



Oil Forecast Tool Town Hall Meeting

Conoco Phillips Auditorium
January 23, 2017



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1. Petrinex Overview
2. Oil Forecast Tool Project Background
3. The Oil Forecast Report
4. The Oil Forecast Tool
5. How to use the Oil Forecast Tool functions:
 - a. On line Screens
 - b. Batch submissions
6. What Reports are Available & When
7. APMC Perspectives
8. Questions and Answers

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1. Petrinex Overview



- Petrinex is a joint strategic organization supporting Canada's upstream, midstream and downstream petroleum industry through effective collection and dissemination of information critical to regulatory, royalty and commercial activities in the sector.
- Petrinex is governed, managed and funded by government and regulators (DOE, ECON, AER) and industry (represented by CAPP and EPAC).
- Petrinex continues to respond to changing needs of its users and sponsoring stakeholders.
- Work is underway or planned for inclusion of other jurisdictions in Petrinex (including BC and Indian Oil and Gas Canada).
- Petrinex has been challenged by the Petrinex Executive Board to identify "Bold Move" ideas that could benefit the sector in response to the downturn in commodity prices.
- **You** can influence and participate in the ongoing evolution of Petrinex.

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2. Oil Forecast Tool Project Background



The monthly oil forecasting process is used by:

1. **Producers** to estimate and communicate the volume of oil to be delivered to pipelines and shippers (incl. Crown for royalty volumes).
2. **Shippers** to submit nominations to the pipelines.
3. **Pipelines** to gage total demand vs. capability and, if required, apportion available space between shippers.
4. **Shipper/Marketers** to assess the volumes they must market in the coming month.

Oil Forecasting Issues



- Historical forecast variances are significant:
 - **Gross**
 - **Crown**
 - **Non-Crown**
- Gross forecast errors impact all shippers.
- Crown share forecast errors impact the Crown and all other shippers even when Gross forecasts are accurate.
- **Gross volume variances** are inevitable due to operational changes.
- **Gross volume variances** can be reduced with increased focus and communication between forecasters and operational staff.

Oil Forecasting Issues (cont'd)

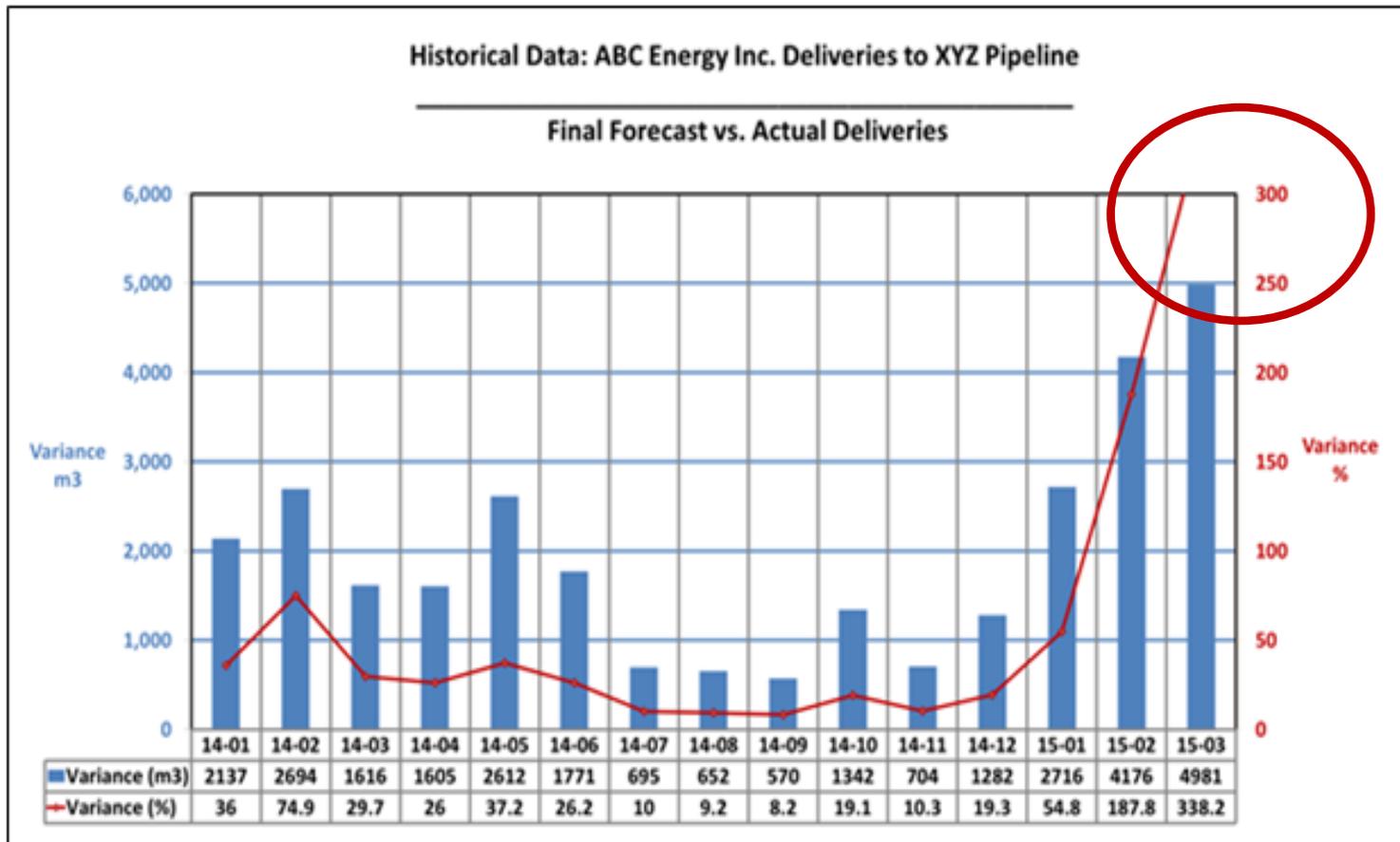


Crown Volumes

- Crown forecast volume variances are much greater than Gross variances.
- The Crown Royalty share is:
 - **Not a fixed percentage.**
 - **Not the same as last month.**
 - Calculated at the **well level.**
 - Significantly impacted by well royalty “**attributes**” and “**programs**”.
 - Dramatically impacted by the **Par Prices** published monthly in advance of the forecasting cycle.
- **Par Price** changes account for most of the variance in most months.
- Given the complexity of the royalty calculations and vast number of wells, **most operators forecast gross production at the battery level and apply the previous month’s splits to derive a forecast for each shipper (including the Crown). This is called templating-forward.**

