Operator’s Forecast Report

Oil Sands Royalty Business Training

Alberta Energy

June 16, 2022

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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

- Bitumen Valuation Methodology (BVM) Components are available at:
  - https://open.alberta.ca/publications/bvm-components
  - https://open.alberta.ca/opendata/bitumen-valuation-methodology-bvm-model-calculator

- Long Term Bond Rate (LTBR) and Return Allowance rates are available at:
  - https://open.alberta.ca/publications/ltbr-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.
  - For 2022, the submission deadline will be November 30th 2022.
- 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.alberta.ca/assets/documents/energy-oil-sands-reporting-calendar.pdf
- The latest report template can be downloaded at: https://www.alberta.ca/oil-sands-forms.aspx

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 and the due date was November 30th, 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: OSRForecast
Version #: 1.02
For Submission to: Alberta Energy
Strategic Policy Division

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.

Project Name:	AAA Oil Sands Thermal Project
OSR Project Number:	OSR123
Project Operator Name:	XYZ
Project Operator ID:	1334
Oil Sands Project Area	Athabasca
Project Technology[4]	Other
Specify "Other" Project Technology	

Data in Real Dollars as of YYYY:	2017

					Units[1]	Current Year[2] 2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Net Cumulative Balance[3]					$	50,000,000,000.00														
Production Volumes[4]	Cleaned Crude Bitumen Volume @ RCP	Density (kg/m³) 1,100.0	Sulphur (%) 7.00%	TAN (mg KOH/g) 4.20	m³/year	5,443,742.3	6,123,709.3	6,429,328.2	6,360,973.9	7,173,115.9	8,087,599.6	7,884,441.6	7,392,544.9	7,022,787.7	8,630,461.9	8,630,461.9	8,630,461.9	8,637,204.4	8,630,461.9	8,630,461.9
Steam Injection Volume[5]					m³/year	13,609,355.7	13,881,542.8	13,881,542.8	14,646,457.6	14,656,203.3	14,242,193.4	14,244,727.3	14,499,993.1	14,506,641.3	14,099,771.5	14,102,280.0	14,354,993.1	14,364,544.9	13,968,773.8	13,961,257.2
Bitumen Price[6]	Cleaned Crude Bitumen Price @ RCP				$/m³	125.00	128.13	131.00	134.61	137.96	141.43	144.96	148.59	152.30	156.11	160.01	164.01	168.11	172.31	176.62
Diluent[7]	Diluent Volume Used @ RCP	Type of Diluent: Solvent			m³/year	2,501,433.8	2,449,483.7	2,571,731.3	2,944,389.6	2,869,246.3	3,239,039.9	3,153,776.6	2,957,818.0	2,809,115.1	3,452,184.7	3,452,184.7	3,452,184.7	3,454,881.8	3,452,184.7	3,452,184.7
	Diluent Price	Pricing Location: Hardisty			$/m³	187.50	191.25	195.08	198.98	202.96	207.02	211.16	215.38	219.69	224.08	228.56	233.13	237.80	242.55	247.40
Other Product Revenues[8]		Specify the Products: None			$	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 Natural Gas Volume Used for Bitumen Production[9]					GJ/year	43,993,204.2	51,954,801.6	51,413,605.4	48,802,458.0	53,523,963.4	54,090,967.6	54,095,354.5	54,086,007.3	54,248,685.7	56,124,647.7	54,819,780.5	55,064,371.5	55,336,266.8	55,073,473.4	55,158,037.0
Solution Gas Volume Used[10]					GJ/year	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas Price[11]					$/GJ	2.00	2.04	2.08	2.12	2.16	2.21	2.25	2.30	2.34	2.39	2.44	2.49	2.54	2.59	2.64
Allowed Costs[12]	Non-Energy Operating Costs (Excluding natural gas, diluent, and greenhouse gas emission compliance costs)																			
	Non-Gas Variable Opex				$	363,005,227.54	363,005,227.54	380,995,685.05	523,219,678.90	572,694,174.73	573,243,427.00	582,351,940.97	577,613,980.47	584,447,231.30	600,501,710.35	602,387,272.80	600,924,560.69	593,091,328.15	596,186,553.74	598,534,284.72
	Fixed Opex				$	72,601,045.51	72,601,045.51	76,199,137.01	104,643,935.78	114,538,834.95	114,648,685.40	116,470,388.19	115,522,796.09	116,889,446.26	120,100,342.07	120,477,454.56	120,100,912.14	118,618,265.63	119,237,310.75	119,706,856.94
