



# **Learning Aid: Alberta Public Data – Well Infrastructure Download**

Updated: September, 2022

THIS MATERIAL IS CONFIDENTIAL AND SHALL NOT BE USED FOR ANY OTHER PURPOSE OR DISCLOSED TO ANY OTHER PARTY WITHOUT PRIOR APPROVAL BY PETRINEX.



## Change Log

<b>Date</b>	<b>Section</b>	<b>Changes</b>
September, 2022	Data Field Table	New Orphan Well Flag
March, 2022	Throughout Document	Cleanup and re-format of document
January, 2022	Throughout Document	Cleanup and re-format of document



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The goal of this document is to provide information on the Alberta well infrastructure downloads accessed from the Petrinex Alberta Public Data page.

## Introduction

Alberta non-confidential well information referenced in this document can be accessed by the public through the Alberta Public Data Access link on the Petrinex web site.

The current status of all the Alberta wells in Petrinex as of the file creation date will be included in the downloadable files. The well information in this extract has had well data protection rules applied.

**Note:** If users require a Saskatchewan well infrastructure output file, they are required to access the [Saskatchewan Public Data Access](#) link on the Petrinex web site.

## Scheduling and Timing

The Alberta well infrastructure files are created nightly and available for public downloading the next morning. When a well is changed from non-confidential to confidential the files will be recreated immediately.

During the re-creating process, the “Updated Date” column on the Alberta Public Data Access page for the file will be changed to “Refreshing...”. When the process is finished, the “Updated Date” will be updated to the file creation date.

Downloadable Files	Updated Date
<input type="checkbox"/> Business Associate	2018-04-26 20:10:15
<input checked="" type="checkbox"/> Well Infrastructure	Refreshing...
<input type="checkbox"/> Well Licence	2018-04-26 20:10:15
<input type="checkbox"/> Facility Infrastructure	2018-04-26 20:10:15
<input type="checkbox"/> Facility Operator History	2018-04-26 20:10:15
<input type="checkbox"/> Well to Facility Link	2018-04-26 20:10:15
<input type="checkbox"/> Facility Licence	2018-04-26 20:10:15

When the well is linked to more than one facility:

- There will be multiple rows in the CSV extract.
- For XML format the linked facility fields and commingled well fields will be repeated.



## Downloads

This data download is available from the Alberta Public Data Access web page in Comma-Separated Value (CSV) and Extensible Markup Language (XML) formats. Select the desired report, choose a file format and click the “Download” button to obtain the download.

Petrinex functionality allows users to request this report using a separate API address rather than the “download” process. Your report request should follow the following criteria:

[https:// www.petrinex.gov.ab.ca/publicdata/API/Files/{Jurisdiction}/Infra/{FileName}/{FileFormat}](https://www.petrinex.gov.ab.ca/publicdata/API/Files/{Jurisdiction}/Infra/{FileName}/{FileFormat})

Examples:

[https:// www.petrinex.gov.ab.ca/publicdata/API/Files/AB/Infra/Well%20Infrastructure/CSV](https://www.petrinex.gov.ab.ca/publicdata/API/Files/AB/Infra/Well%20Infrastructure/CSV)

[https:// www.petrinex.gov.ab.ca/publicdata/API/Files/AB/Infra/Well%20Infrastructure/XML](https://www.petrinex.gov.ab.ca/publicdata/API/Files/AB/Infra/Well%20Infrastructure/XML)

Note: The report results will be the same no matter which of the request processes you use.

Users downloading reports for personal use should request the CSV format. This format can be imported to and exported from programs that store data in tables, such as Microsoft Excel. For further information on creating an excel spreadsheet from CSV see the section below titled “Open and Save CSV Document as Excel Spreadsheet”.

Users downloading the data to upload into other systems should request the XML format. This format shares both the format and the data using standard ASCII text. An XML format is similar to HTML.



## Data Fields

Data Element Name	Data Type	Length	Description	Data Protection
Well ID	String	20	The Province/State, Node type and Unique identifier of the Well	
Well Province/State	String	2	Well Province/State for the well	
Well Type	String	2	Well Type for the well (always WI)	
Well Identifier	String	20	Unique identifier for the well	
Well Location Exception	String	2	The DLS Legal Location Exception designation for the well.	
Well Legal Subdivision	String	2	The DLS Legal Subdivision designation for the well.	
Well Section	String	2	The DLS Section designation for the well.	
Well Township	String	3	The DLS Township designation for the well.	
Well Range	String	2	The DLS Range designation for the well.	
Well Meridian	String	2	The DLS Meridian designation for the well.	
Well Event Sequence	String	1	The DLS Event Sequence designation for the well.	
Well Name	String	66	The name of the well	
Confidential Type	String	60	Type of confidentiality assigned to the well. Non-Confidential, Confidential or Confidential below. Well confidentiality applies to both infrastructure and volumetric data.	
Experimental Confidential Indicator	String	1	Experimental confidential Indicator (Y/N). Experimental confidentiality applies to volumetric data only.	
Experimental Confidential Effective Date	Date	10	Experimental confidential Effective date (YYYY-MM-DD), if applicable. Experimental confidentiality applies to volumetric data only.	
Experimental Confidential Termination Date	Date	10	Experimental confidential Termination date (YYYY-MM-DD), if applicable. Experimental confidentiality applies to volumetric data only.	
Licence Type	String	20	Type of Licence. "WELL".	



