

Commonwealth of Pennsylvania



Office of Oil and Gas Management

Division of Compliance and Data Administration

**Oil and Gas Reports
Data Dictionary**

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Version 1.4

Disclaimer Information

While the Oil and Gas Program requires accurate data reported by Operators, the Department of Environmental Protection makes no claims, promises or guarantees regarding the accuracy, completeness or timeliness of the data. DEP will make every attempt to correct any errors discovered but expressly disclaims any liability for errors or omissions related to the data contained within these reports.

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1. Summary

The Department of Environmental Protection is committed to providing information in an accessible and user-friendly format and more effectively, the department has created several interactive reports, non-interactive reports and applications that allow the user to select specific criteria for the desired information. In addition, the report data can easily be downloaded for further analysis. All data presented on all the reports is up to date as of close of business yesterday.

For questions or problems with any of these reports, contact the Office of Oil and Gas Management, Bureau of Compliance and Data Administration at 717-772-2199 or by email at RA-EP-BOGMOGRE@pa.gov.

2. Interactive MAP

This interactive website shows a wide variety of Oil and Gas information. It includes locational data, Oil and Gas permitting documents and compliance information regarding Oil and Gas wells. The user can request this data set to display the information based on the permit number, combinations of operator that submitted the report, the county in which the well is located or the Municipality (also known as a Minor Civil Division or MCD) in which the well is located.

<i>Report</i>	<i>Description</i>
Oil and Gas Mapping Application	The Oil and Gas Mapping Application provides the user the ability to use map functionality to locate a specific address, county, latitude and longitude, municipality or zip code. Additionally, allows the user to link to the PA DEP Oil & Gas Reporting Website to review production and waste reporting as provided by the operators. Please note that only wells which have locational information and are located within the boundaries of Pennsylvania will be available.
Oil and Gas Mapping Application tutorial (YouTube)	This YouTube video provides brief explanation on the use of Oil and Gas Mapping Application.

3. Interactive Applications

This interactive application allows the public to view electronic submissions the department receives from Oil and Gas operators. Users are also able to export the files associated to the submission based on their search criteria as long as the total download does not exceed 300 MB.

<i>Report</i>	<i>Description</i>
Oil and Gas Electronic Submissions	The application provides users with access to the electronic submissions that Oil and Gas operators submit to DEP.

4. Interactive Reports

Following is a list of Oil and Gas Reports that are available for the public’s use. A brief description is also included. The report name includes a hyper-link to the actual interactive report. An interactive report requires report parameters to be selected prior to the report being generated.

<i>Report</i>	<i>Description</i>
Permits Issued Detail Report	The Oil and Gas Permits Issued Detail Report provides a listing of all Oil and Gas Drill to Operate type permits that have been issued.
Monthly – Permits Issued by County and Well Type Report	The Monthly Permits Issued by County and Well Type Report provides monthly authorization type totals per county for all Oil and Gas Drill to Operate type permits that have been issued.
Year to Date – Permits Issued by County and Well Type Report	The Year to Date Permits Issued by County and Well Type Report provides year-to-date authorization type totals per county for all Oil and Gas Drill to Operate type permits that have been issued.
Oil and Gas Operator Well Inventory	The Oil and Gas Well Inventory Report provides a listing of all Oil and Gas wells.
Oil and Gas Compliance Report	The Oil and Gas Compliance Report provides a listing of all Inspections, Violations and Enforcements that occurred.
Oil and Gas Inspection Reports Viewer	The Oil and Gas Inspection Reports Viewer allows user to view Inspection reports as uploaded into DEP’s database by the inspectors. These documents that will be displayed must be upload into DEP’s database. Inspections that meet the search parameters and have no documents uploaded will still be displayed or the report, but no documents will be available to be displayed.
SPUD Data Report	The SPUD Data Report provides a listing of all Oil and Gas Drilling to Operate type permits where the SPUD Date has been reported to DEP by the Oil and Gas Operators.
Wells Drilled by County	The Wells Drilled by County Report provides a summary report of all Oil and Gas Drilling to

<i>Report</i>	<i>Description</i>
	Operate type permits where the SPUD Date has been reported to DEP by the Oil and Gas Operators summarized by County.
Wells Drilled by Operator	The Wells Drilled by Operator Report provides a summary report of all Oil and Gas Drilling to Operate type permits where the SPUD Date has been reported to DEP by the Oil and Gas Operators summarized by Operator name.
Oil and Gas Production and Waste Reports	The Oil and Gas Production and waste Reports provides a listing of Gas, Condensate & Oil production listing of waste produced that has been reported to DEP by the Oil and Gas Operators.
Oil and Gas Well Production/Waste Report Status	The Oil and Gas Well Production /Waste Report Status report provide a summary listing of all the operators that have submitted or not submitted a production/waste report for selected reporting period. The report summarizes the wells that production/waste was reported and the wells that no production was reported for.
Oil and Gas Well Production Status-Submitted Wells Note: This report may only be view by running the Oil and Gas Production Status Report.	The Oil and Gas Well Production Status-Submitted Wells report provide a detail listing of all the wells that the operator submitted production for. To view the production, see the Oil and Gas Production and Waste Report.
Oil and Gas Well Production Status-not Submitted Wells Note: This report may only be view by running the Oil and Gas Production Status Report.	The Oil and Gas Well Production Status-Not Submitted Wells report provide a detail listing of all the wells that the operator did not submitted production for.
Mechanical Integrity Assessments Report	The Department of Environmental Protection’s (DEP) Mechanical Integrity Assessment Program is a quarterly monitoring program authorized under 25 Pa. Code Chapter 78, section 78.88. The regulation requires that oil and gas operators inspect all operating oil, gas, combination (oil and gas), and coalbed methane wells on a quarterly basis for basic well integrity metrics. Wells that meet the definition

<i>Report</i>	<i>Description</i>
	<p>of “abandoned” in accordance with Act 13 must also be inspected if they have not yet been plugged. The only exception is if well integrity is addressed through specific provisions under a consent order and agreement. A summary report detailing the results of these inspections must be submitted to DEP annually by February 15 in the year subsequent to the inspections and a recordkeeping requirement mandates that inspection records be retained by the operator for five (5) years.</p> <p>Certain wells are not covered by 25 Pa. Code Chapter 78, section 78.88. These include wells approved for inactive status (completely or partially drilled wells that are not currently in production, but have “future utility”), storage field wells, and wells regulated under the U.S. Environmental Protection Agency’s (EPA) Underground Injection Control (UIC) Program. Well integrity at these sites is addressed through other laws and regulations.</p> <p>Pennsylvania is currently the only state requiring quarterly mechanical integrity inspections of all operating wells. Through introduction of such a requirement, DEP has taken steps to ensure that oil and gas wells are operated in a manner that is protective of human health and the environment within the Commonwealth. Further, data collected under the provisions of the Mechanical Integrity Assessment Program provide a useful reference for both office and field personnel by establishing a baseline operating history for all monitored wells. Finally, the program establishes a mechanism for facilitating continual improvement of regulatory oversight and a useful dataset for evaluating the effectiveness of current regulatory processes prior to undertaking future rulemakings.</p> <p>Compliance with the Mechanical Integrity Assessment Program necessitates that operators monitor their well inventories and address well characteristics that may eventually result in containment failures, i.e., surface evidence of progressive corrosion or overpressuring of surface or</p>

