

# Operator's Forecast Report

---

## Oil Sands Royalty Business Training

Alberta Energy

June 13, 2019

## **Disclaimer:**

*The information contained in this presentation is provided at the sole discretion of the Department of Energy (Department). The Department makes no warranties or representations regarding the information contained in the presentation, or any statements made during the course of the presentation. All information is provided for general information purposes only. You should not use or rely on this information for any other purpose. The information in the presentation and any statements made during the course of the presentation should not be relied upon as a representation of the Department's official position in law or policy. That material is publicly available through the Department's website at [www.energy.alberta.ca](http://www.energy.alberta.ca). Reproduction of the presentation in any form is prohibited.*

# Important Information

---

- Energy content has been migrated from energy.Alberta to Alberta.ca
- Links to forms, monthly calculation reports etc. have changed
- Oil Sands forms are now available at:
  - <https://www.alberta.ca/oil-sands-forms.aspx>
- Royalty Rates are available at the following link:
  - <https://open.alberta.ca/publications/oil-sands-monthly-royalty-rates-information>
- BVM Components are available at:
  - <https://open.alberta.ca/publications/bvm-components>
  - <https://open.alberta.ca/opendata/bitumen-valuation-methodology-bvm-model-calculator>
- LTBR and Return Allowance rates are available at:
  - <https://open.alberta.ca/publications/ltr-and-return-allowance-rate>

# Background

---

- Submission required once per calendar year under Section 37 of the Oil Sands Royalty Regulation, 2009.
- Submission deadline is November 30th of the calendar year, or the first subsequent business day if November 30th falls on a weekend.
- Operator of an Oil Sands Project shall submit the operator's forecast form with information regarding the project for the current calendar year and subsequent 14 calendar years (IB 2016-06).
- Statement of Approval is NOT mandatory.
- Deadlines for submission will also be listed in the monthly reporting calendar.  
<https://www.energy.alberta.ca/OS/Documents/2019ReportingCalendar.pdf>
- The latest report template can be downloaded at:  
<https://www.alberta.ca/oil-sands-forms.aspx#toc-1>

# Latest Changes to the Form IB 2017-08

---

- Starting November 30th, 2017, in addition to the data that was previously required in an operator's forecast, operators must submit the following information for each Oil Sands Royalty (OSR) Project:
  - Project Technology
  - Oil Sands Project Area / Region
  - Steam Injection Volume
  - Steam Name Plate Capacity
  - Bitumen Name Plate Capacity
  - Non-Condensable Gas Injected Volume
  - Solvent Injected Volume
  - GHG Emission Intensity
  - GHG Emission Compliance Costs
  - Abandonment Wells Capital
  - Abandonment Facilities Capital
  - Reclamation Capital
  - Number of New Production Wells
  - Number of Abandoned Production Wells
  - Number of New Injection Wells
  - Number of Abandoned Injection Wells
  - Wells Strategic Capital
  - Facilities Strategic Capital
  - Wells Sustaining Capital
  - Facilities Sustaining Capital
  - Non-Gas Variable OPEX
  - Fixed Operating OPEX

# Fine for Late Submission

---

- The fine for late submission of the operator's forecast is \$5,000 per month, per form.
- For example, if an operator has two OSR projects and submits both operator's forecasts on December 1st, then the fine will be \$10,000 (1 month x 2 forms).
- Another example: if an operator has four OSR projects and submits all four operator's forecast forms on January 2nd, then the total fine will be \$40,000 (2 months x 4 forms).
- This is pursuant to Oil Sands Royalty Regulation, 2009 section 44(1).