Oil Forecasting Issues (cont'd)

- Crown variances have been over **300%**.
- Crown variances create an equal/opposite variance in non-Crown share.



Oil Forecast Tool Origins and Concepts:

- After over a year of industry consultation sponsored by the Wellhead-to-Dollars Committee (comprised of executive representatives from the DOE, APMC and Industry) a recommendation was made that an oil forecasting tool be developed on Petrinex and adopted as a standard across Industry.
- Development of the tool was approved by the Wellhead-to-Dollars Committee.
- Subsequently the CAPP Markets and Transportation Executive Policy Group, EPAC, the APMC and the Petrinex Steering Committee approved the tool and the funding approach.

Project Overview: Original Scope



Original Oil Forecast Tool scope had two components and an implementation of Q2 2017.

Part 1. Gross and Crown functionality

- Jointly funded by Industry and the APMC.
- Industry was invoiced October 2015 for its 50% funding share.

Part 2. Non-Crown functionality

- To be funded 100% by Industry
- Invoices were to be issued in April 2016.

In light of the current economic environment the Oil Forecast Tool project scope was:

- **Modified** and
- **Accelerated**.

Project Overview: Revised Scope



- **Part 2 Non-Crown** functionality was not be pursued but may be at a later date.
- **Part 1 Gross and Crown** functionality advanced in two releases:
 - **1a. Oil Forecast Report:**
This Gross and Crown Forecast Report was available in Petrinex starting late January 2016. **This is a “static monthly report”.**
 - **1b. Oil Forecast Tool:**
This Gross and Crown Forecast Tool will be implemented February 2017. **This is an “interactive user-friendly tool”**
- The **Forecast Report** will continue to made available for 6-12 months after the **Tool** is implemented.

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3. The Oil Forecast Report



- The **Oil Forecast Report** is an existing internal APMC report.
 - Created in DOE/APMC systems at the well and battery level.
 - Delivered monthly (both versions) prior to the forecast reporting deadline, through Petrinex, in csv format.
 - Based on the last month reported production volume.
 - Assumes gross production rate unchanged (adjusts for days in the month).
 - Uses correct Par Price for the forecast month.

The **Oil Forecast Report** can be used to improve Crown volume forecasts:

1. It can be compared to gross/Crown forecasts generated by existing processes. Final forecasts can be modified using this information as appropriate.

Oil Forecast Report (Cont'd)



The Forecast Report is accessed by Industry via two menu options in Petrinex:

1. Ministry Invoices & Statement
2. Forecast Reporting

The Oil Forecast Report can provide an appropriate estimate of the Crown share if your gross production has not changed.

However the Forecast Tool should be used to provide a better forecast of the Crown share if your gross production needs to be updated.

The Forecast Report will continue to be made available for 6-12 months after the Tool is implemented.

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4. The Oil Forecast Tool



- Oil Forecast “Tool” is to help industry create better forecasts of monthly Crown royalty “take-in-kind” volumes.
 - Crown share is very sensitive to Par Price changes.
 - Templating-forward “last month’s” Crown split can lead to significant variances and has cost the Crown and industry many millions of \$.
- Oil Forecast “Tool”
 - Jointly funded by Industry and APMC
 - **Implementation:** February 2017 release.

4. The Oil Forecast Tool



- Oil Forecast “Tool” is a set of new Petrinex functionality allowing: Industry Forecasters (marketer/schedulers) to:
 - Create “**Facility View Lists**” (Groups of producing batteries) that align with their Form A submissions
 - Request the **initial Oil Forecast Gross and Crown Forecast Report**
 - Review the report and **modify the gross volumes**
 - at the Group, Battery or Well level;
 - Petrinex will recalculate Crown share at the Well level and roll it up to the Battery or Group level as appropriate.
 - Request an **updated Oil Forecast Gross and Crown Forecast Report**
 - Use the Gross and Crown Forecast report data to improve their existing forecast processes.
 - **Compare the forecasted Gross and Crown to actuals reported**
- All submissions can be performed “Online” or by “Batch” processes.***

Initiatives – APMC/Industry Conventional Oil Forecast Tool Project



<http://www.petrinex.ca/204.asp>

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Last Message Posted: 12/14/2016 9:53 AM

Last Review/Updated: January-03-17 10:05 AM

APMC/Industry Conventional Oil Forecast Tool Project

Documents

- [Industry Readiness Guide](#) - updated Dec 20, 2016
- Information Bulletin - [Status update and notice of implementation date change](#) - posted Oct 7, 2016

Job Aids

- [Instructions for Industry Interoperability Testing and Transmittal Form](#) - posted Jan 3, 2017
- [How to Create Groups of Batteries for Petrinex Oil Forecast Tool Functions](#) - updated Dec 20, 2016
- [Oil Forecast Submissions Spreadsheet Upload Specifications](#) - updated Dec 20, 2016
- [Oil Forecast Submissions Spreadsheet Templates](#) - updated Dec 20, 2016
- [How to Use the Conventional Oil Forecast Report](#) - updated Jan 29, 2016

Presentations

- [Conventional Oil Forecast Update Meeting - January 25, 2016](#)



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5a. How to Use the Oil Forecast Functions: Oil Forecast Tool On line Functions



Each BA USA must create a role(s) for the Oil Forecast Tool functions.