<i>Report</i>	<i>Description</i>
	<p>coal casing used as production casing. If no containment issues are noted, the inspection results are simply reported to DEP. Through the implementation of the program, DEP has a way to monitor data trends and evaluate well-specific time-series data in the context of water supply complaint investigations.</p> <p>DEP has completed independent verification of a statistically representative fraction of the data submitted to confirm information provided by operators and identify areas of the program where enhancements can be introduced.</p>
DEP Orphan and Abandoned Wells	<p>The DEP Orphan and Abandoned Wells Report provides a detail listing of all wells in Pennsylvania that have been classified as an Orphan and/or Abandoned well.</p>
Oil and Gas Well Formations Report	<p>The Oil and Gas Well Formations Report provides a detail listing of all Oil and Gas wells that have the Oldest, Target and/or the producing formation identified.</p>
Oil and Gas Well Pad Report	<p>The Oil and Gas Well Pad report provides a listing of all Oil and Gas wells that have been identified as being located on a well pad.</p>
Oil and Gas Electronic Notifications Report	<p>The Oil and Gas Electronic Notification Report provides a detailed listing of all the electronic notifications that have been sent to DEP via the Oil and Gas Reporting-Electronic (OGRE) system.</p>
Water Supply Determination Letters	<p>The Water Supply Determination Letters provides a list of all the identified cases where DEP determined that a private water supply was impacted by oil and gas drilling activities.</p>
Water Supply Resolved Complaints	<p>The Water Supply Resolved Complaints Report provides a listing of the water supply complaints showing the resolved date and DEP's final determination.</p>
Special Caution Area Well Report	<p>The Special Caution Area Well Report provides a listing of all wells that have being identified as having a special caution area assigned.</p>

<i>Report</i>	<i>Description</i>
Good Samaritan Act Applications	The Good Samaritan Act Applications report provides a listing of applications that have been received for the Good Samaritan Act program.

5. Non-Interactive Reports

Following is a list of Oil and Gas Reports that are available for the public's use. A brief description is also included. The report name includes a hyper-link to the actual Non-interactive report. A non-interactive report is generated whenever the report link is selected from the web page, no report parameters are needed to generate the report.

<i>Report</i>	<i>Description</i>
Trade Secret-CPI Chemical Codes	This report is a listing of the chemical codes that have been assigned by the organizations and registered with the PADEP Office of Oil and Gas Management as trade secret/ confidential proprietary information pursuant to the DEP form 8000-FOOGM0132.
Well Permit Workload Report	This report is a summary report, generated on a weekly basis on Wednesday mornings. It shows Year-to-Date, Month-to-Date, and Historical totals for all Well Permit Applications. It also shows Year-to-Date and Month-to-Date totals for Oil and Gas Inspections. The wells drilled summary shows totals for previous week, Year-to-Date, current time frame for last year and 2 years priors.
Permits Issued and Wells Drilled Maps (PDF) Select Year to view report 2018 , 2017 , 2016 , 2015 , 2014 , 2013 , 2012 , 2011 , 2010 , 2009	This report is generated on a monthly and yearly basis, generally around the second week of the current month. It contains six (6) informational maps for Permits Issued, wells drilled and Unconventional Permits Issued/Wells Drilled for each month of the year.

6. Parameters / Search Criteria

Following is a list of parameters that are used for the various Oil and Gas reports. Parameters are used to apply criteria to the data being selected.

<i>Parameter</i>	<i>Default</i>	<i>Description</i>
Cause of Impact	ALL	The original complaint causes of the impact that is to be included on the report. (Water Supply Resolved Complaint Report)
Configuration		The well configuration code: DEVIA – deviated wellbore, HORIZ – horizontal well bore, UND – well configuration has not been determined, VERTI – vertical wellbore.
County	All	The county of Pennsylvania where the facility is located.
Date Inspected From (MM/DD/YYYY)		The starting date for the report. Any inspection that has an inspection date that is equal to or greater than this date will be displayed on the report.
Date Inspected to (MM/DD/YYYY)		The ending date for the report. Any inspection that has an inspection date that is less than or equal to than this date will be displayed on the report.
Date Received From (MM/DD/YYYY)		The starting date for the report. Any resolved water supply complaint that has a resolved date that is equal to or greater than this date will be displayed on the report. (Water Supply Resolved Complaint Report)
Date Received to (MM/DD/YYYY)		The ending date for the report. Any resolved water supply complaint that has a resolved date that is less than or equal to than this date will be displayed on the report. (Water Supply Resolved Complaint Report)
DEP Final Determinations	All	The Value of DEP’s final determination that is to be included on the Water supply complaint report. (Water Supply Resolved Complaint Report)
Drill & Operate Well Permit		The total number of permits Issued for the entire selected date range for the Drill & Operate Well permit type.
Drill & Operate Well Permit Drill Deeper		The total number of permits Issued for this authorization type for the entire selected date range
Formation		The name assigned to a particular rock formation.

<i>Parameter</i>	<i>Default</i>	<i>Description</i>
Inspection Category	All	All - All inspection categories will be shown on the report Client – Only client type inspections will be shown on the report Site –Only site (typically ESGP) inspections will be shown on the report. Primary Facility (PF) – Only primary facility (PF) (typically Oil and Gas Well) inspections will be shown on the report.
Inspection with Violations only	No	Yes – Only those inspections within the date range that resulted in a violation will be shown on the report. No – All inspections within the data range will be shown on the report.
MIA		Mechanical Integrity Assessment
MIA Inspection Year (YYYY)		This is the year during which the Mechanical Integrity Assessment Program inspections took place.
MIA Inspection Date (MM/DD/YYYY)		The date the Mechanical Integrity Assessment inspection was completed at the well. Each date is recorded in the following format: MM/DD/YYYY. For unconventional well sites, there will be four inspection dates: one per quarter, unless an inspection was not performed. If only one date appears, it may be the first day of the reporting year (01/01/YYYY), i.e., default date, or it may be the date the inspection was performed at the well.
Mechanical Integrity Assessment		MIA
Municipality	All	The municipality in Pennsylvania where the facility is located.
Nature of the Problem	ALL	The original complaint nature of the problem that is to be included on the report. (Water Supply Resolved Complaint Report)

<i>Parameter</i>	<i>Default</i>	<i>Description</i>
Notification End Date		This will select any notification that has been submitted with a date submitted that is less than and equal to the date entered. The date is entered as mm/dd/yyyy and can be selected from a Calendar just to the right of the date field. Note: The date entered must be less than the current date.
Notification Start Date		This will select any notification that has been submitted with a date submitted that is equal to and greater than the date entered. The date is entered as mm/dd/yyyy and can be selected from a Calendar just to the right of the date field. Note: The date entered must be less than the current date.
Operator	All	The name of the Oil and Gas Operator associated to the well.
Permit API Permit Number		The system assigned permit number assigned to each well based on the county in which the well is located.
Permits Issued End Date (MM/DD/YYYY)		The ending date for the report. Any well permit that has a permit issued date that is less than or equal to this date will be displayed on the report.
Permits Issued Start Date (MM/DD/YYYY)		The starting date for the report. Any well permit that has a permit issued date that is equal to or greater than this date will be displayed on the report.
Region		The location of the DEP Office in Pennsylvania where the facility is located. Compliance Report: The location of the DEP Office in Pennsylvania where the Inspector is located.
Reporting Period		A predetermined Production/Waste/MIA reporting period.
Resolved Violations	No	Yes - Only includes violations related to the inspection that have been resolved. No – All violations related to the inspection will be shown on the report.