	Total				$	**435,606,273.05**	**435,606,273.05**	**457,194,822.06**	**627,863,614.68**	**687,233,009.68**	**687,892,112.40**	**698,822,329.17**	**693,136,776.57**	**701,336,677.56**	**720,602,052.42**	**722,864,727.36**	**721,025,472.83**	**711,709,593.78**	**715,423,864.48**	**718,241,141.67**
	Capital Costs:																			
	Strategic Capital																			
	Wells				$	25,011,307.59	16,548,561.42	18,235,859.62	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
	Facilities				$	125,056,537.93	82,742,807.11	91,179,298.11	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
	Total				$	**150,067,845.51**	**99,291,368.53**	**109,415,157.74**	**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**
	Sustaining Capital																			
	Wells				$	238,437,924.07	534,835,770.30	471,284,548.34	632,471,048.78	269,914,438.07	392,567,192.66	385,285,965.64	439,888,377.93	516,410,102.71	449,272,718.71	456,947,902.74	465,605,155.06	472,034,116.88	460,939,973.53	463,856,786.88
	Facilities				$	23,843,792.41	53,483,577.03	47,128,454.83	63,247,104.88	26,991,443.81	39,256,719.27	38,528,596.56	43,988,837.79	51,641,010.27	44,927,271.87	45,684,790.27	46,560,515.51	47,203,411.69	46,093,997.35	46,385,678.69
	Total				$	**262,281,716.47**	**588,319,347.33**	**518,413,003.17**	**695,718,153.66**	**296,905,881.88**	**431,823,911.92**	**423,814,562.20**	**483,877,215.72**	**568,051,112.98**	**494,199,990.58**	**502,632,693.02**	**512,165,670.57**	**519,237,528.57**	**507,033,970.88**	**510,242,465.56**
	Abandonments and Reclamation Capital																			
	Abandonment Wells				$	6,570,000.00	6,734,250.00	6,902,606.25	7,075,171.41	7,252,050.69	7,433,351.96	7,619,185.76	7,809,665.40	8,004,907.04	8,205,029.71	8,410,155.46	8,620,409.34	8,835,919.58	9,056,817.56	9,283,238.00
	Abandonment Facilities				$	3,942,000.00	4,040,550.00	4,141,563.75	4,245,102.84	4,351,230.41	4,460,011.18	4,571,511.45	4,685,799.24	4,802,944.22	4,923,017.83	5,046,093.27	5,172,245.61	5,301,551.75	5,434,090.54	5,569,942.80
	Reclamation Capital				$	9,955,000.00	10,101,375.00	10,353,909.38	10,612,757.11	10,878,076.04	11,150,027.94	11,428,778.64	11,714,498.10	12,007,360.55	12,307,544.57	12,615,233.18	12,930,614.01	13,253,879.36	13,585,226.35	13,924,857.01
	Total				$	**20,367,000.00**	**20,876,175.00**	**21,398,079.38**	**21,933,031.36**	**22,481,357.14**	**23,043,391.07**	**23,619,475.85**	**24,209,962.74**	**24,815,211.81**	**25,435,592.11**	**26,071,481.91**	**26,723,268.96**	**27,392,350.68**	**28,076,134.45**	**28,778,037.81**
	Greenhouse Gas Emission Compliance Costs (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
Wells[13]	Number of New Production Wells				#	50	12	20	15	29	15	6	25	12	5	5	0	0	0	0
	Number of Abandoned Production Wells				#	0	0	5	1	3	2	3	2	0	3	2	1	1	0	0
	Number of New Injection Wells				#	50	10	20	15	29	15	6	25	12	5	5	0	0	0	0
	Number of Abandoned Injection Wells				#	0	0	5	1	3	2	3	2	0	3	2	1	1	0	0
GHG Emission Intensity[14]	Project GHG Emission Intensity per m3				Tonnes/m3	0.156980	0.156980	0.156980	0.156980	0.156980	0.156980	0.156980	0.156980	0.156980	0.156980	0.156980	0.156980	0.156980	0.156980	0.156980
Other Net Proceeds[15]					$	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
Name Plate Capacity[16]	Total Project Approved for Bitumen			9,000,000.0	m³/day															
	Total Project Approved for Steam			14,400,000.0	m³/day															
Non-Condensable Gas Injection[17]					m³/year	680,467.8	694,077.1	694,077.1	732,322.9	732,810.2	712,109.7	712,236.4	724,999.7	725,482.1	704,988.6	705,114.0	717,749.7	718,227.2	697,938.7	698,062.9
Solvent Injection[18]					m³/year	340,233.9	347,038.6	347,038.6	366,161.4	366,405.1	356,054.8	356,118.2	362,499.8	362,741.0	352,494.3	352,557.0	358,874.8	359,113.6	348,969.3	349,031.4
Actual or Forecast of Project Payout Date[19]																				