This is an example of an Oil Forecast Edit role and all the applicable tasks.

Once created the role(s) must be assigned to a user at the BA.

Refer to the Industry Readiness guide for details on the steps required to do this setup.

Menu AB BA: Name: PRIMARY_USA

[\[Admin Functions\]](#) > [\[Security\]](#)

Manage User Roles

Current Roles

Oil Forecasting Edit

Assigned Tasks

- Batch Upload
 - Batch Upload (Schema checking only)
 - Edit Facility View List
 - Edit Oil Forecast
 - Oil Forecast - Facility View List Report
 - Oil Forecast - Gross and Crown Forecast Report
 - Oil Forecast - Variance Report
 - Oil Forecast Manage Forecast Reporting
 - Query Facility View List
 - Query Oil Forecast
 - Submit Report Request
-

Oil Forecast Tool On line Functions (Cont'd)



Menu Inbox Help Contacts Logout AB BA: Name:

The Oil Forecast Tool functions are found in two places on the Petrinex Menu

The first is under Monthly Reporting - Oil Forecast which includes all the edit and query tasks.

- [-] Monthly Reporting
 - [+] Volumetric
 - [+] Oil/LPG Pipeline Splits
 - [+] Gas Pipeline Splits
 - [+] Allocation
 - [+] Waste Plant
 - [+] Oil Sands
 - [+] APMC Reporting
 - [-] Oil Forecast
 - [+] [Edit Oil Forecast](#)
 - [+] [Query Oil Forecast](#)
 - [+] [Edit User Forecast Facility View List](#)
 - [+] [Query User Forecast Facility View List](#)
 - [+] [Manage Forecast Reporting](#)
 - [+] [WIP Maintenance](#)
- [-] Allowable Costs
 - [+] AC1
 - [+] Facility Cost Centre Operator Change

Oil Forecast Tool On line Functions (Cont'd)



The Oil Forecast Tool functions are found in two places on the Petrinex Menu.

The second is under Submit Report Request where there are 3 new reports available. These reports will be discussed later in the presentation.

Menu Inbox Help Contacts Logout AB BA: Name:

[Reports and Queries](#)

Submit Report Request

Report:

- AB Crown Shippers' Balance to Crown Splits Trace Report
- AC1 - FCC Setup/Change Report
- AC2 - FCC Capital and Operating Costs Allowance Report
- AC2 - Status Report
- AC3 - Allowable Costs Reallocations Report
- AC4 - Operating Cost Claim Report
- AC5 - FCC Custom Processing Fees Paid Report
- Allocation - Cascade SAF Report
- Allocation - OAF Report
- Allocation - SAF Report
- Allocation - Static Factor Report
- Allocation - Variance Report
- Allocation - WIO Report
- APMC Transportation and Overdelivery Claims Report
- APMC Volume P/L Split Report
- Business Associate Report
- Facility Infrastructure Report
- Facility Operator Report
- Licence Report
- Oil Capability Delivery Report
- Oil Capability Producer Report
- Oil Forecast - Facility View List Report
- Oil Forecast - Gross and Crown Forecast Report
- Oil Forecast - Variance Report
- Oil Sands Facility Activity Report
- Pipeline Split - CTP Operator Report
- Pipeline Split - Current Report
- Pipeline Split - Operator Report
- Pipeline Split - Owner Report

Oil Forecast Tool On line Functions (Cont'd)



     **AB** BA:
Menu Inbox Help Contacts Logout Name:

Quicklist:

[\[Monthly Reporting\]](#) > [\[Oil Forecast\]](#)

Edit Oil Forecast

Forecast Month:   Facility View List:   

The Edit Oil Forecast Screen opens with options to type in or use the arrows to:

- Change the Forecast Month
- Select a Facility View List

Oil Forecast Tool On line Functions (Cont'd)



Menu Inbox Help Contacts Logout AB BA: Name: Quicklist: _____

[\[Monthly Reporting\]](#) > [\[Oil Forecast\]](#)

Edit Oil Forecast

Forecast Month: 2017-04 < > Refresh Facility View List: ALL < > Go
Area One
Area Two

The Edit Oil Forecast Screen opens with options to type in or use the arrows to:

- Change the Forecast Month
- Select a Facility View List

Then click Go to open the details for the forecast selected.

Oil Forecast Tool On line Functions (Cont'd)



[\[Monthly Reporting\]](#) > [\[Oil Forecast\]](#)

Edit Oil Forecast

Forecast Month: 2017-04

Facility View List:

Facility/Well Event ID	Facility/Well Name	Gross Volume Forecast			Status	Crown Forecast	Benefit Pgm	New Well	Calc Method	Forecast Non-Crown	Filter Reset
		Initial Forecast	Adjustment	Final							
<input type="text"/>	<input type="text"/>	7,217.0	0.0	7,217.0		1,238.7	<input type="text"/>	<input type="text"/>	<input type="text"/>	5,978.3	
+ .ABBT0000007	Oil & Gas Battery #7	83.5	0.0	<input type="text" value="83.5"/>		0.0	N	N	BATTERY	83.5	
+ .ABBT0000008	Oil & Gas Battery #8	7,133.5	0.0	<input type="text" value="7,133.5"/>		1,238.7	Y	N	BATTERY	5,894.8	

Details displayed include: The initial forecast volume and the calculated Crown and non crown forecast volumes.