<i>Parameter</i>	<i>Default</i>	<i>Description</i>
Sender	ALL	This is the name of the operator that has submitted the notification. A dropdown list is provided so one particular operator may be selected.
SPUD Begin Date (MM/DD/YYYY)		The starting date for the report. Any well permit that has a SPUD date that is equal to or greater than this date will be displayed on the report.
SPUD End Date (MM/DD/YYYY)		The ending date for the report. Any well permit that has a SPUD date that is less than or equal to this date will be displayed on the report.
Status	All	Well Production Status report: All, Submitted or not submitted.
Unconventional Only	No	Yes - Only well permits for oil and gas wells that have been designated as an unconventional well will be selected. No – All well permits issued will be shown regardless of the well designation of conventional or unconventional.
Unconventional Only (PF Inspections)	Yes	Yes - Only primary facility inspections for oil and gas wells that have been designated as an unconventional well. No - All inspections will be shown regardless of the well designation of convention or unconventional.
Wells Drilled Begin Date (MM/DD/YYYY)		The starting date for the report. Any well that has an SPUD date that is equal to or greater than this date will be displayed on the report.
Wells Drilled End Date (MM/DD/YYYY)		The ending date for the report. Any well that has an SPUD date that is less than or equal to this date will be displayed on the report.

7. Data Dictionary

Following is a list of data elements that are used for the various Oil and Gas reports.

11-14 api	The 11 th thru 14 th position of the API number, denoting the construction of the well bore.
Access road collection method	The method in which the coordinates or location data was taken.

Access road datum	A Geodetic datum is a coordinate system, and a set of reference points, used to locate places on the Earth (or similar objects).
Access road latitude	The Global Positioning System (GPS) longitude location of the well pad access road, displayed in decimal degrees using NAD83 datum.
Access road longitude	The Global Positioning System (GPS) longitude location of the well pad access road, displayed in decimal degrees using NAD83 datum.
Access road reference point	The Global Positioning System (GPS) reference point from which all coordinates and locations are taken.
Address	The complete operator address.
Address 1	The first line of the address. This can be the facility address, well pad and/or access road address, Waste facility address, or operator address depending on the report selected.
Address 2	The second line of the address. This can be the facility address, well pad and/or access road address, Waste facility address, or the operator address depending on the report selected.
Address type	The type associated to the address. Well Pad Report: The type of well pad address, chosen from the following list: 911AC – 911 well pad access road address, 911WL – 911 well pad address.
Annular production pressure (psig)	This is the annular production pressure (flowing or shut-in) outside the production casing and inside the next outer casing string. It applies for wells where the production annulus (outside production casing) is plumbed to a sales line or where production annulus gas is used for other on-site applications. It is recorded in psig, if a gauge is available for reference. All wells drilled after February 5, 2011

	<p>must be equipped to measure flowing or shut-in pressures in order to comply with the monitoring requirements of 25 Pa. Code Chapter 78, section 78.88. Certain wells that produce gas through surface or coal strings drilled, altered, reconditioned, or recompleted after February 5, 2011 are required to be equipped with working pressure gauges to monitor surface measured pressures inside coal/surface casings in accordance with 25 Pa. Code Chapter 78, section 78.83(a)(2). Operators may leave the column blank if no gauge is available or input zero (0) if the field is produced using a vacuum system. This field is required for all gas and combination wells equipped with casing pressure gauges where the production annulus is tied in to a sales line or produced for other on-site applications.</p>
Answer	<p>Unique to the OGRE Notification program, this field is what information the operator provided to the question field.</p>
Api Permit	<p>The unique system-generated number (otherwise known as American Petroleum Institute (API) Number) assigned to the permit, the primary facility and the well.</p>
APPL Type	<p>The application type: NEW – a new application MOD – a modification of an existing application REN – a renewal of an existing application that is about to expire.</p>
Application name	<p>A unique name assigned to the Good Samaritan Act Application.</p>
Assigned	<p>The date the water supply complaint was assigned to an inspector.</p>
Assignment resolved	<p>The date that DEP's Final Determination was made.</p>
Auth id	<p>A system generated when the authorization is entered database.</p>

Auth Type	CDOW - Drill & Operate Well Permit (Conventional) CDOWR - Drill & Operate Well Permit Re-drill (Conventional) DOW - Drill & Operate Well Permit DOWA - Drill & Operate Well Permit Alteration DOWCU - Drill & Operate Well Permit Change in Use DOWDD - Drill & Operate Well Permit Drill Deeper DOWDR - Drill & Operate Well Permit Disposal/Enhanced Recovery DOWR - Drill & Operate Well Permit Re-drill UDOW - Drill & Operate Well Permit (Unconventional) UDOWR - Drill & Operate Well Permit Re-drill (Unconventional)
	The quantity being reported was averaged over a group of wells. Y = the production for the well was reported as being part of group of wells N = the production for the well was reported as NOT being part of group of wells.
Cause of impact	What was originally reported as the cause of the impact of the complaint.
Cfpd	Cubic Feet per Day
Chapter 93 - water quality	A water quality classification of the streams and/or bodies of water located nearby.
City	The city where the facility, client, waste facility, or well pad is located depending on the report selected.
Client id	The system generated number created when the operator first applied to be an Oil and Gas Operator in Pennsylvania and was added to the database.
<i>Column name</i>	<i>Description</i>
Comment reason/ comment text	The predetermined non-production reason description concatenated with the comment

	free form text entered on the production report.
Comments	These are text comments supplied by the operator. DEP requests that this column be used to note any significant observations during the inspection. Qualifying observations that might appear out of the ordinary to DEP staff reviewing assessment reports, indicating if annular spaces are plumbed to tanks or not accessible, or describing well construction modifications or design clarifications are some examples.
Comments	These are text comments supplied by the operator as part of the Mechanical Integrity Assessment report. DEP requests that this column be used to note any significant observations during the inspection.
Complaint # Complaint ID	A unique system-generated number assign to the determination letter when the complaint was entered into the database.
Condensate production days	The number of days that the well was in production during the reporting period.
Condensate quantity (bbl)	The volume of condensate production for the well during this reporting period, measured in Bbl, (barrels).
Configuration	The system generated code for the well configuration: DEVIA – deviated wellbore HORIZ – horizontal wellbore UND – well configuration has not been determined VERTI – vertical wellbore
Conservation	A code assigned to the well denoting whether the well is conservation well or not.
Corrosion problems	This field is used to indicate the presence of severe corrosion that will lead to an imminent environmental release, if not addressed. Surface wellhead equipment designed to contain pressure and/or fluids are the focus of this particular inspection element. DEP considers severe corrosion to