# Report Structure

---

- The report workbook has 12 tabs:
  - Instructions
  - Forecast Report Form
  - Input Checks
  - Volumes
  - Non-Energy Operating Costs
  - Capital Costs
  - Wells
  - Superscript Notes
  - Category Requirements
  - Validation & Checks
  - History of Revisions
  - Admin
- Instructions
  - A list of instructions for filling and submitting the form.
  - DOE contact information.
- Forecast Report Form
  - Input cells to capture project level information for some parameters such as Net cumulative balance, bitumen price, diluent volume etc.
  - Linked cells to display aggregated data from phase-wise data tabs.
  - Sheets that contain phase specific information and feed into the Forecast Report Form tab:
    - Volumes
    - Capital Costs
    - Non-Energy Operating Costs
    - Wells

# Report Structure (Con'd)

---

- **Superscript Notes**
  - Explanatory notes for each category in Forecast Report Form.
- **Category Requirements**
  - List required fields for different technologies.
- **Validation & Checks**
  - Specifies data value range and decimal places.
- **History of Revisions**
  - List of historical revisions to the report form.



# Forecast Report Form

Operator's Forecast Report  
Pursuant to Section 37 of the Oil Sands Royalty Regulation, 2009

Form ID: OSRF-forecast  
Version #: 1.02

For Submission to: 

Project Name:	AAA Oil Sands Thermal Project
OSR Project Number:	OSR123
Project Operator Name:	ABC
Project Operator ID:	1234
Oil Sands Project Area:	Alhambra
Project Technology:	Other
Specify "Other" Project Technology:	
Data in Real Dollars as of YYYY:	2017

Notes:  
1. For superscript explanations and definitions please click on the underlined term and follow the link to the "Superscript Notes" worksheet.  
2. Please include additional notes in the "Additional Notes" section at the bottom if further clarifications or explanations are needed.

