PETRINEX
CANADA'S PETROLEUM INFORMATION NETWORK

Learning Aid:
Public Data – Conventional Volumetrics Report

Dated: May, 2018

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The goal of this document is to provide the details for the conventional volumetric information accessed from the Petrinex public data page.

Introduction

Conventional volumetric (excluding Waste Plant and Oil Sands) information defined in this document can be accessed by the public through the Public Data link on the Petrinex web site.

Current production year plus past four production years conventional volumetric data is provided. Rolling window is on a yearly basis based on production month.

For example, all the volumetric data files for production year 2014 will be unavailable after 2019-01 volumetric monthly deadline and new column for production year 2019 will be added. Files will be split based on the production month. Each downloadable file will contain one production month volumetric data submitted in Petrinex as of the file creation date.

Volumetric data protection rules are applied here.

Note: Currently the scope of the output file is only Alberta data.

Scheduling and Timing

The process to generate conventional volumetric data will be run monthly on the volumetric monthly deadline night.

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

- 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)

Downloads

This report will be available to download in Comma-Separated Value (CSV) and Extensible Markup Language (XML) formats.

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

Data Fields

Data Element Name	Data Type	Length	Description	Data Protection
Production Month	gYearMonth	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	Sub-Type Code indicating purpose of facility	
Reporting Facility SubType Desc	String	60	Sub-Type 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		Type for the From/To ID	

Data Element Name	Data Type	Length	Description	Data Protection
		2		
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
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	

Open and Save Document as Excel Spreadsheet

You have selected the Conventional Volumetrics Report and your download format (CSV or XML). When you receive the download you should save your report in your directory by clicking the “arrow” beside save to open the Save As option to save this report in your personal directory.

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 your personal directory.

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	10^3m^3	Acid Gas
AIR	10^3m^3	Air
BRKWTR	m^3	Brackish Water
C1-MX	m^3	Methane Mix
C2-MX	m^3	Ethane Mix
C2-SP	m^3	Ethane Spec
C3-MX	m^3	Propane Mix
C3-SP	m^3	Propane Spec
C4-MX	m^3	Butane Mix
C4-SP	m^3	Butane Spec
C5-MX	m^3	Pentanes Mix
C5-SP	m^3	Pentanes - Spec
C6-MX	m^3	Hexane Mix
C6-SP	m^3	Hexane Spec
CO2	10^3m^3	Carbon Dioxide
CO2-MX	m^3	Carbon Dioxide Mix
COND	m^3	Condensate
DIESEL	m^3	Diesel Oil
ENTGAS	10^3m^3	Entrained Gas
FSHWTR	m^3	Fresh water
GAS	10^3m^3	Gas
IC4-MX	m^3	Iso-Butane Mix
IC4-SP	m^3	Iso-Butane Spec
IC5-MX	m^3	Iso-Pentane Mix
IC5-SP	m^3	Iso-Pentane Spec
LITEMX	m^3	Lite Mix
N2	10^3m^3	Nitrogen
NC4-MX	m^3	Normal Butane Mix
NC4-SP	m^3	Normal Butane Spec
NC5-MX	m^3	Normal-Pentane Mix
NC5-SP	m^3	Normal-Pentane Spec
O2	10^3m^3	Oxygen
OIL	m^3	Crude Oil, Crude Bituman
SAND	m^3	Sand
SBASE	tonnes	Sulphur – Basepad

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

Activity Codes

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

Glossary Terms

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

CONFIDENTIALITY: Wells have a status for confidentiality (known as well confidentiality, geological confidentiality or licenced confidentiality).

- **CONFIDENTIAL:** Outside all AER designated pools or inside a Confidential AER designated pool.
- **CONFIDENTIAL BELOW:** Inside Non-Confidential AER designated pool but drilling to deeper horizons.
- **NON-CONFIDENTIAL:** Inside Non-Confidential AER designated pool at or near expected Total Depth (TD) of well or inside Oil Sands Area with production of crude bitumen.

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. (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.
    - Unlinked experimental confidential well.
    - 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 Rules:**
  - 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.

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, that users methods that are untired and unproven in 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.