	<p>be any corrosion problems that, unless repaired, will result in the imminent failure of well components intended to contain pressure or fluids. Imminent is defined as anticipated to occur within the three-month period between quarterly inspections. Y (Yes) is entered if any severe corrosion is noted, otherwise N (No) is entered. There is no expectation for operators to address minor surface corrosion as part of this inspection, as the presence of some surface oxidation is actually beneficial to the integrity of operating wells. If severe corrosion is noted, it is necessary to report this observation to the District Oil and Gas Inspector Supervisor within 24 hours of identifying the potential problem in accordance with 25 Pa. Code Chapter 78, section 78.88(d).</p>
County	The county of Pennsylvania where the facility is located.
County	The county of Pennsylvania where the facility or project is located.
Created	Well Production Status report: the date the production report was created by the operator.
Current client	The current owner of the well.
Current client id	The system generated number of the current owner.
Current client OGO OGO OGO# OGO number	The Oil and Gas Operator (OGO) number that is assigned to the Well operator when they apply for a well permit.
Date Disposed	The date that the authorizations was issued.
Date Received -Authorizations	The date that the authorization request was received by DEP
Date received – Mechanical Integrity Assessment	The date the most recent Mechanical Integrity Assessment report was imported into DEP’s computer system. Operators may have submitted and had a report imported prior to this date, but in certain cases subsequent submittals supersede earlier reports.

Date sent	The date that the water supply determination was sent to all the affected parties.
Dep approval	An indicator as to whether the application has been approved (Y) or not approved (N) by DEP.
Dep final determination	DEP's Final Determination for Resolved Water Supply Complaints.
Disposal method	The method used to dispose of the waste being reported, chosen from a predetermined list of values.
Document category	<p>This is an identifier for the document type the operator used to submit their annual Mechanical Integrity Assessment report. Historically, either DEP Integrity Form A, DEP Integrity Form B or DEP Integrity Short Form C have been used by operators to report electronically. For the 2017 inspection year (2018 submission year), only DEP Integrity Short Form C is compatible with DEP's reporting system.</p> <p>Certain operators are permitted to report using paper forms, e.g., home-use/on-site use operators (gas is used on property and not sold) or commercial operators with ten (10) or fewer wells in their inventory. However, DEP prefers electronic submissions and has promoted that option through the development of multiple forms. Additionally, an online form has been developed for 2015 that allow electronic data submission for any operator with web access. Paper form submittals are currently labeled "Operator Scanned Form" in the report.</p>
Document Name	The predetermine document name being displayed.
DOGO	The District Oil and Gas Office where the determination letter was generated.
Farm name	The predetermine name associated to the well being permitted for.
EGS id	A system generated identification number assigned to the Good Samaritan Act

	application when it is entered into the database.
Enforcement code & description	The code and description associated to the enforcement.
Enforcement final date	The date the enforcement was finalized.
Enforcement final status	The description used to identify the final status of the enforcement.
Enforcement id	The unique, system-generated identification number assigned to the enforcement record.
Executed enforcement date	The date the enforcement was officially executed which is the date on the enforcement document sent to the client.
Facility latitude	The Global Positioning System (GPS) latitude location of the wells, decimal equivalent using NAD83 datum.
Facility longitude	The Global Positioning System (GPS) longitude location of the wells, decimal equivalent using NAD83 datum.
Facility type	The type of the facility being inspected.
Farm name farm	The operator chosen name for the primary facility or well.
File extension	The document file extension that identifies what windows program can open the file
File name	This is the file name of the report submitted to the DEP.
Fluids noted	All remaining annular spaces and any other surface wellhead components must be surveyed for the presence of fluids (gas, oil, or brine). This survey does not include separators, gathering systems, or any other well site apparatus beyond the last valve to the production equipment. N (No) is entered if no fluids are observed during the inspection. In this case, the categories that follow may be left blank. If fluids are observed, Y (Yes) is entered and all applicable categories that follow are completed to indicate which components of the well are affected and which ones are free from any potential issues. It should be noted that there is currently no reporting provision for pressure observed in association with

	outer annular spaces (those outside intermediate, coal, or surface casing strings).
Form id	An identifier designating which specific form the operator used to record the Mechanical Integrity Assessment inspection data. For electronic submissions, one of three forms (Form A, B or C) have been available for use historically to generate the annual inspection report. Beginning in 2017, DEP made changes to its reporting system that would only permit electronic submissions of Form C for operators choosing to assemble annual inspection data using a spreadsheet. The <i>Form ID</i> field is populated with “HU” for “Home-Use/On-site Use” wells and “CHC” for “Commercial” operators who submitted a “Hardcopy” summary report.
Formation	A name assigned to a geological section of the earth crust.
Formation type	A type classification name assign to the formation.
Gas production days	The number of days that the well was in production during the reporting period.
Gas quantity (mcf)	The volume of gas production for the well during this reporting period, measured in Mcf (1000 Cubic Feet).
GPSlatitude latitude	The Global Positioning System (GPS) latitude location of the wells, measured in degrees, minutes and seconds using NAD83 datum.
GPS longitude longitude	The Global Positioning System (GPS) longitude location of the wells, measured in degrees, minutes and seconds using NAD83 datum.
Inspection category	The category associated to the type of inspection (e.g., PF, Client, or Site).
Inspection client name	The current owner of the facility at the time of the inspection.
Inspection comment	A comment entered by the inspector pertaining to the inspection.
Inspection date	The date the inspection was completed at the well. Each date is recorded in the following format: MM/DD/YYYY. For unconventional

	well sites, there will be four (4) inspection dates: one per quarter, unless an inspection was not performed. Explanations of why an inspection may not have been performed may be recorded in the Standard Comments for No Inspection or the Comments fields. For conventional well sites, there may only be one inspection date, unless an operator has chosen to report all four quarterly inspection results. If only one date appears, it may be the first day of the reporting year (01/01/YYYY), i.e., default date, or it may be the date the inspection was performed at the well. DEP has recommended that conventional well operators provide actual inspection dates and submit data nearest to the time when the report is due. Any exceptions to the formatting described above should be noted in the Comments field.
Inspection date	The date the inspection occurred.
Inspection ID	The unique, system-generated identification number assigned to the inspection record.
Inspection result description	The description of the associated inspection result.
Inspection type	The description for the type of inspection.
Inspection year	This is the year during which the Mechanical Integrity Assessment Program inspections took place. Any exceptions to this should be noted in the Comments field.
Last resent date	The last date and time that the notification was resent to DEP.
Latitude decimal	The Global Positioning System (GPS) latitude location of the wells, decimal equivalent using NAD83 datum.
Latitude offset	The distance in feet south form the corner of a USGS Quad and map section where the well or facility is located.
Liquids to surface or outside freshwater casing	This field designates any liquids (oil or brine) found during the fluid survey to be flowing to the ground surface or outside of any freshwater casing strings (coal, surface, or conductor casing). If liquids are noted, Y

