



Learning Aid: AB Public Data – Conventional Volumetrics Data Download



# **Learning Aid: Alberta Public Data – Conventional Volumetric Data Download**

Dated: September 2022

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## Change Log

Date	Section	Changes
September 2022	Scheduling and Timing	Updated based on Petrinex enhancements effective Aug 3/22
March, 2022	Throughout Document	Cleanup and re-format of document
June 19, 2020	Activity Code Table	Definition for Activity “Royalty”



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The goal of this document is to provide information on the Alberta conventional volumetric data download accessed via the Petrinex Alberta Public Data page.

## Introduction

Alberta conventional volumetric information referenced in this document can be accessed by the public through the Alberta Public Data Access link on the Petrinex web site.

Current production year plus the past four production years of conventional volumetric data is provided.

This data download excludes Waste Plant and Oil Sands volumetric reporting and is subject to current confidential and commercially sensitive data protection rules.

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

## Scheduling and Timing

The process to generate Alberta conventional volumetric data runs monthly following the AER Volumetric Reporting Deadline.

A conventional volumetric data file will be regenerated immediately for the appropriate production month when:

- A well is changed from non-confidential to confidential.
- A facility is changed from non-experimental to experimental.
- A well that has confidential type = confidential or confidential below is linked to a facility with a sub type.
  - Gas Test (subtype 371)
  - Drilling/Completing (subtype 381)

An enhancement was implemented to Petrinex in August 2022 to add a trigger to monitor UWI changes and refresh the public data volumetric downloads accordingly. This ensures data consistency between Petrinex and Public Data. When a UWI change is made in Petrinex, the impacted volumetric downloads are refreshed overnight.

## 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 production month(s), choose a file format and click the “Download” button to obtain the download(s)

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}/Vol/{FileName}/{FileFormat}>

Examples:

<https://www.petrinex.gov.ab.ca/publicdata/API/Files/AB/Vol/2022-01/CSV>

<https://www.petrinex.gov.ab.ca/publicdata/API/Files/AB/Vol/2022-01/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. The XML format is similar to HTML



## Data Fields

Data Element Name	Data Type	Length	Description	Data Protection
Production Month	YearMonth	7	Year month (YYYY-MM) for production month	
Operator BA ID	String	20	Operator ID (Code) of the reporting facility for the production month	
Operator Name	String	150	BA name of the reporting facility operator for the production month	
Reporting Facility ID	String	20	Unique identifier of the reporting facility	Row based rules applied
Reporting Facility Province/State	String	2	Province/State for the Reporting Facility	
Reporting Facility Type	String	2	Type for the Reporting Facility	
Reporting Facility Identifier	String	7	Numeric component of the unique identifier for the Reporting Facility	
Reporting Facility Name	String	60	Facility Name of the reporting facility	
Reporting Facility Subtype	String	3	Subtype Code indicating purpose of facility	
Reporting Facility Subtype Desc	String	60	Subtype description	
Reporting Facility Location	String	20	Facility Location is made up of: legal subdivision-section-township-range-meridian.	
Facility Legal Subdivision	String	2	The DLS Legal Subdivision designation for the location of a facility.	
Facility Section	String	2	The DLS Section designation for the location of a facility.	
Facility Township	String	3	The DLS Township designation for the location of a facility.	
Facility Range	String	2	The DLS Range designation for the location of a well.	
Facility Meridian	String	2	The DLS Meridian designation for the location of a facility.	
Submission Date	Date	10	Last updated date (YYYY-MM-DD)	
Activity ID	String	12	Activity code	
Product ID	String	12	Product code	
From/To ID	String	20	Unique identifier of the From/To facility or well	From/To ID rules applied
From/To ID Province/State	String	2	Province/State for the From/To ID	
From/To ID Type	String	2	Type for the From/To ID	



Data Element Name	Data Type	Length	Description	Data Protection
From/To ID Identifier	String	16	Numeric component of the unique identifier for the From/To ID	
Volume	Decimal	(13,3)	Volume of product (m3 for liquids, e3m3 for gas)	
Energy	Decimal	(13,3)	Energy of gas (GJ)	
Hours	Integer	3	Hours of production or injection.	Hours rules applied in AB
CCI Code	string	1	Consecutive Concurrent Injection indicator.	
Proration Product	string	12	Product which Proration Factor is applied to	
Proration Factor	Decimal	(6,5)	Proration Factor for the product	
Heat	Decimal	(5,2)	Wellhead heat value of gas, if reported (MJ/m3)	In Alberta this will be blank

