



Learning Aid: AB Public Data – NGL and Marketable Gas Volumes



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Change Log

Date	Section	Changes
Feb 29/24	Data Fields Table	Additional column indicating data type and source
Feb 27/24	Data Fields – Data Protection Rules	Important Note added – moved under Data Fields Table
February 2024		Initial Release



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The goal of this document is to provide information on the Alberta NGL and marketable gas volumes data download accessed via the Petrinex Alberta Public Data page.

Introduction

The NGL volumetric submissions and stream allocation information defined in this document can be accessed by the public through the Petrinex web site.

Data is available from January 2014 forward. Files will be split based on the production month and each downloadable file will contain one production month of data submitted in Petrinex as of the file creation date.

Data protection that ensures no confidential, experimental, or otherwise commercially sensitive information will be implemented.

The functionality contained within this document only applies to Alberta.

Origin and Uses of the NGL and Marketable Gas Volumes Report

This report and data extraction was built at the request of the producing Oil & Gas Industry (represented by CAPP and EPAC). The purpose of this report is to make available a more complete and granular profile of all the hydrocarbon volumes being delivered from each wellbore each month, supplementing the existing reporting of wellhead volumes alone.

The increased transparency which will result from this data set being available within the public domain will benefit a broad cross-section of industry stakeholders in a variety of impactful ways, notably including:

1. Improvement in their technical understanding of the reservoir,
2. Fuller economic valuation of capital investment decisions.
3. GORR and Freehold royalty owners can confirm the volumes they are being paid are accurate.

Scheduling and Timing

The process to generate the NGL volumetric submissions and stream allocation data will be run monthly on the Alberta Energy and Minerals allocation monthly deadline. See the monthly [AB Reporting Calendar](#) for the timing of this deadline.



The data file for a production month will be **regenerated immediately** for the production month when a facility and or a well is changed from **non-confidential to confidential** and **non-experimental to experimental**. Likewise, the data file for a production month will be **regenerated during the monthly refresh** for the production month when a facility and/or a well is changed from **confidential to non-confidential** and **experimental to non-experimental**.

Public data will not be refreshed for production months beyond the Alberta Energy and Minerals Statute Barred year.

Downloads and/or API Address

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}/NGL/{FileName}/{FileFormat}>

Example to get the NGL & Marketable Gas Volumes file for the month 2023-12 (AB Only):

<https://www.petrinex.gov.ab.ca/publicdata/API/Files/AB/NGL/2023-12/CSV>

<https://www.petrinex.gov.ab.ca/publicdata/API/Files/AB/NGL/2023-12/XML>

Note: The report results will be the same no matter which of the request processes you use (API or Download).

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

Column	Data Element Name	Type/Source of Data	Data Type	Length	Description	Data Protection
A	Facility ID	Infrastructure	String	20	Unique identifier of the reporting facility	Row based rules applied
B	Facility Name	Infrastructure	String	60	Facility Name of the reporting facility	
C	Operator BA ID	Infrastructure	String	20	Operator ID (Code) of the reporting facility for the production month	
D	Operator Name	Infrastructure	String	150	BA name of the reporting facility operator for the production month	
E	Production Month	Infrastructure	YearMonth	7	The production month for which the information was submitted	
F	Well ID	Infrastructure	String	20	Unique identifier of the well, units and well groups	Well ID rules applied
G	Well License Number	Infrastructure	String	9	Unique number identifying the well license	
H	Field	Infrastructure	String	12	Unique Identifier for the field	
I	Pool	Infrastructure	String	12	Unique Identifier for the pool in which the well event is producing or injecting	
J	Area	Infrastructure	String	12	Unique identifier for the area	
K	Hours	Production - AER*	Integer	3	Hours of production or injection	
L	Gas Production	Production - AER*	Decimal	(10,1)	Volume of gas (e3m3)	
M	Oil Production	Production - AER*	Decimal	(10,1)	Volume of oil (m3)	
N	Condensate Production	Production - AER*	Decimal	(10,1)	Volume of condensate (m3)	
O	Water Production	Production - AER*	Decimal	(10,1)	Volume of water (m3)	
P	Residue Gas Volume	Allocation - AEM*	Decimal	(10,1)	Volume of residue (e3m3)	
Q	Energy	Allocation - AEM*	Decimal	(10,1)	Total of all Energy of gas (GJ)	
R	Ethane Mix Volume	Allocation - AEM*	Decimal	(10,1)	Volume of ethane mix (m3)	



Column	Data Element Name	Type/Source of Data	Data Type	Length	Description	Data Protection
S	Ethane Spec Volume	Allocation - AEM*	Decimal	(10,1)	Volume of ethane spec (m3)	
T	Propane Mix Volume	Allocation - AEM*	Decimal	(10,1)	Volume of propane mix (m3)	
U	Propane Spec Volume	Allocation - AEM*	Decimal	(10,1)	Volume of propane spec (m3)	
V	Butane Mix Volume	Allocation - AEM*	Decimal	(10,1)	Volume of butane mix (m3)	
W	Butane Spec Volume	Allocation - AEM*	Decimal	(10,1)	Volume of butane spec (m3)	
X	Pentane Mix Volume	Allocation - AEM*	Decimal	(10,1)	Volume of pentane mix (m3)	
Y	Pentane Spec Volume	Allocation - AEM*	Decimal	(10,1)	Volume of pentane spec (m3)	
Z	Lite Mix Volume	Allocation - AEM*	Decimal	(10,1)	Volume of lite mix (m3)	

* AER - Alberta Energy Regulator, AEM - Alberta Energy and Minerals

Important: The NGL & Marketable Gas Volume Report data is triggered by allocation submission(s) reported to the AEM for various streams for a particular production month. If there are no allocations submitted for the stream ID then the stream (WI, UN, WG etc.) will not appear on the report even though there may be production reported to the AER at the well.



Data Fields – Data Protection Rules:

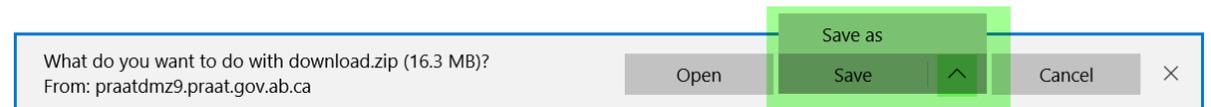
- **Row Based Rules:**
 - If a reporting facility is an experimental confidential facility for a production month, only facility identification information for the production month will be included in the extract file.
 - Confidential and experimental data is excluded from the report.
 - A change from non-confidential to confidential or non-experimental to experimental is updated near real time.
 - A change from confidential to non-confidential or experimental to non-experimental is updated during the monthly refresh.

- **Well ID Rules:**
 - If a Well ID is an experimental confidential well for a production month, this will be excluded for the production month from the report.
 - Units and Well Groups are excluded from this rule as the report will only be showing the total production volume and a single row for each unit and well group allocations.



Open and Save Document as Excel Spreadsheet

If you have selected the NGL and marketable gas volumes 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 zeros 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

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.