	(Yes) is indicated, otherwise N (No) or no value is entered. Any liquids sourced from below a freshwater casing shoe that are flowing through the fresh groundwater interval or discharging to the ground surface are prohibited by 25 Pa. Code Chapter 78, section 78.81(a)(3).
Longitude decimal	The Global Positioning System (GPS) longitude location of the wells, decimal equivalent using NAD83 datum.
Longitude offset	The distance in feet west form the corner of a USGS Quad and map section where the well or facility is located.
Max allowable pressure exceeded	<p>This field indicates if the maximum allowable pressure is exceeded per 25 Pa. Code Chapter 78, section 78.73(c). This field is required if gas is produced, i.e., plumbed to a sales line or used for other on-site applications, inside coal casing or surface casing. This field is populated in accordance with the following procedure:</p> <ul style="list-style-type: none"> • Indicate Y (Yes) if the flowing or shut-in pressure inside surface or coal casing (either Primary Production Pressure or Annular Production Pressure) is in excess of $80\% \times 0.433 \text{ psi/ft} \times \text{casing set depth in feet}$. • Indicate N (No) if the flowing or shut-in pressure inside surface or coal casing (either Primary Production Pressure or Annular Production Pressure) is less than or equal to $80\% \times 0.433 \text{ psi/ft} \times \text{casing set depth in feet}$. • Indicate U (Unknown) if gas is produced inside surface or coal casing (either Primary Production Pressure or Annular Production Pressure), but the pressure threshold is unable to be calculated because the casing seat depth for the surface or coal casing is unknown.

	Populating this field is not required if no gas is produced inside coal or surface casing, although annular gas pressures should always be maintained below this threshold when gas is present inside surface or coal casing. If the maximum allowable pressure is exceeded, operators must report this observation to the District Oil and Gas Inspector Supervisor within 24 hours of identifying the potential problem in accordance with 25 Pa. Code Chapter 78, section 78.88(d).
Modified	Well Production Status report: the date the production report was modified by the operator.
Municipality	The municipality located in Pennsylvania where the facility is located.
Municipality	The municipality located in Pennsylvania where the facility or project is located.
Nature of problem	What was originally reported as the Nature of the Problem for the complaint.
Notification id	A unique, system-generated identification number assigned when the notification is submitted to DEP.
OGO#, OGO_NUM	The Oil and Gas Operator (OGO) number that is assigned to the Well operator when they apply for a well permit.
Oil production days	The number of days the well was in production during the reporting period.
Oil quantity (bbl)	The volume of oil production for the well during this reporting period, measured in Bbl (barrels).
Open flow outside freshwater casing unit (cfpd)	This is the unit associated with any open flows observed outside freshwater casing strings, which are reported in cfpd.
Open flow outside freshwater casing	This is the cumulative volume of gas observed outside any freshwater casing string, i.e., coal, surface, or conductor casing. For example, if gas flow is observed in any of these annular spaces, the operator enters the combined measured or estimated flow rate in cfpd. If gas flow is present, but cannot be quantified, NRM (not readily measurable) is

	<p>entered. If no gas flow is present outside freshwater casing, the field will either contain a zero (0) or have no value entered. If freshwater casing annular spaces are inaccessible, i.e., subgrade or obstructed by the surface configuration of the well, and fluids were noted in association with some other well component, "I" is entered in this field. "I" may also be found in this field if data were derived from Form A or B. Please note that text characters recorded by operators will be stored in the <i>Open Flow Outside Freshwater Casing Unit</i> field and that Forms A and B were no longer available for use during the 2017 inspection year (2018 reporting year). Any gas sourced from below a freshwater casing shoe that is flowing through the fresh groundwater interval is prohibited by 25 Pa. Code Chapter 78, section 78.81(a)(3). 25 Pa. Code Chapter 78, section 78.85(a)(5) also prohibits gas flow outside surface or coal casing strings.</p>
<p>Open flow outside intermediate casing</p>	<p>This is the cumulative volume of gas observed outside any intermediate casing strings. If gas flow is observed in any of these annular spaces, the operator enters the measured or estimated flow rate in cfpd; or if gas flow is present but cannot be quantified, NRM (not readily measurable) is entered. If no gas flow is present outside intermediate casing, the field will either contain a zero (0) or have no value entered. If intermediate casing annular spaces are inaccessible, i.e., subgrade or obstructed by the surface configuration of the well, and fluids were noted in association with some other well component, "I" is entered in this field. "I" may also be found in this field if data were derived from Form A or B. Please note that text characters recorded by operators will be stored in the Open Flow Outside</p>

	Intermediate Casing Unit field and that Forms A and B were no longer available for use during the 2017 inspection year (2018 reporting year).
Open flow outside intermediate casing unit (cfpd)	This is the unit associated with any open flows reported outside intermediate casing strings, which are reported in cfpd.
Operator PF Operator	The name of the Oil and Gas Operator associated to the well.
Operator address	The well operators complete address, including Address 1, Address 2, City State and Zip code.
Other dispositions	The number of Oil and Gas drill to operate well permits that have not been issued and no longer under review. See Dispositions in Section 5 Definitions / Acronyms .
Ownership begin date	The date that the listed Operator's ownership of the well started.
Ownership end date	The date that the listed Operator's ownership of the well ended.
Parent formation	A higher classification of a rock formation.
Penalty amount	The dollar amount of the penalty assessed.
Penalty final date	The date the penalty was finalized.
Penalty final status code & description	The code and description of the finalized penalty status.
Period ID	A predetermined production or waste reporting period identifier.
Permit /api	The unique system-generated number (otherwise known as American Petroleum Institute (API) Number) assigned to the permit, the primary facility and the well.
Permits processed processed	The number of Oil and Gas drill to operate well type permits that have been issued during the selected date range.
Phone	The Telephone number of the waste facility.
Plugged completed date	The date the plugging of a well was completed.
Primary facility id Prmry Fac Id	The unique, system-generated identification number assigned to the primary facility record.