Data Element Name	Data Type	Length	Description	Data Protection
Licence Number	String	9	The Unique number identifying the licence that the well id has been assigned.	
Linked Facility ID	String	20	The Province/State, Node Type and Unique identifier of the Linked Facility.	
Linked Facility Province/State	String	2	Province/State for linked Facility	
Linked Facility Type	String	2	Type for linked Facility	
Linked Facility Identifier	String	20	Unique identifier for linked Facility	
Linked Facility Name	String	60	Facility Name of the linked facility	
Linked Facility SubType	String	3	Current linked Facility sub type number	
Linked Facility SubType Desc	String	60	Current linked Facility sub type description	
Linked Start Date	Date	10	Date (YYYY-MM-DD) well to facility link started	
Linked Facility Operator BA ID	String	20	Operator ID (Code) of the operator	
Linked Facility Operator Legal Name	String	150	The Operator's Legal Name for the BA Legend report	
Field	String	12	Unique Identifier for the field	
Field Name	String	60	Name of the field	
Area	String	12	Unique identifier for the area	
Area Name	String	60	Name of the area	
Pool-Deposit	String	12	Unique Identifier for the pool or deposit in which the well event is producing or injecting	Masked for Confidential or Confidential Below well
Pool-Deposit Name	String	60	Name of the pool or deposit	Masked for Confidential or Confidential Below well
Pool/Deposit Density	Decimal	(9,1)	The density in kg/m3 of the Pool	Masked for Confidential or Confidential Below well
Well Status Fluid	String	12	Abbreviation of the primary fluid produced by the well event.	
Well Status Mode	String	12	Abbreviation of the mode of operation for the well event.(Examples include flowing, pumping etc.)	



Data Element Name	Data Type	Length	Description	Data Protection
Well Status Type	String	12	Abbreviation of the purpose of the well event. Examples include production, injection, etc.)	
Well Status Structure	String	12	Abbreviation of the structure of the well event. If the well is capable of production from more than one zone, each well event will be assigned a structure code indicating that more than one zone has been completed or whether those zones have been commingled.	
Well Status Fluid Code	String	2	The code of the primary fluid produced by the well event	
Well Status Mode Code	String	2	The code of the mode of operation for the well event.	
Well Status Type Code	String	2	The code of the purpose of the well event.	
Well Status Structure Code	String	2	A code to represent the structure of the well event. If the well is capable of production from more than one zone, each well event will be assigned a structure code indicating that more than one zone has been completed or whether those zones have been commingled.	
Well Status Date	Date	10	Date (YYYY-MM-DD) new well status became effective	
Spud Date	Date	10	Date (YYYY-MM-DD) that the drilling operations commenced with the intention to drill the well to the projected total depth.	
Horizontal Drill	String	20	The direction of the drilling operation of the well (horizontal, directional or vertical)	
Finished Drill Date	Date	10	Date (YYYY-MM-DD) that the drilling operations to reach the total depth for the well were completed.	
Final Total Depth	Decimal	(22,9)	The depth as measured along the well path to the bottom of the well.	
Max True Vertical Depth	Decimal	(22,9)	The maximum true vertical depth from the surface to the final total depth or deepest point, measured on a straight line.	
Volumetric Gas Well Liquid Type	String	60	The type of liquid hydrocarbon that is produced by this well event if it is	