Main Contact	
Name:	
Position:	
Phone Number:	
E-mail Address:	
Date:	

Alternate Contact	
Name:	
Position:	
Phone Number:	
E-mail Address:	
Date:	

Additional Notes[20]

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 2022 real dollar if the current production year is 2022.

Filling the Form: Forecast Inputs

- Input forecasts figures in grey cells for the current calendar year and subsequent 14 calendar years, i.e. 2022 to 2036
- Units
  - Crude oil volume is in m^3 (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,
  - Greenhouse gas emission intensity is expressed in Tonne/m^3 Bitumen,
  - Greenhouse gas emission compliance costs as per TIER regulations.
- Operator should be able to distinguish between “Strategic Capital” and “Sustaining Capital”. For further clarifications, please refer to the “Superscript Notes” and Royalty regulations & guidelines.
- Each category’s definition is hyperlinked to the “Superscript Notes” tab.

Filling the Form: Phase Information

Cleaned Crude Bitumen Volume @ RCP (m^3/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[24]	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	4,555,015.01	6,169,431.71	6,169,431.71	6,169,431.71	6,169,431.71	6,169,431.71	6,169,431.71
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	D		320,974.97	1,000,941.96	1,306,560.91	1,230,515.08	1,233,886.35	1,230,515.08	1,230,515.08	1,230,515.08	1,233,886.35	1,230,515.08	1,230,515.08	1,230,515.08	1,233,886.35	1,230,515.08	1,230,515.08
	AAA Oil Sands Thermal Project	OSR123	A535	E		-	-	-	194,913.59	1,003,684.29	687,652.84	484,494.80	1,230,515.08	1,233,886.35	1,230,515.08	1,230,515.08	1,230,515.08	1,233,886.35	1,230,515.08	1,230,515.08
				Total	-	5,443,742.28	6,123,709.29	6,429,328.22	6,360,973.90	7,173,115.87	8,087,599.64	7,884,441.60	7,392,544.88	7,022,787.71	8,630,461.87	8,630,461.87	8,630,461.87	8,637,204.42	8,630,461.87	8,630,461.87

Steam Injection Volume (m^3/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[24]	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	12,675,070.78	12,675,070.78
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	D		802,437.43	818,486.17	818,486.17	834,855.90	834,855.90	810,301.31	810,301.31	826,507.34	826,507.34	802,198.30	802,198.30	818,242.26	818,242.26	794,176.32	794,176.32
	AAA Oil Sands Thermal Project	OSR123	A535	E					487,283.97	497,029.65	499,466.07	501,999.95	482,411.13	492,059.35	494,471.41	496,979.95	477,587.02	487,138.76	489,526.70	492,010.15
				Total	-	13,609,355.69	13,881,542.80	13,881,542.80	14,646,457.63	14,656,203.31	14,242,193.44	14,244,727.32	14,499,993.05	14,509,641.28	14,099,771.51	14,102,280.05	14,354,993.12	14,364,544.86	13,958,773.80	13,961,257.25