Users can change the Final Forecast Volume as necessary

Oil Forecast Tool On line Functions (Cont'd)



[\[Monthly Reporting\]](#) > [\[Oil Forecast\]](#)

Edit Oil Forecast

Forecast Month: 2017-04

<u>Facility/Well Event ID</u>	<u>Facility/Well Name</u>	<u>Gross Volume Forecast</u>			<u>Status</u>	<u>Crown Forecast</u>	<u>Benefit Pgm</u>	<u>New Well</u>	<u>Calc Method</u>	<u>Forecast Non-Crown</u>	<u>Filter</u> <u>Reset</u>
		<u>Initial Forecast</u>	<u>Adjustment</u>	<u>Final</u>							
<input type="button" value="+"/> ABBT0000007	Oil & Gas Bty 7	83.5	0.0	83.5		0.0	N	N	BATTERY	83.5	
ABWI100100300101W400	Well 10-3	24.9	0.0	<input type="text" value="24.9"/>		0.0	N	N		24.9	
ABWI100110400101W400	Well 11-4	13.0	0.0	<input type="text" value="13.0"/>		0.0	N	N		13.0	
ABWI100050600101W400	Well 5-6	22.2	0.0	<input type="text" value="22.2"/>		0.0	N	N		22.2	
ABWI100050400101W400	Well 5-4	23.4	0.0	<input type="text" value="23.4"/>		0.0	N	N		23.4	

Clicking on the + sign beside a Battery ID will open up the data to display the well level details

Users can change the Final Forecast Volume at the Facility, View List (Group) or Well level. as necessary

Oil Forecast Tool On line Functions (Cont'd)



[\[Monthly Reporting\]](#) > [\[Oil Forecast\]](#)

Edit Oil Forecast

Forecast Month: 2017-04 |

Facility View List: ALL

Facility/Well Event ID	Facility/Well Name	Gross Volume Forecast			Status	Crown Forecast	Benefit Pgm	New Well	Calc Method	Forecast Non-Crown	Filter Reset
		Initial Forecast	Adjustment	Final							
<input type="text"/>	<input type="text"/>	7,217.0	0.0	7,217.0		1,238.7	<input type="text" value="v"/>	<input type="text" value="v"/>	<input type="text" value="v"/>	5,978.3	
+ ABBT0000007	Oil & Gas Bty 7	83.5	0.0	<input type="text" value="283.5"/>	<input type="button" value="Calculate"/>	0.0	N	N	BATTERY	83.5	
+ ABBT0000008	Oil & Gas Bty 8	7,133.5	0.0	<input type="text" value="7,133.5"/>		1,238.7	Y	N	BATTERY	5,894.8	

Once the final volume is updated the status is changed to Calculate.

Oil Forecast Tool On line Functions (Cont'd)



[\[Monthly Reporting\]](#) > [\[Oil Forecast\]](#)

Edit Oil Forecast

Forecast Month: 2017-04

Facility View List: ALL

Facility/Well Event ID	Facility/Well Name	Gross Volume Forecast			Status	Crown Forecast	Benefit Pgm	New Well	Calc Method	Forecast Non-Crown	Filter Reset
		Initial Forecast	Adjustment	Final							
		7,217.0	200.0	7,417.0		1,240.5				6,176.5	
<input type="checkbox"/> ABBT0000007	Oil & Gas Bty 7	83.5	200.0	<input type="text" value="83.5 x"/>	<i>Pending</i>	1.8	N	N	BATTERY	281.7	
<input type="checkbox"/> ABBT0000008	Oil & Gas Bty 8	7,133.5	0.0	<input type="text" value="7,133.5"/>		1,238.7	Y	N	BATTERY	5,894.8	

Clicking the Calculate button changes the volumes and the screen displays a *Pending* Status.

Oil Forecast Tool On line Functions (Cont'd)



Menu
 Inbox
 Help
 Contacts
 Logout
 AB BA: :
 Name:

Quicklist:

[\[Monthly Reporting\]](#) > [\[Oil Forecast\]](#)

Edit Oil Forecast

Forecast Month: 2017-04

Facility View List:

OFT099 Submission is successful.

<u>Facility/Well Event ID</u>	<u>Facility/Well Name</u>	Gross Volume Forecast			Status	<u>Crown Forecast</u>	<u>Benefit Pgm</u>	<u>New Well</u>	<u>Calc Method</u>	<u>Forecast Non-Crown</u>	<input type="button" value="Filter"/> <input type="button" value="Reset"/>
		<u>Initial Forecast</u>	<u>Adjustment</u>	<u>Final</u>							
<input type="text" value=""/>	<input type="text" value=""/>	7,217.0	200.0	7,417.0		1,240.5	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	6,176.5	
+ ABBT0000007	Oil & Gas Bty 7	83.5	200.0	<input type="text" value="283.5 x"/>		1.8	N	N	BATTERY	281.7	
+ ABBT0000008	Oil & Gas Bty 8	7,133.5	0.0	<input type="text" value="7,133.5"/>		1,238.7	Y	N	BATTERY	5,894.8	

The user must click Submit to enter the data. Petrinex will display the new calculated volumes. This data will now be available on the reports and query screen.

Oil Forecast Tool On line Functions (Cont'd)



     AB BA:
Menu Inbox Help Contacts Logout Name:

[\[Monthly Reporting\]](#) > [\[Oil Forecast\]](#)

Edit User Forecast Facility View List

Forecast Month: Facility View List:

Users may edit existing **Facility View Lists** or Create New ones

Oil Forecast Tool On line Functions (Cont'd)



[\[Monthly Reporting\]](#) > [\[Oil Forecast\]](#)

Edit User Forecast Facility View List

Forecast Month: New Facility View List Name:

Delete	Facility ID	Facility Name
--------	-------------	---------------

Clicking Add opens a new screen

Clicking Update Facilities opens the Facility List Builder

Oil Forecast Tool On line Functions (Cont'd)



Users select the facilities they would like to include in their list. By moving facilities from available to selected and back. Clicking OK updates the Facility View List

Facility List Builder

Prov AB ▾	Type BT ▾	Number <input type="text"/>	Production Month 2017-04		
Facility Name <input type="text"/>		Operator ID <input type="text"/>			
Location					
LSD	SEC	TWP	RGE	M	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	W	ALL ▾
					GO

Available Facilities

Selected Facilities

AB BT 1000006 Provost Bty 6
AB BT 1000007 Provost Bty 7



Query

OK **Cancel**

Oil Forecast Tool On line Functions (Cont'd)



Menu Inbox Help Contacts Logout AB BA: Name:

[\[Monthly Reporting\]](#) > [\[Oil Forecast\]](#)

Edit User Forecast Facility View List

Forecast Month: 2017-04 < > Refresh Facility View List: New Group Name Go Add Delete

OFT076 Facility View List [New Group Name] has been updated successfully.