## DATA PROTECTION RULES:

- **Row Based Rules:**
  - If a reporting facility is an experimental confidential facility for a production month, only facility identification information for the production month will be included in the extract file
  - If a reporting facility type is a TM (Terminal), MS (Meter Station), GP (subtype 407- Gas Plant Fractionation), PL (Pipeline), CT (Custom Treating) or RF (Refinery), the facility identification information and the volumetric data will not be included in the extract file. (As per Security Blanket; See Petrinex Tip - [Access to Gross Volumetric Data \(Security Blanket\) dated May 28, 2018](#))
  - Volumetric rows that are for instream component (ISC) products will not be included in the extract file.

If a reporting facility is a Gas Test (subtype 371) or Drilling/Completing (subtype 381) facility and it has confidential wells (Confidential or Confidential Below) linked to it for a production month, the volumetric data for the facility and production month will not be included in the extract file, **unless there are also nonconfidential wells attached, and if that is the case the well activity volumes associated with the nonconfidential wells will be released.** (It will behave similarly to the experimental confidential facilities.)



- **From/To ID Rules:**

- The From/To ID field will be displayed as “\*\*\*\*” and the volumes for the submission (production month and reporting facility ID) will be summed up by product and activity when the From/To IDs are either:
  - Experimental confidential facility.
  - A Gas Test (subtype 371) or Drilling/Completing (subtype 381) facility that has confidential wells (Confidential or Confidential Below) linked to it for the production month.
- For activity DISP, the From/To ID field will be displayed as “\*\*\*\*” and the volumes for the submission (production month and reporting facility ID) will be summed up by product when the From/To IDs are either:
  - Facility type TM, MS, GP (subtype 407), PL, CT, WP or RF (As per Security Blanket; See Petrinex Tip - [Access to Gross Volumetric Data \(Security Blanket\) dated May 28, 2018](#))
  - 4- or 2-character miscellaneous code (e.g. AB, TX, ABRC, BCLF).

- **Hours Rule:**

- If a well (From/To field) is a confidential or confidential below well for a production month, the hours field will be displayed as “\*\*\*\*” in the downloadable files.



## Open and Save Document as Excel Spreadsheet

If you have selected the Conventional Volumetrics 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 a 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.



## Facility Codes

Facility Code	Description
BT	Battery
CS	Compressor Station
CT	Custom Treating Facility
GP	Gas Plant
GS	Gas Gathering System
IF	Injection/Disposal Facility
MS	Metering Station
OS	Oil Sands Processing Plant
PL	Pipeline
RF	Refinery
TM	Terminal
WP	Waste Plant
WS	Water Source



## Volumetric Product Codes

General Information		
Product Code	Unit of Measurement	Description
ACGAS	10 <sup>3</sup> m <sup>3</sup>	Acid Gas
AIR	10 <sup>3</sup> m <sup>3</sup>	Air
BRKWTR	m <sup>3</sup>	Brackish Water
C1-MX	m <sup>3</sup>	Methane Mix
C2-MX	m <sup>3</sup>	Ethane Mix
C2-SP	m <sup>3</sup>	Ethane Spec
C3-MX	m <sup>3</sup>	Propane Mix
C3-SP	m <sup>3</sup>	Propane Spec
C4-MX	m <sup>3</sup>	Butane Mix
C4-SP	m <sup>3</sup>	Butane Spec
C5-MX	m <sup>3</sup>	Pentanes Mix
C5-SP	m <sup>3</sup>	Pentanes - Spec
C6-MX	m <sup>3</sup>	Hexane Mix
C6-SP	m <sup>3</sup>	Hexane Spec
CO2	10 <sup>3</sup> m <sup>3</sup>	Carbon Dioxide
CO2-MX	m <sup>3</sup>	Carbon Dioxide Mix
COND	m <sup>3</sup>	Condensate
DIESEL	m <sup>3</sup>	Diesel Oil
ENTGAS	10 <sup>3</sup> m <sup>3</sup>	Entrained Gas
FSHWTR	m <sup>3</sup>	Fresh water
GAS	10 <sup>3</sup> m <sup>3</sup>	Gas
HELIUM	m <sup>3</sup>	Helium
IC4-MX	m <sup>3</sup>	Iso-Butane Mix
IC4-SP	m <sup>3</sup>	Iso-Butane Spec
IC5-MX	m <sup>3</sup>	Iso-Pentane Mix
IC5-SP	m <sup>3</sup>	Iso-Pentane Spec
LITEMX	m <sup>3</sup>	Lite Mix
N2	10 <sup>3</sup> m <sup>3</sup>	Nitrogen
NC4-MX	m <sup>3</sup>	Normal Butane Mix
NC4-SP	m <sup>3</sup>	Normal Butane Spec
NC5-MX	m <sup>3</sup>	Normal-Pentane Mix
NC5-SP	m <sup>3</sup>	Normal-Pentane Spec
O2	10 <sup>3</sup> m <sup>3</sup>	Oxygen
OIL	m <sup>3</sup>	Crude Oil, Crude Bitumen
SAND	m <sup>3</sup>	Sand