Data Element Name	Data Type	Length	Description	Data Protection
			classified as a gas well. These liquids are typically classified as Oil or Condensate.	
Volumetric Gas Well Liquid Effective Date	Date	10	Volumetric Gas Well Liquid effective date (YYYY-MM-DD)	
Licensee ID	String	20	A code that uniquely identifies the business associate of the current well licensee.	
Licensee Name	String	150	The name of the business associate for the current well licensee.	
Commingling Process Approval Number	String	10	Approval number of the commingling well.	
Commingling Process	String	20	The reporting well commingling process associated with a well event.	
Commingling Eff. Date	Date	10	The date (YYYY-MM-DD) in which commingling process became effective.	
Commingled Reporting Well ID	String	20	The Province/State, Node type and Unique identifier of the Reporting Well.	
Commingled Reporting Well Province/State	String	2	Well Province/State for the commingled Reporting well (always AB)	
Commingled Reporting Well Type	String	2	Well Type for the commingled Reporting well (always WI)	
Commingled Reporting Well Identifier	String	20	Unique identifier for the commingled Reporting well	
Commingled Linked Facility ID	String	20	The Province/State, Node type and Unique identifier of the linked facility.	
Commingled Linked Facility Province/State	String	2	Province/State for Commingled Linked Facility (always AB)	
Commingled Linked Facility Type	String	2	Type for Commingled Linked Facility	
Commingled Linked Facility Identifier	String	20	Unique identifier for Commingled Linked Facility	
Allowable Type	String	60	The allowable type describes whether the well is subject to allowable surveillance and, if so, what type of allowable is used as the basis of the calculation.	
Block Number	String	3	The number that uniquely identifies a production block within a pool. Blocks are used for administering production allowables.	



Data Element Name	Data Type	Length	Description	Data Protection
Recovery Mechanism Type	String	60	Description of recovery mechanism unique to the pool assigned to the well event	
Licence Issue Date	Date	10	Date the licence was issued.	
Licence Status Date	Date	10	Current licence status date	
Licence Status	String	20	Current licence status	
Previous Well identifier	String	20	The previous well ID assigned to the well if any.	
Orphan Well Flag	String	1	'Y' or 'N' value. Derived from the facility licence. If 'Y', the facility licence is designated to the Orphan Well Association (OWA). (SEE NOTE BELOW)	

**Note:** In cases where no facility/well licence is linked to a reporting facility/well code, the “Orphan Well Association” field will be omitted from Petrinex screens, in the associated reports the new field will be will be blank.



## Open and Save CSV Document as Excel Spreadsheet

If you have selected the Well Infrastructure Report and your download format is CSV, you should save your report to an appropriate folder. Click the “arrow” beside the “Save As” option to save this report to the selected folder.



Note: The file that you save will be a zipped file (.zip). When you click on the file name it will open the zip file and present the requested report(s) which you will need to save to directory folder you have access to.

When you open your csv report, you will notice that all of the preceding zero’s in any of the data has been lost. Example BA Code 0123 would show as 123, Facility Identifier 0000123 would show as 123. You need to create a worksheet in text in order to sort and filter your report as necessary.

- a. Open a new Excel worksheet, and click on **Data** to import your saved report into this new worksheet.
- b. Click **From Text** to open the Import Text file window
- c. Highlight the document that you previously saved and click **Import**.
- d. This opens the Text Import Wizard:
  1. Click the radio button – **Delimited** and click **Next**
  2. Change the radio button under Delimiters from Tab to **Comma** and click **Next**.
  3. You will want to change all of the columns to be Text rather than General. To do this – Hold down the Shift Key and using the scroll bar on the bottom bring it as far to the right as you can. This will highlight all of the columns.
  4. Click the radio button **Text**
  5. Click **Finish**
  6. You are now asked where you want to put the data? Click the radio button – **Existing Worksheet** and click **OK**.
  7. Save the new worksheet as a .XLSX or .XLS file.



## Glossary Terms

**AER:** Alberta Energy Regulator (Website: <http://aer.ca/>)

**CONFIDENTIALITY:** Well confidentiality, which may also be referred to as geological (geo) or licensed confidentiality, protects the geological and stratigraphic information.

- **CONFIDENTIAL:** If the well is outside the limits of AER-designated pools (formerly known as G orders) or inside the boundaries of an existing AER-designated confidential pool.
- **CONFIDENTIAL BELOW:** Assigned when one or more uphole zones penetrated by the well is inside an AER-designated nonconfidential pool. The “confidential below” formation name is the name of the deepest designated pool the well penetrates.
- **NON-CONFIDENTIAL:** When the well terminates in or just below an AER-designated nonconfidential pool and is targeting that pool. If the well type and substance are production of crude bitumen in an oil sands area, the well is also nonconfidential.

**ORPHAN WELL ASSOCIATION (OWA):** The OWA is an industry-funded not-for-profit organization that safely closes orphaned assets. When there is no legally responsible party to look after an asset, the AER may designate it an orphan. The responsibility for the orphaned asset is then transferred to the OWA. [More information about the OWA.](#)

**PUBLIC DATA:** Also known as “non-operator data” refers to Petrinex data available to non-operators in Petrinex.