Submit Update Facilities Query Cancel

Delete	Facility ID	Facility Name
<input type="checkbox"/>	AB BT 1000006	Provost Bty 6
<input type="checkbox"/>	AB BT 1000007	Provost Bty 7

Once a view list has been added it is available for all users at the BA.

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5b. How to Use the Oil Forecast Functions: Oil Forecast Tool Batch Submissions



Batch submissions for the Oil Forecast Tool functions can be submitted in csv and xml.

Instructions for creating and uploading the various files in csv can be found on the Initiatives page – APMC/Industry Conventional Oil Forecast Tool Project

<http://www.petrinex.ca/204.asp>

For documents related to the xml versions of these files please contact Sheryl Moody via email Sheryl.Moody@gov.ab.ca.

Oil Forecast Tool Batch Submissions (Cont'd)



The following Job Aids can be found on the initiatives page.

<http://www.petrinex.ca/204.asp>

Information regarding creating Groups of Batteries

www.petrinex.ca/PDFs/How_to_create_Groups_of_Batteries_OFT_final.pdf

Creating csv submission files & templates

http://www.petrinex.ca/PDFs/Oil_Forecast_Submissions_Spreadsheet_Upload_Specs_v1_1_final.pdf

[Oil Forecast Submissions Spreadsheet Templates](#) - updated Dec 20, 2016

Copy_of_OFT_csv_template_Faclist_and_update_OF_1_0

- There are two types of submissions for the Oil Forecast Tool:
 - **Facility View List submissions** (Update/Create and Delete Groups)
 - **Oil Forecast submissions** (Update/Change forecast volumes)
- The **Oil Forecast submissions** (csv uploads) data fields were created to **match the output (report)** and therefore **use the same template**.
- This means all the columns must be in the submission but depending on what is being submitted (i.e. Volume updates at the Facility View List (Group) level, at the Facility Level or the Well Event Level) some data fields should be left blank. If data is submitted in these fields then it will be ignored, however if the column is not included then the file will fail.

Oil Forecast Tool Batch Submissions (Cont'd)



Example csv file – Update/Create a Facility View List (Group) submission

Note: For an Update all data fields must be filled in.

	A	B	C	D	E	F	G	H
1	VERB	NOUN	REVISION	FORECASTMONTH	VIEW	PROVINCESTATE	TYPE	IDENTIFIER
2	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #1	AB	BT	0000001
3	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #1	AB	BT	0000002
4	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #1	AB	BT	0000003
5	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #4	AB	BT	0000004
6	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #5	AB	BT	0000005
7	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #5	AB	BT	0000006
8	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #5	AB	BT	0000007
9	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #5	AB	BT	0000008
10	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #5	AB	BT	0000009
11	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #5	AB	BT	0000010
12	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #5	AB	BT	0000011
13	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #5	AB	BT	0000012
14	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #5	AB	BT	0000013
15	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #5	AB	BT	0000014
16	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #5	AB	BT	0000015
17	UPDATE	OFFACILITYLIST	001	2017-04	Form A Delivery Battery #5	AB	BT	0000016

Oil Forecast Tool Batch Submissions (Cont'd)



Example csv file - Delete a Facility View List (Group)

Note: For a Deletion the Province, Type and Identifier are not required.

	A	B	C	D	E	F	G	H
1	VERB	NOUN	REVISION	FORECASTMONTH	VIEW	PROVINCESTATE	TYPE	IDENTIFIER
2	DELETE	OFFACILITYLIST	001	2017-06	Form A Delivery Battery #1			
3								
4								
5								
6								

Information and suggestions on how to create your Facility View Lists (Groups) Can be found on the OFT Project Initiatives page under Job Aids

<http://www.petrinex.ca/PDFs/How to create Groups of Batteries OFT final.pdf>

Oil Forecast Tool Batch Submissions (Cont'd)



Oil Forecast Submissions - csv file column descriptions

The next few pages describe each column in the csv file template for Oil forecast submissions. Since the input template is the same as the output/report not all fields need to be completed when submitting/updating data. The data required depends on what level of you are reporting at:

1. View List (group)
2. Facility or
3. Well Event Level

All Columns are required to be in the file however not all columns require data. Column A-E require data in all cases.

Spreadsheet Column	Data element	Example Field Content	Comments
A	VERB	UPDATE	UPDATE is the only valid verb
B	NOUN	OILFORECAST	OILFORECAST is the only valid noun
C	FORMAT VERSION	001	Current is 001
D	BA ID	ABCD	Must be the operator of the facilities being forecast
E	FORECAST MONTH	2017-05	

Oil Forecast Tool Batch Submissions (Cont'd)



Spreadsheet Column	Data element	Example Field Content	Comments
F	ASOFDATE		Data not required, but need to include the column - leave this blank
G	FACILITYVIEWLIST	Delivery Bty Group ABBT0000001	Data only required when the report type is VIEWLIST . Data is not required for report type FACILITY or WELL EVENT but need to include the column.
H	IINITIALGROSSFORECASTVL		Data not required, but need to include the column - leave this blank
I	GROSSFORECASTVL		This is the adjusted gross production volume for the Group of BT Facilities included in the VIEWLIST. Data only required when the report type is VIEWLIST . Data is not required for report type FACILITY or WELL EVENT but need to include the column.