<p>Primary production pressure(psig)</p>	<p>This is the observed casing pressure (flowing or shut-in) inside the production casing or between the casing and tubing in pounds per square inch gauge (psig) at the time of the inspection, if a gauge is available for reference. All wells drilled after February 5, 2011 must be equipped to measure flowing or shut-in pressures in order to comply with the monitoring requirements of 25 Pa. Code Chapter 78, section 78.88. Certain wells that produce gas through surface or coal strings drilled, altered, reconditioned, or recompleted after February 5, 2011 are required to be equipped with working pressure gauges to monitor surface measured pressures inside coal/surface casings in accordance with 25 Pa. Code Chapter 78, section 78.83(a)(2). Operators may leave the column blank if no gauge is available or input zero (0) if the field is produced using a vacuum system. This value does not represent a tubing pressure reading unless well tubing is used to isolate the produced horizon by being set on a packer or cemented in place in an open-hole completion scenario, i.e., gas enters the wellbore directly from the exposed reservoir rock and not through perforated casing. This pressure may also be zero (0) in instances where the well is a cased-hole completion, i.e., gas enters the wellbore through cemented production casing that has been perforated, and tubing has been set on a packer inside of the production casing. This field is required for all gas, coalbed methane, and combination wells equipped with casing pressure gauges.</p>
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<p>Production annulus open flow or shut-in pressure</p>	<p>This is the vent flow rate for gas flowing from the production casing annulus in cfpd, if the annulus valve was open and gas was venting to the atmosphere during the inspection. If the production annulus was shut-in during the inspection, the annular pressure in psig is reported. If no flow or pressure is present, the value will be reported as zero (0). If gas is present, but cannot be quantified, NRM should be recorded. Finally, if the production annulus is inaccessible, i.e., subgrade or obstructed by the surface configuration of the well, "I" is entered in this field. Please note that text characters recorded by operators will be stored in the Production Annulus Open Flow or Shut-in Pressure Unit field.</p> <p>All wells with separate production casing strings drilled after February 5, 2011 must be equipped/designed to measure production annulus flow or pressure in order to comply with the monitoring requirements of 25 Pa. Code Chapter 78, section 78.88.</p> <p>The presence of gas in this case is not necessarily a defect, but instead may be an intentional well design feature. For example, leaving the cement top down on the production casing to vent a shallow gas-bearing zone that is not economical to produce due to low pressure or volume may be one reason for the presence of annular gas. Such a design feature may be important for ensuring that gas is isolated to the wellbore.</p>
<p>Production annulus open flow or shut-in pressure unit (cfpd or psig)</p>	<p>This is the unit associated with the Production Annulus Open Flow or Shut-in Pressure measurement.</p>
<p>Production indicator</p>	<p>A Yes/No indicator for production reporting. A 'Y' indicates there was production reported</p>

	and an 'N' indicates no production was reported during the reporting period.
Production open vent flow	This is the vent flow rate for wells with engineered vents in cases where associated gas is not tied in to production. This often applies for oil wells producing inside of surface or coal casing that vent associated gas to comply with 25 Pa. Code Chapter 78, section 78.83(a)(1) or multi-string oil or combination wells that vent production casing gas because either no pipeline or gas market is available. It is emphasized that this condition is not a well-construction defect, but rather an engineered vent to regulate pressures and allow liquids production.
Production open vent flow unit (cfpd)	This is the observed flow rate unit in cubic feet per day (cfpd) for the open vent flow described above. Operators may indicate NRM (not readily measurable) if the flow cannot be constrained for measurement or is too low to estimate with standard equipment. This field is not required for all wells, as in most instances production gas is not vented.
Project name	A unique name assigned to the Good Samaritan Act project.
Psig	Pounds per Square Inch Gauge
Question	Unique to the OGRE Notification program, this field provides guidance to the operator as to what information is to be provided.
Received	The number of Oil and Gas drill to operate well type Permit applications that have been received in the DEP Regional Offices during the date range selected.
Received date	The date the most recent report was imported into DEP's data management system. Operators may have submitted and had a report imported prior to this date, but in certain cases subsequent submittals supersede earlier reports.
Record source	The DEP system/program that was used to enter the information.

Region	The location of the DEP Office in Pennsylvania where the facility is located.
Region	The location of the DEP Office in Pennsylvania where the facility is located. Compliance Report: The location of the DEP Office in Pennsylvania where the Inspector is located.
Related enforcements	Enforcement IDs that are related to the violation.
Related violations	Violation IDs that are related to the enforcement.
Reporting period	The description of the reporting period.
Resent success	A system generated Yes or No answer as to the success and/or failure of the notification being resent to DEP.
Resolution reason code & description	The code and description identifying the resolution reason.
Resolved date	The date that the violation was determined to be resolved.
Retracted	Well Production Status report: the date the production report was retracted and updated by the operator.
Rock unit	A name assigned to a particular type or age of rock.
Sent date	The date and time that the notification was submitted to DEP.
Sent success	A system generated Yes or No answer as to the success and/or failure of the notification being submitted to DEP.
Site ID PF Site ID	The unique, system-generated identification number assigned to the site name.
Site id / name	A system-generate number for the site concatenated with the operator chosen name for the site.
Site name or site	The operator chosen unique name for the site where the well will be located.
Special caution area	A designation of an area that may have a particular environmental and/or health and safety concerns, such as Hydrogen Sulfide.

Spud date	The date reported to DEP by the well Operator that drilling of the well has commenced.
Standard comments for no inspection	<p>This is a feature exclusive to Form C that allows an operator to explain why they did not perform an inspection for a well. The following standard options are available. A brief description of why an operator might use these standard comments has also been provided:</p> <ul style="list-style-type: none"> • Plugged well [1] – The well has been plugged and does not require a quarterly inspection per 25 Pa. Code Chapter 78, section 78.88 of the regulations. The operator must rectify their records with DEP’s information in this case per the available instructions. • This is not our well [2] – The well does not belong to the operator and they no longer have legal access to the well site. The operator must rectify their records with DEP’s information in this case per the available instructions. • Gas storage well [3] – The well is currently being used as a gas storage well and does not require a quarterly inspection per 25 Pa. Code Chapter 78, section 78.88 of the regulations. The operator must rectify their records with DEP’s information in this case per the available instructions. • Well spud-drilling not completed [5] – The well has not been drilled to total depth (TD). Quarterly inspections are only required the first full quarter after the well has been drilled to TD. • Regulatory inactive well [6] – The well has been granted regulatory inactive status by the DEP and does not require a quarterly inspection per 25 Pa. Code Chapter 78, section 78.88 of the regulations. The

	<p>operator must rectify their records with DEP’s information in this case per the available instructions.</p> <ul style="list-style-type: none">• Injection well [7] – The well is currently being used as an injection well and does not require a quarterly inspection per 25 Pa. Code Chapter 78, section 78.88 of the regulations. The operator must rectify their records with the DEP’s information in this case per the available instructions.• Observation well [8] – The well is currently being used as an observation well and does not require a quarterly inspection per 25 Pa. Code Chapter 78, section 78.88 of the regulations. The operator must rectify their records with DEP’s information in this case per the available instructions.• Status validation underway [9] – The operator has not been able to complete a quarterly inspection for any number of reasons not captured in the other standard comments. The operator will be required to resolve the situation and provide the necessary inspection information in subsequent reports. It has been recommended that operators also provide a text comment when “status validation underway” is chosen in order for DEP to better understand why the inspection was not completed.• Permitted but never drilled [10] – A permit has been issued for the well, but has since expired and the operator has decided not to drill the well. The operator must rectify their records with DEP’s information in this case per the available instructions. It should be noted that for Forms A and B, standard comments are not provided to the operators. If an inspection was not performed, the
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	reason should be detailed within the Comments field.
State	The state where the facility, operator, waste facility, or well pad is located (depending on the report selected).
Status – Authorizations	The Current status of the authorization for the Authorization document reviewer program only issued authorizations will be displayed.
Status Well Status Current Status	<p>Active – permit has been issued and well may or may not have been drilled or producing, but has not been plugged.</p> <p>Proposed but Never Materialized – permit was issued, but expired prior to the commencement of drilling.</p> <p>Plugged OG Well – permit issued and well has been plugged by well operator.</p> <p>Operator Reported Not Drilled – permit issued, but operator reported to DEP that they never drilled the well.</p> <p>DEP Abandoned List –an abandoned well that has been inspected by DEP.</p> <p>DEP Orphan List – A well abandoned prior to April 18, 1985, that has not been affected or operated by the present owner or operator and from which the present owner, operator or lessee has received no economic benefit other than as a land.</p> <p>DEP Plugged – a DEP Abandoned or DEP Orphan well that has been plugged by DEP,</p> <p>Regulatory Inactive Status – a well status that is requested by well operator and has been granted by DEP. Well is capable of producing, but is temporarily shut in. Granted for initial 5 years and must be renewed yearly after first 5 years.</p> <p>Abandoned –a well that has not been used to produce, extract or inject any gas, petroleum or other liquid within the preceding 12 months; for which equipment necessary for production, extraction or injection has been removed; or considered dry and not equipped for production.</p>