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[24]	AAA Oil Sands Thermal Project	OSR123	A535	A - C		42,458,897.01	43,443,219.35	40,942,607.64	37,843,210.12	36,827,821.05	41,235,161.05	42,303,351.20	36,047,593.06	35,186,006.78	37,845,650.35	36,359,750.30	36,463,802.48	36,889,734.61	36,571,096.03	36,641,544.37
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	D		1,534,307.16	8,511,582.21	10,470,997.73	9,460,802.35	9,206,955.26	8,247,032.35	8,460,670.52	9,019,264.37	9,531,370.20	9,003,768.13	9,184,800.90	9,239,979.98	9,142,849.67	9,189,210.42	9,190,679.79
	AAA Oil Sands Thermal Project	OSR123	A535	E		-	-	-	1,498,445.54	7,489,187.12	4,608,774.21	3,331,332.78	9,019,149.82	9,531,308.68	9,275,229.25	9,275,229.25	9,360,589.06	9,303,682.52	9,313,166.94	9,325,812.84
				Total		43,993,204.18	51,954,801.56	51,413,605.37	48,802,458.01	53,523,963.43	54,090,967.61	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[24]	AAA Oil Sands Thermal Project	OSR123	A535	A - C		640,345.91	653,152.83	653,152.83	666,215.89	666,215.89	646,621.30	646,621.30	659,553.73	659,553.73	640,155.09	640,155.09	652,958.19	652,958.19	633,753.54	633,753.54
Phases not Producing Yet	AAA Oil Sands Thermal Project	OSR123	A535	D		40,121.87	40,924.31	40,924.31	41,742.79	41,742.79	40,515.07	40,515.07	41,325.37	41,325.37	40,109.91	40,109.91	40,912.11	40,912.11	39,708.82	39,708.82
	AAA Oil Sands Thermal Project	OSR123	A535	E		-	-	-	24,364.20	24,851.48	24,973.30	25,100.00	24,120.56	24,602.97	24,723.57	24,849.00	23,879.35	24,356.94	24,476.33	24,600.51
				Total		680,467.78	694,077.14	694,077.14	732,322.88	732,810.17	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[24]	AAA Oil Sands Thermal Project	OSR123	A535	A - C		320,172.96	326,576.42	326,576.42	333,107.94	333,107.94	323,310.65	323,310.65	329,776.86	329,776.86	320,077.55	320,077.55	326,479.10	326,479.10	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	20,871.40	20,871.40	20,257.53	20,257.53	20,662.68	20,662.68	20,054.96	20,054.96	20,456.06	20,456.06	19,854.41	19,854.41
	AAA Oil Sands Thermal Project	OSR123	A535	E		-	-	-	12,182.10	12,425.74	12,486.65	12,550.00	12,060.28	12,301.48	12,361.79	12,424.50	11,939.68	12,178.47	12,238.17	12,300.25
				Total		340,233.89	347,038.57	347,038.57	366,161.44	366,405.08	356,054.84	356,118.18	362,499.83	362,741.03	352,494.29	352,557.00	358,874.83	359,113.62	348,969.34	349,031.43

Filling the Form: Phase Information

- Fill phase names only in the “Volumes” tab and then those will automatically carried over to other tables/tabs. All volumes now exist on a single tab.
  - New additions to the “Volumes” tab: steam, non-condensable gas, & solvent
- “Non Energy Operating Costs” have been separated into:
  - Non-Gas Variable OPEX
  - Fixed OPEX
- “Capital Costs” are further divided as:
  - Strategic Capital Wells, Strategic Capital Facilities
  - Sustaining Capital Wells, Sustaining Capital Facilities
  - Abandonment & Reclamation Capital costs are divided into three categories:
    - Capital Abandonment Wells
    - Capital Abandonment Facilities
    - Reclamation Capital
- “Wells” tab includes:
  - 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.
- Please use additional notes section if you want to provide further clarifications or explanations.

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 automatically blacked out when not required.