Column G & I only require data if the submission is at the View List Level

Column F & H are left blank in all cases

Oil Forecast Tool Batch Submissions (Cont'd)



Column M, N & O only require data if the submission is at the Facility or Well Event Level

Column J, K, L & P are left blank in all cases.

Spreadsheet Column	Data element	Example Field Content	Comments
J	CROWNFORECASTVL		Data not required, but need to include the column - leave this blank
K	CROWNPERCENTAGEVL		Data not required, but need to include the column - leave
L	NONCROWNFORECASTVL		Data not required, but need to include the column - leave this blank.
M	FACILIYT PROVINCE/STATE	AB	Data only required when the report type is FACILITY . AB is the only valid Province. Data not required for report type VIEWLIST or WELLEVENT but need to include the column.
N	FACILITY TYPE	BT	BT is the only valid Type
O	FACILITY IDENTIFIER	0001001	Must be 7 digits
P	FACILITY NAME		Data not required, but need to include the column - leave this blank

Oil Forecast Tool Batch Submissions (Cont'd)



Column Q is always required and identifies the type of data being submitted. ViewList, Facility or WellEvent level.

Column S only requires data if the submission is at the Facility Level

Columns R, T & U are always blank

Spreadsheet Column	Data element	Example Field Content	Comments
Q	REPORT TYPE	VIEWLIST	VIEWLIST, FACILITY and WELLEVENT are the only 3 options
R	INITIAL GROSS FORECASTBT		Data not required, but need to include the column - leave this blank
S	FINAL GROSS FORECASTBT	200	This is the adjusted gross production volume for the BT. Can be left blank if the report type is VIEWLIST or WELLEVENT
T	CROWNFORECASTBT		Data not required, but need to include the column - leave this blank
U	CROWNPERCENTAGEBT		Data not required, but need to include the column - leave this blank

Oil Forecast Tool Batch Submissions (Cont'd)



Columns Y, Z & AA is only require data if the submission is at the Well Event Level

Columns M, N & O (the Facility ID info) is required for Well Event submissions

Columns V, W & X are always blank.

Spreadsheet Column	Data element	Example Field Content	Comments
V	BENEFITPGMBT		Data not required, but need to include the column - leave this blank
W	NONCROWNFORECASTBT		Data not required, but need to include the column - leave this blank
X	AMENDMENTNUMBER		Data not required, but need to include the column - leave this blank
Y	PROVINCESTATEWI	AB	Data only required if Report Type is WELLEVENT . AB is the only valid province. Data not required for Report Type VIEWLIST or FACILITY,
Z	TYPEWI	WI	Data is only required if Report Type is WELLEVENT Data not required for Report Type VIEWLIST or FACILITY,
AA	IDENTIFIERWI	100010200304W400	Data only required if Report Type is WELLEVENT . Data not required if Report Type is VIEWLIST or FACILITY,

Oil Forecast Tool Batch Submissions (Cont'd)



Column AD only requires data if the submission is at the Well Event Level

Columns AB, AC, AE & AF are always blank.

Spreadsheet Column	Data element	Example Field Content	Comments
AB	WELLEVENTNAME		Data not required, but need to include the column - leave this blank
AC	INITIALGROSSFORECASTWI		Data not required, but need to include the column - leave this blank
AD	GROSSFORECASTWI	25.5	This is the adjusted gross production volume for the Well. Data only required if Report Type is WELLEVENT . Data not required if Report Type is VIEWLIST or FACILITY , but need to include the column.
AE	CROWNFORECASTWI		Data not required, but need to include the column - leave this blank
AF	CROWNPERCENTAGEWI		Data not required, but need to include the column - leave this blank

Oil Forecast Tool Batch Submissions (Cont'd)



Columns AG, AH, AI, AJ & AK are always blank.

Spreadsheet Column	Data element	Example Field Content	Comments
AG	BENEFITPGMWI		Data not required, but need to include the column - leave this blank
AH	NONCROWNFORECASTWI		Data not required, but need to include the column - leave this blank
AI	DENSITYCODE		Data not required, but need to include the column - leave this blank
AJ	CROWN OIL INTEREST PERCENT		Data not required, but need to include the column - leave this blank
AK	ROYALTYATTRIBUTE		Data not required, but need to include the column - leave this blank

Oil Forecast Tool Batch Submissions (Cont'd)



Update Forecast – View List (Group) Level

Example of data in required fields all other columns must be included A – AK but they would be blank

	A	B	C	D	E
1	VERB	NOUN	REVISION	BAID	FORECASTMONTH
2	UPDATE	OILFORECAST	001	0001	2017-04
3					
4					
5					
6					

	G	I	Q
1	FACILITYVIEWLIST	GROSSFORECASTVL	REPORTTYPE
2	View List1	50000	VIEWLIST
3			
4			
5			
6			

Oil Forecast Tool Batch Submissions (Cont'd)



Update Forecast – Facility Level

Example of data in required fields all other columns must be included A – AK but they would be blank

	A	B	C	D	E
1	VERB	NOUN	REVISION	BAID	FORECASTMONTH
2	UPDATE	OILFORECAST	001	0001	2017-04
3					
4					
5					
6					

	M	N	O	Q	S
1	PROVINCESTATE	TYPE	IDENTIFIER	REPORTTYPE	GROSSFORECASTBT
2	AB	BT	0000002	FACILITY	500
3					
4					
5					
6					

Oil Forecast Tool Batch Submissions (Cont'd)



Update Forecast – Well Event Level

Example of data in required fields all other columns must be included A – AK but they would be blank