Strategic Policy Division

Units	Forecast Year	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031						
<b>Net Cumulative Balance</b>		\$ 50,000,000.00																				
<b>Production Volumes</b>	Cleaned Crude Bitumen Volume @ RCP	Density (kg/m <sup>3</sup> )	Sulphur (%)	TAN (mg/kg DW)	m <sup>3</sup> /year																	
		1,100.0	7.00%	4.0	5,443,742.3	6,123,769.3	6,429,329.2	6,360,973.5	7,173,115.9	8,097,589.6	7,884,441.6	7,392,544.5	7,022,787.7	8,030,481.9	8,030,481.9	8,637,204.4	8,630,481.9	8,630,481.9	8,630,481.9			
<b>Steam Injection Volumes</b>		m <sup>3</sup> /year																				
		13,609,355.7	13,881,542.8	13,881,542.8	14,646,457.6	14,868,203.3	14,242,163.4	14,244,727.3	14,498,993.1	14,509,641.3	14,099,771.5	14,102,280.0	14,364,993.1	14,364,544.9	13,990,773.8	13,990,227.2						
<b>Bitumen Price</b>	Cleaned Crude Bitumen Price @ RCP	\$/m <sup>3</sup>																				
		125.00	128.15	131.00	134.07	137.80	141.40	144.90	148.50	152.30	156.10	160.07	164.07	168.11	172.31	176.62						
<b>Diluent</b>	Diluent Volume Used @ RCP	Type of Diluent	m <sup>3</sup> /year																			
		Solvent	2,501,433.3	2,449,483.7	2,571,791.3	2,544,589.0	2,369,246.3	3,205,028.8	3,103,776.6	2,897,918.6	2,909,115.1	3,452,184.7	3,452,184.7	3,452,184.7	3,452,184.7	3,452,184.7	3,452,184.7	3,452,184.7	3,452,184.7	3,452,184.7	3,452,184.7	
<b>Diluent Price</b>	Diluent Price	Pricing Location	\$/m <sup>3</sup>																			
		Hardisty	807.00	799.25	795.00	798.00	802.00	807.00	811.00	815.00	819.00	823.00	827.00	831.00	835.00	839.00	843.00	847.00	851.00	855.00	859.00	863.00
<b>Other Product Revenues</b>	Specify the Products	\$																				
	None	0.00																				
<b>Total Natural Gas Volume Used for Bitumen Production</b>	Solution Gas Volume Used	G/year																				
		43,993,204.2	51,854,861.6	51,413,805.4	48,802,458.1	53,523,963.4	54,096,967.6	54,095,354.5	54,095,354.5	54,096,007.3	54,248,665.7	55,124,647.7	54,819,780.5	55,964,371.5	55,368,268.1	55,079,473.4	55,100,527.2	55,100,527.2	55,100,527.2	55,100,527.2	55,100,527.2	
<b>Natural Gas Price</b>		\$/GJ																				
		2.90	2.94	2.98	2.12	2.16	2.21	2.25	2.30	2.34	2.39	2.44	2.48	2.53	2.58	2.63	2.68	2.73	2.78	2.83	2.88	
<b>Allowed Costs</b>	Non-Energy Operating Costs (Excluding natural gas, diluent, and greenhouse gas emission compliance costs)	\$																				
	Non-Cap Variable Oper	363,025,227.54	383,025,227.54	380,965,662.05	523,219,678.56	572,684,174.73	573,243,427.00	582,351,940.97	577,613,860.47	584,447,227.30	600,591,770.30	602,387,272.80	603,504,580.60	583,099,328.15	596,198,532.74	598,524,284.72						
	Fixed Oper	72,601,045.51	72,601,045.51	76,199,137.01	104,643,925.78	114,538,834.95	114,648,695.40	116,470,388.19	115,522,796.05	116,889,446.28	120,100,542.07	120,477,454.50	120,100,812.14	118,618,265.83	119,237,910.75	119,706,692.54						
	Total	435,626,273.05	455,626,273.05	457,164,802.06	627,863,604.34	687,223,009.68	689,862,112.40	698,822,329.17	693,136,656.52	701,336,673.58	720,692,312.37	723,864,727.30	723,605,392.74	701,717,593.98	717,436,423.49	718,231,077.26						
<b>Capital Costs</b>	Strategic Capital	\$																				
	Wells	25,071,307.59	16,548,991.42	18,226,869.62	15,422,564.58	15,422,564.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Facilities	126,596,537.93	82,742,807.11	91,179,268.11	77,112,822.92	77,112,822.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total	151,667,845.51	99,291,798.53	109,406,137.73	92,535,387.50	92,535,387.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Sustaining Capital</b>	Wells	\$																				
	Facilities	238,427,584.07	534,625,770.30	471,284,248.34	632,471,048.73	269,974,438.07	362,567,192.68	385,295,965.64	438,888,373.83	518,476,102.71	449,272,718.71	458,847,922.74	462,625,155.00	473,034,118.88	460,539,973.53	463,956,789.88						
	Total	238,427,584.07	534,625,770.30	471,284,248.34	632,471,048.73	269,974,438.07	362,567,192.68	385,295,965.64	438,888,373.83	518,476,102.71	449,272,718.71	458,847,922.74	462,625,155.00	473,034,118.88	460,539,973.53	463,956,789.88						
<b>Abandonments and Reclamation Capital</b>	Abandonment Wells	\$																				
	Abandonment Facilities	6,570,000.00	6,734,250.00	6,902,600.25	7,075,171.41	7,252,050.69	7,433,351.96	7,619,185.79	7,809,665.40	8,004,907.04	8,205,028.71	8,410,155.46	8,620,409.34	8,836,919.09	9,056,817.56	9,283,238.00						
	Reclamation Capital	3,942,000.00	4,069,500.00	4,161,500.75	4,245,102.64	4,320,230.47	4,400,511.18	4,471,671.45	4,546,759.23	4,624,384.22	4,704,003.37	4,785,125.00	4,868,246.50	4,952,871.83	5,039,520.54	5,128,992.80						
	Total	10,512,000.00	10,803,750.00	11,064,101.00	11,310,274.05	11,572,281.16	11,834,863.14	12,101,430.64	12,376,414.63	12,659,291.26	12,949,031.67	13,245,275.46	13,553,651.54	13,879,390.92	14,221,338.10	14,582,230.80						
<b>Greenhouse Gas Emission Compliance Costs</b> (debit as positive and credit as negative)		\$																				
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Wells</b>	Number of New Production Wells	#																				
	Number of Abandoned Production Wells	0	0	5	1	3	2	3	2	1	0	3	2	1	1	0	0	0	0	0	0	
	Number of New Injection Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Number of Abandoned Injection Wells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>GHG Emission Intensity</b>	Project GHG Emission Intensity per m <sup>3</sup>	tonnes/m <sup>3</sup>																				
		0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	0.159980	
<b>Other Net Proceeds</b>		\$																				
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Steam Capacity</b>	Total Project Approved for Bitumen	m <sup>3</sup> /day																				
	Total Project Approved for Steam	14,400,000.0																				
<b>Non-Condensable Gas Injection</b>		m <sup>3</sup> /year																				
		680,487.8	694,077.1	694,077.1	732,322.5	732,810.2	712,169.7	712,228.4	724,999.7	725,462.1	704,988.6	705,114.0	717,749.7	718,222.2	697,558.7	698,023.9						
<b>Solvent Injection</b>		m <sup>3</sup> /year																				
		340,233.1	347,038.6	347,038.6	366,161.4	366,455.1	356,054.6	356,118.2	362,499.6	362,741.0	352,494.3	352,657.0	356,874.8	359,113.6	348,969.3	349,031.4						
<b>Actual vs Forecast of Project Payoff Date</b>																						
<b>Main Contact</b>	Name:																					
	Position:																					
	Phone Number:																					
	Email Address:																					
	Date:																					
<b>Alternate Contact</b>	Name:																					
	Position:																					
	Phone Number:																					
	Email Address:																					
	Date:																					
<b>Additional Notes</b>																						