Status date	The last date that the well status was updated.
Stratigraphic code	A unique number assigned to the formation.
Sub facility id	The unique, system-generated identification number assigned to the sub facility record.
Sub facility status	The current status of the sub facility chosen from the following list: ABAND-Abandoned, ACTIV-Active, DEPAL-on the DEP abandoned well list, DEPOL-on the DEP orphan well list, DEPPL- on the DEP plugged well listing and has been plugged by DEP, ORND-Operator Reported Not Drilled, PBNM- Proposed but never Materialized, PLUG- well has been plugged, RINAC-well has been granted regulatory inactive status.
Subject	The description of the notifications is submitted, including the regulation number and the permit / API number.
Submitted	Well Production Status report: the date the production report was submitted to DEP by the operator.
Surface elevation	The distance above sea level of the well location.
Surface wellhead equipment emission rate	This field is reserved for gas observed in association with any wellhead equipment critical for providing well control, allowing a safe working environment around the well, or preventing environmental impacts. Gas emissions represent measured or estimated flow rates in cfpd. In cases when emissions are noted, but cannot be readily quantified, either NRM or Y (Yes) is entered. Please note that text characters recorded by operators will be stored in the <i>Surface Wellhead Equipment Emission Rate Unit</i> field. If no gas is present, the field will either contain a zero (0), N (No), or have no value entered.
Surface wellhead equipment emission rate unit(cfpd)	This is the unit associated with any surface wellhead equipment emissions, which are reported in cfpd.

Total amount collected	The total amount collected from the client for the penalty. This is a sum of the amount received for each payment record.
Twp/boro	The Township or Borough located in Pennsylvania where the facility is located.
Unconventional	A well type indicator. Yes = The well has been determined as being an unconventional well base on its producing formation. No = The well has been determined as a conventional well base on its producing formation.
Unconventional indicator	A well type indicator. Yes = The well has been determined as being an unconventional well base on its producing formation. No = The well has been determined as a conventional well base on its producing formation.
Under review	The number of Oil and Gas drill to operate well type permit applications that are currently being reviewed for accuracy and completeness by the DEP Regional Offices during the date range selected.
Units	The unit of measure of waste being reported.
Usgs quad	The United States Geological Survey (USGS) 7.5-minute quadrangle map, which is usually named after a local physiographic feature.
Violation code & description	The code and description for the violation that was identified during the inspection.
Violation comment	A comment entered by the inspector pertaining to the violation.
Violation date	The date the violation was identified.
Violation ID	The unique, system-generated identification number assigned to the violation record.
Violation type	The type of violation (Administrative or Environmental Health & Safety).
Waste facility name	The name of the waste facility that received the waste being reported.
Waste facility permit #	The permit number assigned to the waste facility.
Waste quantity	The volume of waste being report, reported in barrels (Bbl) or tons.

Waste type	The type of waste being reported, chosen from a list of values.
Water level or other	This parameter is required for oil or combination wells producing oil inside of surface or coal casing. The surrogate parameters described below may be provided, as access to water levels at producing wells is often not feasible. Water level in feet below ground surface, mud scale weight of the produced fluid in pounds per gallon (ppg), average daily pumping time in hours per day, average daily pumping volume in barrels (bbls) per day; or a water quality measurement of the produced fluid in milligrams per liter Total Dissolved Solids (mg/L TDS), mg/L Total Chlorides (mg/L Cl), or conductivity in microSiemens per centimeter ($\mu\text{S}/\text{cm}$) are all acceptable for this inspection parameter.
Water level or other unit (various)	This is the unit associated with the water level or surrogate parameter for the value provided above. Measurement options are discussed in the previous section. For wells that do not produce water, NPW is indicated for No Produced Water.
Well configuration	The system, generated code for the well configuration: DEVIA – deviated wellbore, HORIZ – horizontal well bore, UND – well configuration has not been determined, VERTI – vertical wellbore.
Well county	The county of Pennsylvania where the facility is located.
Well latitude	The Global Positioning System (GPS) latitude location of the wells, decimal equivalent using NAD83 datum.
Well longitude	The Global Positioning System (GPS) longitude location of the wells, decimal equivalent using NAD83 datum.
Well municipality	The municipality located in Pennsylvania where the facility is located.

Well not submitted	A summary count of the wells that the operator has not reported production for.
Well pad	A unique name assign to a constructed site containing a group of wells.
Well pad collection method	The method in which the coordinates or location data was taken.
Well pad datum	A Geodetic datum or geodetic system is a coordinate system, and a set of reference points, used to locate places on the Earth (or similar objects).
Well pad id	A unique, system generated identification number assigned to the well pad.
Well pad latitude	The Global Positioning System (GPS) longitude location of the well pad, displayed in decimal degrees using NAD83 datum.
Well pad longitude	The Global Positioning System (GPS) longitude location of the well pad, displayed in decimal degrees using NAD83 datum.
Well pad reference point	The Global Positioning System (GPS) reference point from which all coordinates and locations are taken.
Well permit #	The system generated permit number (otherwise known as American Petroleum Institute (API) Number) for the primary facility or well.
Well type	The type of the well chosen from the following list: Coalbed Methane, Dry Hole, Gas, Injection, Multiple Well Bore, Observation, Comb. Oil and Gas, Oil, Storage Well, Test Well, Temp Unspecified, Undetermined, Waste Disposal.
Wells permitted	The number of wells that the Oil and Gas drill to operate well type Permits Issued have generated.
Wells submitted	A summary count of the wells that the operator has reported production for.
Zip	The zip code of the city and state where the facility, operator, waste facility, or well pad is located (depending on the report selected).

8. Other Definitions / Acronyms

Following is a list of other commonly used definitions and acronyms used by the Oil and Gas Program.

<i>Item</i>	<i>Description</i>
Access Road	The road allowing controlled access to and from the well pad.
Auth	An abbreviation for authorization
Authorization(s)	An internal database unique-system generated document created when a well permit application is entered into the database.