	A	B	C	D	E
1	VERB	NOUN	REVISION	BAID	FORECASTMONTH
2	UPDATE	OILFORECAST	001	0001	2017-04
3					
4					
5					
6					

	M	N	O	P	Q	Y	Z	AA	AD
1	PROVINCESTATE	TYPE	IDENTIFIER	FACILITYNAME	REPORTTYPE	PROVINCESTATEWI	TYPEWI	IDENTIFIERWI	GROSSFORECASTWI
2	AB	BT	0000003		WELLEVENT	AB	WI	10001020304005W400	100
3	AB	BT	0000003		WELLEVENT	AB	WI	10002020304005W400	150
4									
5									
6									

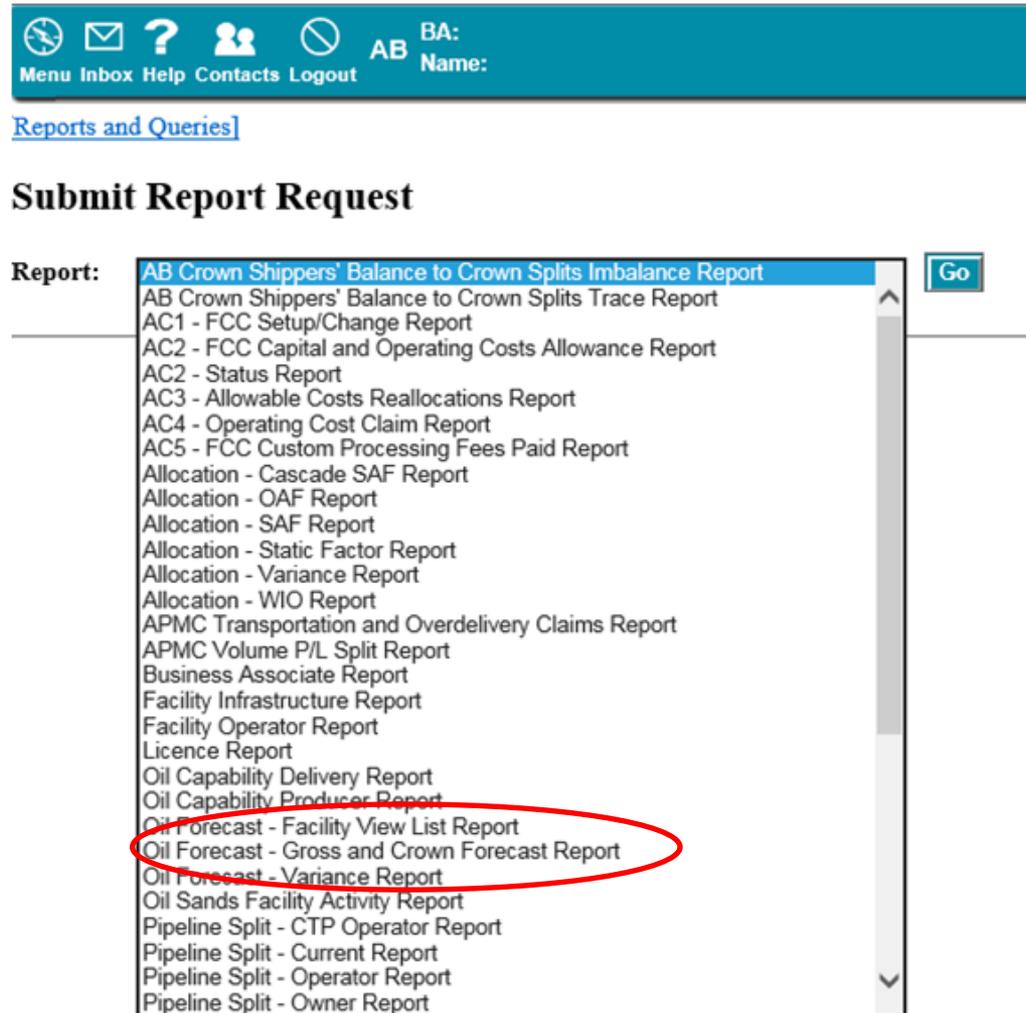
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8. Questions and Answers

6. What Reports are Available & When

The Oil Forecast Reports are available under Submit Report Request. There are 3 new reports available for Industry.

1. Oil Forecast Facility View List Report
2. Oil Forecast – Gross and Crown Forecast Report
3. Oil Forecast – Variance Report

Forecast reports are available in PDF, CSV and XML



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[Reports and Queries](#)

Submit Report Request

Report:

- AB Crown Shippers' Balance to Crown Splits Imbalance Report
- AB Crown Shippers' Balance to Crown Splits Trace Report
- AC1 - FCC Setup/Change Report
- AC2 - FCC Capital and Operating Costs Allowance Report
- AC2 - Status Report
- AC3 - Allowable Costs Reallocations Report
- AC4 - Operating Cost Claim Report
- AC5 - FCC Custom Processing Fees Paid Report
- Allocation - Cascade SAF Report
- Allocation - OAF Report
- Allocation - SAF Report
- Allocation - Static Factor Report
- Allocation - Variance Report
- Allocation - WIO Report
- APMC Transportation and Overdelivery Claims Report
- APMC Volume P/L Split Report
- Business Associate Report
- Facility Infrastructure Report
- Facility Operator Report
- Licence Report
- Oil Capability Delivery Report
- Oil Capability Producer Report
- Oil Forecast - Facility View List Report
- Oil Forecast - Gross and Crown Forecast Report
- Oil Forecast - Variance Report
- Oil Sands Facility Activity Report
- Pipeline Split - CTP Operator Report
- Pipeline Split - Current Report
- Pipeline Split - Operator Report
- Pipeline Split - Owner Report

Go

What Reports are Available & When (Cont'd)



Petrinex Oil Forecast Report Availability

Each month Petrinex will automatically create, around the 27th of each month, an initial **Oil Forecast - Gross and Crown Forecast Report** (amendment 0) for each producing operator of conventional oil batteries.

This forecast (amendment 0) will be for 2 months in advance of when it is generated. For example at the end of February 2017 the forecast for April 2017 will be created.