# Forecast Report Form: Contents

---

- The form itself has four sections
- Project Information
  - General Information regarding project and operator.
  - Technology drop down list: required fields change accordingly.
- Forecast Inputs
  - Operator's forecast for production volumes, prices, crude quality, allowed costs etc.
  - Some information is linked from sheets with phase specific information.
- Contact Information and Additional Notes
  - Contact information of operator.
  - If needed, provide further clarification or explanation.
- Input Checks
  - Auto-filled cells and charts for operator to verify key inputs.

# Filling the Form

---

- Please ensure that there is no space between OSR and the project number.
- Cells shaded in grey must be completed. The mandatory fields are subject to the project technology selected on the "Forecast Report Form" worksheet. Non-shaded cells are linked or computed values from other cells or worksheets; cells shaded in black do not apply to the project.
- Please start with filling in the grey shaded cells in the "Forecast Report Form" worksheet and then moving on to fill in grey shaded cells in the following four worksheets: "Volumes", "Non-Energy Operating Costs", "Capital Costs", and "Wells"; these worksheets contain phase specific information and will be summed up in the "Forecast Report Form" worksheet.
- Make sure to use real dollar as of the current production year, i.e. use 2019 real dollar if the current production year is 2019.

# Filling the Form: Forecast Inputs

---

- Input forecasts figures in grey cells for the current calendar year and subsequent 14 calendar years, i.e.

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

- Unit for crude volume is in m<sup>3</sup> (cubic meters) instead of barrels.
- Inputs for Net Cumulative Balance, Other Product Revenues, Natural Gas Volumes, Allowed Costs and Other Net Proceeds are no longer in thousands.
- For GHG intensity Tonne/m<sup>3</sup> Bitumen, Greenhouse Gas Emission Compliance costs: 2017 SEGR, 2018+ per OBA guidelines (debit as positive & credit as negative).
- Operator should be able to distinguish the differences between Strategic Capital and Sustaining Capital. For further clarifications, please refer to the Superscript Notes and Royalty Regulations and Guidelines.
- Each category's definition is hyperlinked to the Superscript Notes tab.

