells_DNR_DOG_IN/MapServer Location data converted from Universal Transverse Mercator Zone 16 North to decimal degree.

Kansas:

Regulator: Kansas Corporation Commission

Download page: <http://www.kgs.ku.edu/PRS/petroDB.html>

Download date: 4/22/2021

Direct link: http://www.kgs.ku.edu/PRS/Ora_Archive/OILGAS_WELLS_GEO27.zip

Definitions: <http://www.kgs.ku.edu/Magellan/Elog/status.html>

Kentucky:

Regulator: Kentucky Division of Oil and Gas; Data through Kentucky Geologic Survey

Download page: <https://www.uky.edu/KGS/emsweb/data/kyogshape.html>

Download date: 4/23/2021

Direct link: https://kgs.uky.edu/ogdata/kyog_dd.zip

Definitions: https://www.uky.edu/KGS/emsweb/data/kyog_dd.htm

Louisiana:

Regulator: Louisiana Department of Natural Resources

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

Download date: 4/26/2021

Direct link:

Definitions: FracTracker Louisiana map has status code descriptions in the Details section. <https://maps.fractracker.org/latest/?webmap=3718fd9ae3ef491cb66456407a8a127a>

Maryland:

Regulator: Maryland Department of the Environment -

Download page:

Download date:

Direct link:

Definitions:

Notes: Maryland has very few wells. Does not publish O&G data but I have requested updated data. Per Molly Michaelson, Program Manager of the state's mining program, "It is not online and I don't think we can get you a whole lot out of database. No API number or coordinates."

Michigan:

Regulator: Michigan Department of Environment, Great Lakes, and Energy

Download page: <https://gis-michigan.opendata.arcgis.com/datasets/egle::oil-gas-test-well-surface-hole-locations?geometry=-175.875%2C-38.921%2C42.270%2C18.859>

Download date: 4/27/2021; updated by site 2/21/2021

Direct link:

Definitions:

Mississippi:

Regulator: Mississippi State Oil and Gas Board

Download page: <https://www.ogb.state.ms.us/welldata.php>

Download date: 4/27/2021

Direct link:

Definitions: On Details section of FracTracker map
<https://maps.fractracker.org/latest/?appid=a72d458485ae4880bc3f26ff98854df8>

Montana:

Regulator: Montana Board of Oil and Gas Conservation

Download page: <http://dnrc.mt.gov/divisions/board-of-oil-and-gas-conservation>

Download date: 4/29/2021

Direct link: <http://www.bogc.dnrc.mt.gov/gisdata/WellSurface/WellSurface.txt>

Definitions:

Notes: At first, Montana's data appears to be years out of date, as you have to pass through a folder with the date 5/22/2015. However, on the link above, the data is up to date.

North Dakota:

Regulator: North Dakota Department of Natural Resources

Download page: <https://www.dmr.nd.gov/OaGIMS/viewer.htm>

Download date: 4/26/2021 (checked on 5/4 but this was still most recent upload)

Direct link: <https://www.dmr.nd.gov/output/ShapeFiles/Wells.zip>

Definitions: Codes are on FracTracker map page
<https://maps.fractracker.org/latest/?appid=de52b05f484a4c4fac08e94cc4d7048c&webmap=b27a81c0649c43438e834664613ff8f1>

Nebraska:

Regulator: Nebraska Oil and Gas Conservation Commission

Download page: <http://www.nogcc.ne.gov/NOGCCPublications.aspx>

Download date: 5/4/2021

Direct link: http://www.nogcc.ne.gov/Publications/NE_WELLS.zip

Definitions: http://www.nogcc.ne.gov/Publications/NebraskaWellStatus_TypeCodes.pdf

New Mexico:

Regulator: New Mexico Oil Conservation Division

Download page: <ftp://164.64.106.6/Public/OCD/OCD%20GIS%20Data/>

Download date: 3/25/2021

Direct link: <ftp://164.64.106.6/Public/OCD/OCD%20GIS%20Data/>

Definitions:

Nevada:

Regulator: Nevada Bureau of Mines and Geology

Download page: <https://data-nbmg.opendata.arcgis.com/datasets/oil-and-gas-wells/data?geometry=-137.212%2C35.564%2C-95.399%2C41.571&orderBy=spuiddatetime&orderByAsc=false>

Download date: 3/25/2021

Direct link:

Definitions:

New York:

Regulator: New York Division of Mineral Resources

Download page: <https://www.dec.ny.gov/energy/1603.html>

Download date: 4/29/2021

Direct link: <ftp://ftp.dec.state.ny.us/dmn/zip/wellDOS.zip>

Definitions: Included in metadata for ftp download

Ohio:

Regulator: Ohio Department of Natural Resources

Download page: <https://gis.ohiodnr.gov/MapView/?config=oilgaswells> AND https://apps.ohiodnr.gov/oilgas/rbmdsreports/Reports_Completions.aspx

Download date: 5/7/2021

Direct link: <https://gis.ohiodnr.gov/MapView/download.ashx?18cc41d7-b93d-4603-bf63-53fdf3eda507>

Definitions:

Oklahoma:

Regulator: Oklahoma Corporation Commission

Download page: <https://oklahoma.gov/occ/divisions/oil-gas/oil-gas-data.html>

Download date: 5/9/2021

Direct link: <https://oklahoma.gov/occ/divisions/oil-gas/oil-gas-data.html>

Definitions:

Oregon:

Regulator: Oregon Department of Geology and Mineral Industries

Download page: <https://www.oregongeology.org/mlrr/oilgas-report.htm>

Download date: 4/26/2021

Direct link: https://www.oregongeology.org/mlrr/spreadsheets/OG_Permits_01-29-2021.xls

Definitions:

Pennsylvania:

Regulator: Pennsylvania Department of Environmental Protection

Download page: <https://www.dep.pa.gov/DataandTools/Reports/Oil%20and%20Gas%20reports/Pages/default.aspx>

Download date: 4/26/2021

Direct link: <https://www.pasda.psu.edu/uci/DataSummary.aspx?dataset=1088>

Definitions:

South Dakota:

Regulator: South Dakota Department of Agriculture and Natural Resources

Download page: http://www.sdgs.usd.edu/sdoil/oilgas_databases.aspx

Download date: 4/28/2021

Direct link: <http://www.sdgs.usd.edu/pubs/og/SDOILexport.zip>

Definitions:

Tennessee:

Regulator: Tennessee Department of Environmental Conservation

Download page: https://environment-online.state.tn.us:8090/pls/enf_reports/f?p=9034:34300:0::NO or <https://tdeconline.tn.gov/oilgaswells/> (click arrow at bottom then can download the wells as .csv)

Download date: 5/9/2021

Direct link:

Definitions:

Texas:

Regulator: Texas Railroad Commission

Download page: <https://mft.rrc.texas.gov/link/4e9023eb-e4ee-45b8-81b7-aec1494c1e8e>

Download date: 5/8/2021

Direct link:

Definitions: <https://www.rrc.state.tx.us/media/kmld3uzj/digital-map-information-user-guide-2021.pdf> SYMNUM codes pages 17-19.

Notes: These are released by county, and Texas has a lot of counties. Each county folder has tophole locations, bottomhole locations, and most of them also have lines for deviated or horizontal wells. We just used tophole locations and merged the counties together.

Utah:

Regulator: Utah Department of Natural Resources

Download page: <https://oilgas.ogm.utah.gov/oilgasweb/>

Download date:

Direct link: <https://oilgas.ogm.utah.gov/oilgasweb/data-center/dc-main.xhtml>

Definitions: <https://oilgas.ogm.utah.gov/oilgasweb/live-data-search/lds-ref/ref-codes-lu.xhtml>

Virginia:

Regulator: Virginia Department of Mines, Minerals, and Energy

Download page: <https://dmme.virginia.gov/dgo inquiry/frmMain.aspx?ctl=7>

Download date: 5/7/2021

Direct link:

Definitions:

Notes: Locations are in North American Datum 1983 state plane, feet, Virginia South Zone (<https://www.dmme.virginia.gov/dgo inquiry/>) which I converted to lat/long.

West Virginia:

Regulator: West Virginia Department of Environmental Protection

Download page: <https://dep.wv.gov/oil-and-gas/Pages/default.aspx>

Download date: 5/7/2021

Direct link: <https://tagis.dep.wv.gov/oog/>

Definitions:

Notes: Shapefile appears to have been entered in Universal Transverse Mercator Zone 17 North, but lat/long values in decimal degree were added. 1,156 wells apparently all have the same coordinates in Virginia, which were excluded.

Wyoming:

Regulator: Wyoming Oil and Gas Conservation Commission

Download page: <http://pipeline.wyo.gov/urecordsMenu.cfm>

Download date:

Direct link:

Definitions: Status codes on Details section of FracTracker Map

<https://maps.fractracker.org/latest/?appid=2571cd357d5a47f59e2f2929ad7fe102>