Each BA should review and make/submit any adjustments to the final gross forecast volumes in Petrinex and then request the Gross and Crown Forecast report with the adjusted Gross and recalculated Crown volumes. This will result in updated forecast volumes that should be used to improve the gross and crown forecasts used on Form A's.

It is recommended that the Facility View Lists (groups) be set up or modified as soon as possible each month to have them included on the initial Oil Forecast - Gross and Crown Forecast Report (amendment 0).

What Reports are Available & When (Cont'd)



Submit Report Request

Report:

The **Facility View List Report** has two report types available

View List – which details the View Lists that exist for the BA

Unassigned – details the batteries that are not assigned to a View List (Group)

Start Forecast Month :

End Forecast Month :

BA ID: All List ...

Report Type:

Facility View List: All List

Report Format: PDF XML CSV

Note: This report will be queued for processing. You will receive an e-mail notification when the report is ready.

What Reports are Available & When (Cont'd)



View List Report Example



PETRINEX
Oil Forecast - Facility View List Report
ABCD Oil & Gas Ltd

Operator: ABCD Oil & Gas Ltd ^{FD}
Forecast Month: 2017-04

View List Name	Facility ID	Facility Name
Area One	ABBT0005010	South Battery A
Area One	ABBT0005011	South Battery B
Area One	ABBT0005012	South Battery C
Area One	ABBT0005013	South_Battery_D

What Reports are Available & When (Cont'd)



PETRINEX
Oil Forecast - Facility View List Report
ABCD Oil & Gas Co.

Operator: ABCD Oil & Gas Co.
Forecast Month: 2017-04

View List Name	Facility ID	Facility Name
UNASSIGNED	ABBT0005015	North Bty A
UNASSIGNED	ABBT0005016	North Bty B
UNASSIGNED	ABBT0005016	North Bty C

Unassigned Report Example

What Reports are Available & When (Cont'd)



Submit Report Request

Report:

Forecast Month Start:

Forecast Month End:

BA ID: All List ...

Facility View List: All List

Report Type:

Facilities: All List

Wells: All List

Report Format: PDF XML CSV

Note: This report will be queued for processing. You will receive an e-mail notification when the report is ready.

The **Gross and Crown Forecast Report** is the main report used for the Petrinex Oil Forecast Tool. It can be organized by Facility View List, Facility Level and/or Well Event details. It is available in CSV, PDF & XML and can be run at anytime during the day.

What Reports are Available & When (Cont'd)



PETRINEX
Oil Forecast - Gross and Crown Forecast Report
 ABCD Oil & Gas Co.

Operator: ABCD Oil & Gas Co.
Forecast Month: 2017-04
Facility View List: Area One

Facility ID	Facility Name	Gross Forecast	Crown Forecast	Crown % of Gross	Benefit Program	Non-Crown Forecast	Amend#
ABBT0005010	Battery South A	17,786.2	2,413.0	13.57%	E	15,373.2	0
ABBT0005011	Batttery South B	33.7	0.0	0.00%	N	33.7	0
ABBT0005012	Battery South C	4,713.5	308.1	6.54%	Y	4,405.4	0
ABBT0005013	Battery South D	8.2	0.0	0.00%	N	8.2	0
	Total:	22,541.6	2721.1	12.07%		19820.5	

Oil Forecast Tool: Recap



- Oil Forecast “Tool” is a set of new Petrinex functionality allowing: Industry Forecasters (marketer/schedulers) to:
 - Create “**Facility View Lists**” (Groups of producing batteries) that align with their Form A submissions
 - Request the **initial Oil Forecast Gross and Crown Forecast Report**
 - Review the report and **modify the gross volumes**
 - at the Group, Battery or Well level;
 - Petrinex will recalculate Crown share at the Well level and roll it up to the Battery or Group level as appropriate.
 - Request an **updated Oil Forecast Gross and Crown Forecast Report**
 - Use the Gross and Crown Forecast report data to improve their existing forecast processes.
 - **Compare the forecasted Gross and Crown to actuals reported**
- All submissions can be performed “Online” or by “Batch” processes.***

Initiatives – APMC/Industry Conventional Oil Forecast Tool Project



PETRINEX
CANADA'S PETROLEUM INFORMATION NETWORK

<http://www.petrinex.ca/204.asp>

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Last Message Posted: 12/14/2016 9:53 AM

Last Review/Updated: January-03-17 10:05 AM

APMC/Industry Conventional Oil Forecast Tool Project

Documents

- [Industry Readiness Guide](#) - updated Dec 20, 2016
- Information Bulletin - [Status update and notice of implementation date change](#) - posted Oct 7, 2016

Job Aids

- [Instructions for Industry Interoperability Testing and Transmittal Form](#) - posted Jan 3, 2017
- [How to Create Groups of Batteries for Petrinex Oil Forecast Tool Functions](#) - updated Dec 20, 2016
- [Oil Forecast Submissions Spreadsheet Upload Specifications](#) - updated Dec 20, 2016
- [Oil Forecast Submissions Spreadsheet Templates](#) - updated Dec 20, 2016
- [How to Use the Conventional Oil Forecast Report](#) - updated Jan 29, 2016

Presentations

- [Conventional Oil Forecast Update Meeting - January 25, 2016](#)

Oil Forecast Tool training modules are being developed and will be available in the “Resource Centre” by end of February.

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7. APMC Perspectives



- The APMC sees poor forecasting of the Crown share of production as a serious issue.
- The APMC encourages industry to use the Oil Forecast tool to:
 - Reduce cost to the Crown and industry to manage incorrect royalty splits.
 - Benefit the Crown and industry by optimizing pipeline space.
 - Benefit Albertans by maximizing value of the royalty barrel.
- Currently the APMC does not apply penalties or cost recovery for incorrect forecast volumes however, this is an option.

8. Questions



Thank You!