# Filling the Form: Phase Information

Cleaned Crude Bitumen Volume @ RCP (m <sup>3</sup> /year)																				
Project Name	OSR Project Number	Project Operator ID	Phases	Name Plate Capacity Approved for Bitumen	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
Phases Already Producing	AAA Oil Sands Thermal Project	OSR123	A535	A - C	5,122,767.31	5,122,767.31	5,122,767.31	4,935,545.23	4,935,545.23	6,169,431.71	6,169,431.71	4,931,514.72	4,595,015.01	6,169,431.71	6,169,431.71	6,169,431.71	6,169,431.71	6,169,431.71	6,169,431.71	6,169,431.71
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	D	300,874.97	1,000,941.98	1,308,560.91	1,230,515.08	1,233,896.35	1,230,515.08	1,230,515.08	1,230,515.08	1,233,896.35	1,230,515.08	1,230,515.08	1,230,515.08	1,233,896.35	1,230,515.08	1,230,515.08	1,230,515.08
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	E	-	-	-	194,913.93	1,003,694.29	697,652.84	484,454.93	1,230,515.08	1,233,896.35	1,230,515.08	1,230,515.08	1,230,515.08	1,233,896.35	1,230,515.08	1,230,515.08	1,230,515.08
<b>Total</b>					5,443,742.28	6,123,709.29	6,429,328.22	6,360,873.90	7,173,115.87	8,067,599.64	7,884,441.60	7,392,544.88	7,022,787.71	8,630,461.87	8,630,461.87	8,630,461.87	8,630,461.87	8,630,461.87	8,630,461.87	8,630,461.87

Steam Injection Volume (m <sup>3</sup> /year)																				
Project Name	OSR Project Number	Project Operator ID	Phases	Name Plate Capacity Approved for Steam	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
Phases Already Producing	AAA Oil Sands Thermal Project	OSR123	A535	A - C	12,806,918.26	13,063,056.63	13,063,056.63	13,324,317.76	13,324,317.76	12,932,426.06	12,932,426.06	13,191,074.58	13,191,074.58	12,803,101.80	12,803,101.80	13,059,163.84	13,059,163.84	13,059,163.84	12,675,070.78	12,675,070.78
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	D	802,437.43	916,486.17	916,486.17	834,855.93	834,855.93	910,301.31	910,301.31	626,507.34	626,507.34	802,136.30	802,136.30	916,242.26	916,242.26	916,242.26	794,176.32	794,176.32
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	E	-	-	-	497,293.97	497,029.65	499,468.07	501,599.35	492,411.13	492,059.35	494,471.41	496,979.35	497,687.02	497,138.73	499,526.70	492,010.15	492,010.15
<b>Total</b>					13,609,355.69	13,981,542.80	13,981,542.80	14,646,457.63	14,656,203.31	14,242,193.44	14,244,727.32	14,499,993.05	14,599,641.26	14,699,771.51	14,102,286.05	14,354,993.12	14,354,993.12	14,354,993.12	13,958,773.80	13,958,773.80

Total Natural Gas Volume Used for Bitumen Production (GJ/year)																				
Project Name	OSR Project Number	Project Operator ID	Phases	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031		
Phases Already Producing	AAA Oil Sands Thermal Project	OSR123	A535	A - C	42,458,897.01	43,443,219.35	40,942,007.64	37,843,210.12	36,627,321.05	41,235,161.05	42,303,351.20	36,047,593.06	35,186,006.78	37,845,650.35	36,359,750.30	36,463,802.46	36,889,734.81	36,571,016.03	36,641,544.37	
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	D	1,534,307.16	6,511,582.21	10,470,997.73	9,460,802.35	9,206,955.26	8,247,032.35	8,466,670.52	9,019,264.37	9,531,370.20	9,003,766.13	9,164,808.90	9,236,979.98	9,142,846.67	9,189,210.42	9,190,678.79	
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	E	-	-	1,498,445.54	7,489,187.12	4,609,774.21	3,331,332.78	9,019,149.62	9,531,308.68	9,275,229.25	9,275,229.25	9,380,569.00	9,303,682.52	9,313,169.94	9,325,812.84		
<b>Total</b>					43,993,204.18	51,954,801.56	51,413,005.37	48,802,458.01	53,523,963.43	54,000,967.61	54,095,354.50	54,086,007.26	54,248,685.66	56,124,647.73	54,819,780.45	55,064,371.51	55,336,266.80	55,073,473.39	55,158,037.00	