<i>Item</i>	<i>Description</i>
Bbl	Barrels – the unit of measure for reporting Condensate, Oil production and some waste types production. One Barrel represent 42 U.S. gallons.
Conservation Well	A conservation well is defined as any well penetrating the top of the Onondaga Limestone (or equivalent formation when the Onondaga is absent) and is at least 3,800 feet deep. This term is defined by the Oil and Gas Conservation Law. The Pennsylvania Geological Survey considers a “deep” well to be any well that penetrates the Middle Devonian Tully Limestone.
Conventional Well	A conventional gas well, also known as a traditional well, is a well that produces oil or gas from a conventional formation. Conventional formations are variable in age, occurring both above and below the Elk Sandstone. While a limited number of such gas wells are capable of producing sufficient quantities of gas without stimulation by hydraulic fracturing, most conventional wells require this stimulation technique due to the reservoir characteristics in Pennsylvania. Stimulation of conventional wells, however, generally does not require the volume of fluids typically required for unconventional wells.
Datum	A Geodetic datum is a coordinate system, and a set of reference points, used to locate places on the Earth (or similar objects).
Dispositions Disposition Code	A unique database code that is assigned to all Oil and Gas drill to operate well type permit applications/authorizations as they move thru the permit review process. Dispositions codes include: PEND – Pending- Oil and Gas drill to operate well type application is still under review WITH – Withdrawn – Oil and Gas drill to operate well type application has been withdrawn by the submitter/operator. REVOK – Revoked - the Oil and Gas drill to operate well type application has been revoked by DEP. RETN – Returned – the Oil and Gas drill to operate well type permit application has been returned to the submitter/Operator due to incompleteness or accuracy errors.

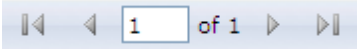
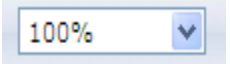
<i>Item</i>	<i>Description</i>
	<p>ERROR – Entered in error – a mistake was entered when the Oil and Gas drill to operate well type permit application was first entered into the database.</p> <p>DENI – Denied – the Oil and Gas drill to operate well type permit application was denied by permit reviewer and have been returned to the submitter/operator.</p> <p>ISSU – Issued – the Oil and Gas drill to operate well type permit application have been accepted and the Oil and Gas drill to operate well type permit has been issued.</p>
Drilling	The drilling or re-drilling of any well or the deepening of any existing well.
Gas	Any fluid, either combustible or noncombustible, which is produced in a natural state from the earth and which maintains a gaseous or rarified state at standard temperature of 60 degrees Fahrenheit and pressure 14.7 PSIA, any manufactured gas, any byproduct gas or any mixture of gases.
Historical	This section includes all historical information from the very first permit issue up to and including the ending date for the report.
Hydrogen Sulfide	Hydrogen sulfide is a poisonous gas, and is familiar as the smell of rotten eggs.
Map Section	Each United States Geological Survey (USGS) quadrangle is divided into 9 equal sections.
Mcf	One thousand Cubic Feet – the unit of measure for reporting gas production.
Oil	Hydrocarbons in liquid form at standard temperature of 60 degrees Fahrenheit and pressure 14.7 PSIA.
Primary Facility	A part of the DEP database where high level information about a well is stored.
Quad or Quadrangle	In geology or geography, refers to a United States Geological Survey (USGS) 7.5-minute quadrangle map, which is usually named after a local physiographic feature.
SPUD Date	The date that the drilling of a well commenced.
Sub Facility	A part of the DEP database where detailed information about a well (drilling activity) is stored.

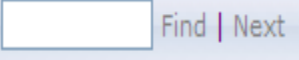
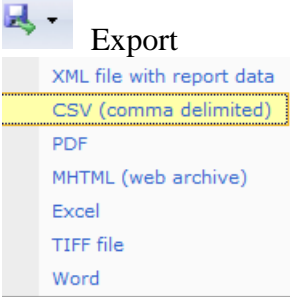


<i>Item</i>	<i>Description</i>
Unconventional Wells	An unconventional gas well is a bore hole drilled or being drilled for the purpose of or to be used for the production of natural gas from an unconventional formation. An unconventional formation is defined as a geologic shale formation below the base of the Elk Sandstone or its geologic equivalent where natural gas generally cannot be produced except by horizontal or vertical well bores stimulated by hydraulic fracturing.
Weekly	Information under these sections is for the previous calendar week, starting with Saturday and ending with Friday.
Well	<p>A bore hole drilled or being drilled for the purpose of or to be used for producing, extracting or injecting any gas, petroleum or other liquid related to oil or gas production or storage, including brine disposal, but excluding bore holes drilled to produce potable water to be used as such. The term “well” does not include a bore hole drilled or being drilled for the purpose of or to be used for systems of monitoring, producing or extracting gas from solid waste disposal facilities, as long as the wells are subject to the act of July 7, 1980 (P.L. 380, No. 97), known as the Solid Waste Management Act, and do not penetrate a workable coal seam. The term also does not include a borehole drilled or being drilled for the purpose of or to be used for degasifying coal seams if the following conditions are satisfied:</p> <p>(1)(A) the bore hole is used to vent methane to the outside atmosphere from an operating coal mine; and</p> <p>(B) the bore hole is regulated as part of the mining permit pursuant to the act of June 22, 1937 (P.L. 1987, No. 394), known as The Clean Streams Law, and the act of May 31, 1945 (P.L. 1198, No. 418), known as the Surface Mining Conservation and Reclamation Act; and</p> <p>(C) the bore hole is drilled by the operator of the operating coal mine for the purpose of increased safety; or</p>

<i>Item</i>	<i>Description</i>
	(2) The bore hole is used to vent methane to the outside atmosphere pursuant to a State or Federal funded abandoned mine reclamation project.
Well Drilled	The number of well that the operator has reported to DEP the SPUD Date.
Well Operator or Operator	The person designated as the well operator or operator on the permit application or well registration. Where a permit or registration was not issued, the term shall mean any person who locates, drills, operates, alters or plugs any well or reconditions any well with the purpose of production there from.
Well Pad	The area that has been cleared in order to where one or more wells are to be drilled.
YTD	Year-to Date. Information under these section is for the current calendar year, starting with January and ending with December.

9. Report Controls

Following is a list of functions/controls used by the reporting software tool.

<i>Item</i>	<i>Description</i>
	Used for paging from report page to report page.
	Used to set the size of the report displayed.

<i>Item</i>	<i>Description</i>
	Used to search the report for specific information.
	Used to select the file type of the report exporting. NOTE: The best export option for viewing and sorting data is CSV. Selecting CSV will export the data as a comma delimited file, and most default systems are set to open the CSV file in Excel (spreadsheet format).
 Refresh	Used to refresh the report based on the earlier selected parameters.
 Print	Used to print the current report to your local selected printer.

10. Version History

Version	Date	Revision reason
1.0	03/21/2013	Created Interactive Report Data Dictionary
1.1	03/22/2017	Updated Data Dictionary to include Interactive and Non Interactive Reports and Applications
1.2	03/30/2018	Updated Data Dictionary to include Interactive Report – Inspection Report Viewer and Good Samaritan Act Application Viewer.
1.3	4/23/2018	Update Data Dictionary to include Inspection Report Viewer Report, Authorizations Documents Viewer Report and Mechanical Integrity Assessment (MIA) Report.
1.4	6/18/2018	Made corrections to Data Dictionary, removed duplicate entries