<b>General Information</b>		
<b>Product Code</b>	<b>Unit of Measurement</b>	<b>Description</b>
SBASE	tonnes	Sulphur – Basepad
SBLOC	tonnes	Sulphur – Block
SFORM	tonnes	Sulphur – Formed
SLATE	tonnes	Sulphur – Slate
SMOLT	tonnes	Sulphur – Molten
SOLV	10 <sup>3</sup> m <sup>3</sup>	Solvent
SPRILL	tonnes	Sulphur – Prill
STEAM		Steam
SUL	tonnes	Sulphur
SYNCRD	m <sup>3</sup>	Synthetic Crude
WASTE	m <sup>3</sup>	Waste
WATER	m <sup>3</sup>	Water



## Activity Codes

<b>Activity Code</b>	<b>Description</b>	<b>Valid Facility Types</b>
<i>DIFF</i>	<i>Difference</i>	<i>All except WP</i>
<i>DISP</i>	<i>Disposition</i>	<i>All</i>
EMIS	Emission	<i>All except WP</i>
FLARE	Flare	All except WP
FLARWAST	Flared or Wasted	OS
FRAC	Fractionate	GP
FUEL	Fuel	All
FURPROC	Further Processing	OS
<i>IMBAL</i>	<i>Imbalance</i>	<i>All</i>
INJ	Injection	IF
INVADJ	Inventory Adjustment	All
INVCL	Inventory Close	All
<i>INVOP</i>	<i>Inventory Open</i>	<i>All</i>
LDINJ	Load injection	BT, GS
LDINVADJ	Load inventory adjustment	BT, GS
<i>LDINVCL</i>	<i>Load inventory close</i>	<i>BT, GS</i>
<i>LDINVOP</i>	<i>Load inventory open</i>	<i>BT, GS</i>
LDREC	Load recovered	BT, GS
MINED	Oil Sands Mined	OS
PLTUSE	Plant Use	IF, OS
<i>PROC</i>	<i>Process to create product</i>	<i>GP, GS, OS</i>
PROD	Production	BT, GS, OS
<i>PURDISP</i>	<i>Purchase Disposition</i>	<i>All except WP</i>
PURREC	Purchase Receipt	<i>All except WP</i>
REC	Receipt	All
RECYC	Recycle	IF
<i>ROYALTY *</i>	<i>ROYALTY</i>	<i>WI</i>
<i>SHR</i>	<i>Shrinkage</i>	<i>BT, CT, GP, PL, TM</i>
SHUTIN	Shut in	All
UTIL	Utilities	IF
VENT	Vent	All except WP

\* ROYALTY is the portion of total production designated by the company as royalty. It does not represent the actual royalty calculated by the Province.



## 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.
- **EXPERIMENTAL CONFIDENTIAL:** Within an experimental scheme (a scheme or operation for the recovery or processing of oil or gas, including the drilling and completion of wells for production or injection, where the users’ methods are untried and unproven for that particular application), to which the AER has granted confidentiality.

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