Non-Condensable Gas Injection (m3/year)																				
Project Name	OSR Project Number	Project Operator ID	Phases	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031		
Phases Already Producing	AAA Oil Sands Thermal Project	OSR123	A535	A - C	690,346.91	653,152.83	653,152.83	669,315.89	696,216.90	646,621.30	646,621.30	669,553.71	669,553.71	646,155.09	646,155.09	652,958.16	652,958.16	653,763.54	653,763.54	
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	D	440,121.87	40,924.31	40,924.31	47,742.29	47,742.29	40,515.07	41,325.37	41,325.37	40,109.91	40,109.91	40,912.11	39,768.82	39,768.82	39,768.82	39,768.82	
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	E	-	-	24,364.20	24,951.48	24,973.30	25,100.00	24,120.56	24,802.97	24,723.57	24,840.00	23,879.35	24,366.94	24,476.53	24,600.51		
<b>Total</b>					690,468.78	694,077.14	694,077.14	732,322.68	732,816.17	712,109.67	712,236.37	724,999.65	725,482.06	704,988.58	705,114.00	717,749.66	718,227.24	697,938.69	698,062.86	

Solvent Injection (m3/year)																				
Project Name	OSR Project Number	Project Operator ID	Phases	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031		
Phases Already Producing	AAA Oil Sands Thermal Project	OSR123	A535	A - C	303,172.98	326,576.42	326,576.42	333,917.84	333,107.84	323,310.65	323,310.65	339,776.85	339,776.85	320,077.55	320,077.55	336,479.10	336,479.10	316,876.77	316,876.77	
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	D	20,060.94	20,462.15	20,462.15	20,971.87	20,971.87	20,257.53	20,257.53	20,932.69	20,932.69	20,094.96	20,094.96	20,456.05	20,456.05	19,854.41	19,854.41	
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	E	-	-	12,182.10	12,425.74	12,486.65	12,550.00	12,000.36	12,301.48	12,361.79	12,424.50	11,939.66	12,178.47	12,238.17	12,300.25		
<b>Total</b>					340,233.89	347,038.57	347,038.57	366,161.44	366,405.08	356,054.84	356,118.16	362,499.63	362,741.63	352,494.29	352,557.00	358,874.83	359,113.62	348,969.34	349,031.43	

# Filling the Form: Phase Information

---

- Phase names are only needed to fill in the Volumes tab and then they are automatically carried over to other tables/tabs.
- New Volumes: Steam, Non-Condensable Gas & Solvent are added
- All Volumes now exist on a single tab
  - Name plate Capacity of Steam and Bitumen
- Non Energy Operating Costs are separated into:
  - Non-Gas Variable OPEX
  - Fixed OPEX
- Strategic/Sustaining Capital Costs are now further divided:
  - Strategic Capital Wells, Strategic Capital Facilities
  - Sustaining Capital Wells, Sustaining Capital Facilities
  - A & R Capital Abandonment Wells, A & R Capital Abandonment Facilities, A&R Reclamation Capital
- New Wells tab are added
  - New Production Wells / Abandoned Production Wells
  - New Injection Wells / Abandoned Injection Wells

# Filling the Form: Contacts and Notes

---

- Operator shall list two contacts in case DoE needs further clarifications on the submitted report.
- Use Additional Notes section if further clarifications or explanations are needed.