Cleaned Crude Bitumen Volume @ RCP (m^3/year)

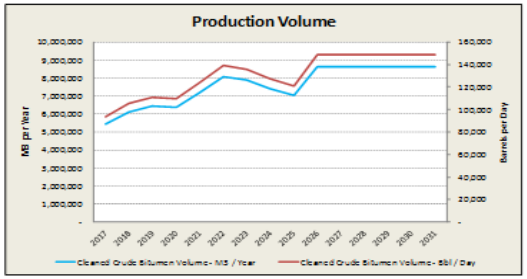
	Project Name	OSR Project Number	Project Operator	Phase	Name Plate Capacity Assessed for [illegible]	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Phase Already Producing	SAGD Project	OSR699	Tart	1.00	7,000,000.00	10,000,000.0	15,000,000.0	10,000,000.0	15,000,000.0	12,000,000.0	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
Phase not Producing Tot																				
				Total	7,000,000.00	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########

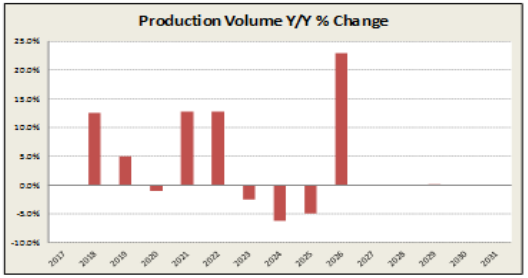
Steam Injection Volume (m^3/year)

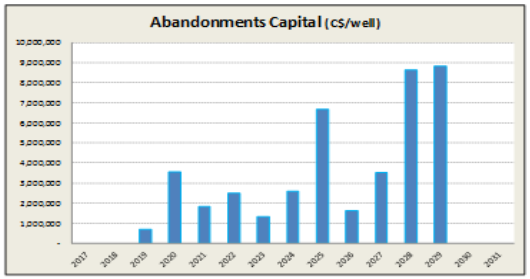
	Project Name	OSR Project Number	Project Operator	Phase	Name Plate Capacity Assessed for Steam [illegible]	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Phase Already Producing					32,000,000.00	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########
Phase not Producing Tot						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
									-	-	-	-	-	-	-	-	-	-	-	-
				Total	32,000,000.00	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########

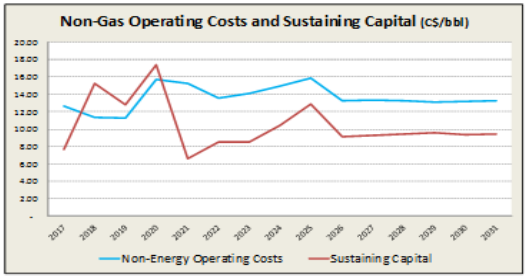
Filling the Form: Verifying Key Inputs

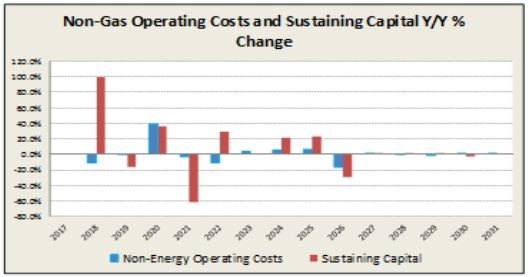
Key Metrics Input Checks - Graphs

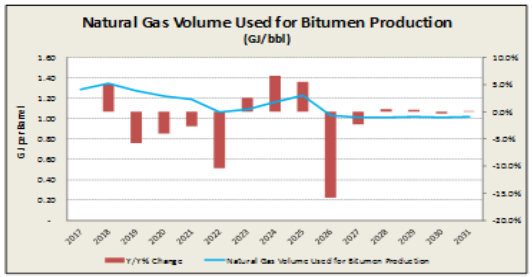












Key Metrics Input Checks - Data Value

Production Volumes Inputs Check[22]

		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Cleaned Crude Bitumen Volume - M3 / Year	M^3 / Year	5,443,742	6,123,709	6,429,328	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
Cleaned Crude Bitumen Volume - Bbl / Day	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
	Y/Y % 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[23]

		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Non-Energy Operating Costs	$ / 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
	Y/Y % 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	$ / 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
	Y/Y % 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	$ / 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	-	-
	Y/Y % 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[24]

		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Natural Gas Volume Used for Bitumen Production	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
	Y/Y % 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 on our website:
  - https://www.alberta.ca/Electronic-transfer-system.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

All inquiries related to operators forecast should be directed to:

Roc Xiang
Manager, Oil Sands and Downstream Economics
Energy Information & Analysis Branch
Department of Energy, Government of Alberta

Ph: (780) 427-0628
E-mail: roc.xiang@gov.ab.ca

Questions?