## Main Contact

Name:	John Smith
Position:	Business Analyst
Phone Number:	780- 555-1234
E-mail Address:	john.smith@aaaoilcompany.com
Date:	2017-10-11

## Alternate Contact

Name:	Jim Jones
Position:	Manager
Phone Number:	403 555 1235
E-mail Address:	jim.jones@aaaoilcompany.com
Date:	2017-10-11

# Filling the Form: Non-Required Cells

- Cells are blacked out when not required.

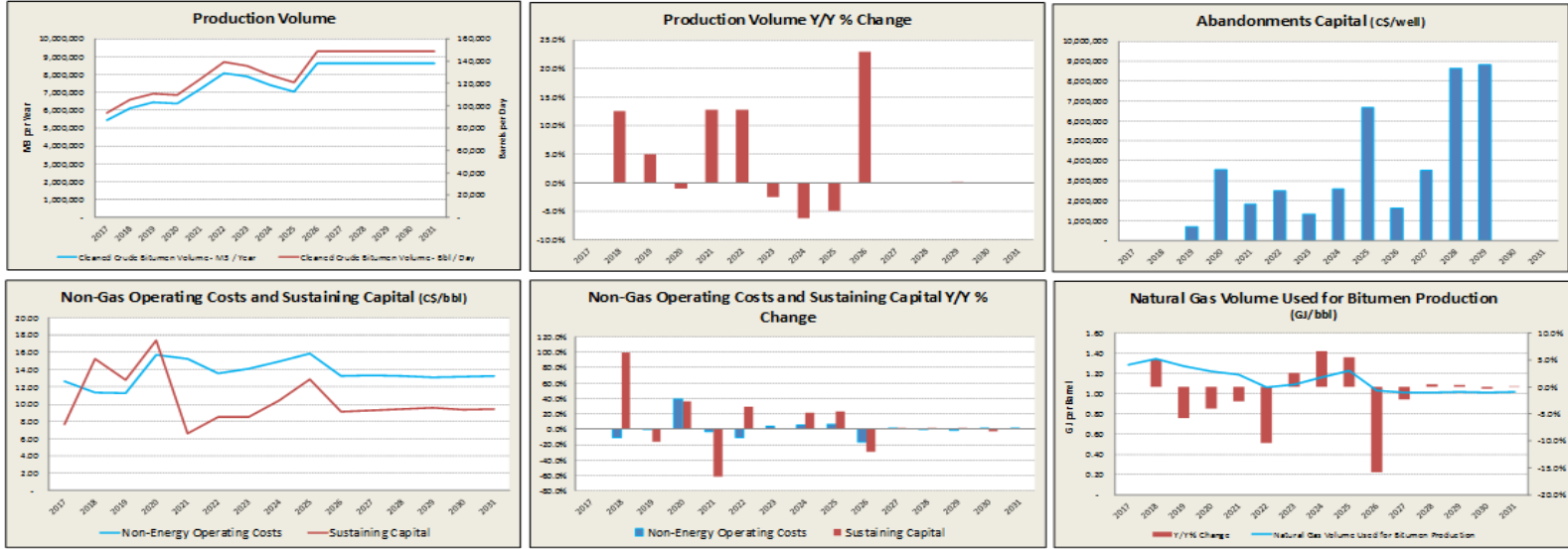
Cleaned Crude Bitumen Volume @ RCP (m <sup>3</sup> /year)																				
Project Name	OSR Project Number	Project Operator	Placer	Home Field Capacity Increased for OS	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
Placer Already Producing <sup>2</sup>	S&G Project	OSR699	Tect	1.00	7,000,000.00	10,000,000.0	15,000,000.0	10,000,000.0	15,000,000.0	13,000,000.0	14,000,000.0	5,000,000.0	12,000,000.0	11,000,000.0	5,000,000.0	5,000,000.0	7,000,000.0	13,000,000.0	10,000,000.0	11,000,000.0
Placer not Producing Tot																				
				Total	7,000,000.00	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000

Steam Injection Volume (m <sup>3</sup> /year)																				
Project Name	OSR Project Number	Project Operator	Placer	Home Field Capacity Increased for Steam	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
Placer Already Producing <sup>2</sup>				32,000,000.00	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	
Placer not Producing Tot																				
				Total	32,000,000.00	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000



# Filling the Form: Verifying Key Inputs

## Key Metrics Input Checks - Graphs



## Key Metrics Input Checks - Data Value

### Production Volumes Inputs Check<sup>22</sup>

Cleaned Crude Bitumen Volume - M3 / Year  
Cleaned Crude Bitumen Volume - Bbl / Day

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
M <sup>3</sup> / Year	5,443,742	6,123,700	6,420,328	6,360,974	7,173,116	8,087,600	7,884,442	7,392,545	7,022,788	8,630,462	8,630,462	8,630,462	8,637,204	8,630,462	8,630,462
Bbl / Day	93,846	105,568	110,837	109,659	123,659	139,424	135,922	127,442	121,068	148,783	148,783	148,783	148,899	148,783	148,783
YY% Change	0.0%	12.5%	5.0%	-1.1%	12.8%	12.7%	-2.5%	-6.2%	-5.0%	22.9%	0.0%	0.0%	0.1%	-0.1%	0.0%

### Costs Inputs Check<sup>23</sup>

Non-Energy Operating Costs

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
\$ / Bbl	12.67	11.30	11.30	15.69	15.23	13.52	14.09	14.90	15.87	13.27	13.31	13.27	13.10	13.17	13.23
YY% Change	0.0%	-10.8%	0.0%	38.8%	-2.9%	-11.2%	4.2%	5.8%	6.5%	-16.4%	0.3%	-0.3%	-1.3%	0.6%	0.4%

Capital Costs:  
Sustaining Capital

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
\$ / Bbl	7.66	15.27	12.81	17.38	6.58	8.49	8.54	10.40	12.85	9.10	9.25	9.43	9.55	9.34	9.40
YY% Change	0.0%	99.4%	-16.1%	35.6%	-62.2%	29.0%	0.7%	21.8%	23.6%	-29.2%	1.7%	1.9%	1.3%	-2.3%	0.6%

Abandonments Capital - Wells

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
\$ / Well	-	-	690,261	3,537,586	1,813,013	2,477,784	1,313,653	2,603,222	6,670,756	1,641,006	3,504,231	8,620,409	8,835,920	-	-
YY% Change	0.0%	-	-	412.5%	-48.8%	36.7%	-47.0%	98.2%	156.3%	-75.4%	113.5%	146.0%	2.5%	-	-

### Natural Gas Volume Inputs Check<sup>24</sup>

Natural Gas Volume Used for Bitumen Production

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
GJ / Bbl	1.28	1.35	1.27	1.22	1.19	1.06	1.09	1.16	1.23	1.03	1.01	1.01	1.02	1.01	1.02
YY% Change	0.0%	5.0%	-5.7%	-4.1%	-2.7%	-10.4%	2.6%	6.6%	5.6%	-15.8%	-2.3%	0.4%	0.4%	-0.4%	0.2%

# Form Completed: Now What?

---

- Operator has to submit the report workbook via ETS (Electronic Transfer System). Access to ETS can be obtained by following the process outlined in Alberta. Energy's Website:  
<https://training.energy.gov.ab.ca/Pages/Accounts%20In%20ETS.aspx>
  - The client prepares a letter on corporate letterhead, if appropriate, signed by an authorized person, identifying the ETS Administrator and/or optional Backup Administrator.
  - The client completes the ETS Set-up Form.
- If the submission is rejected, please refer to the turnaround report for reasons and also check the Category Requirements and Validation & Checks tabs to identify the errors.
- Alberta Department of Energy may request the operator to give a presentation, in the following year, on the submitted forecasts.

# Contact Information

---

Direct any inquiries on operators forecast to:

Roc Xiang

Manager, Oil Sands and Downstream Economics

Ph: (780) 427-0628

E-mail: [roc.xiang@gov.ab.ca](mailto:roc.xiang@gov.ab.ca)

# Questions?

---

