

Sinclair Unit No. 2

Waterflood Progress Report 2018

January 1st through December 31st 2018

Prepared for:

Manitoba Industry, Economic Development and Mines

Petroleum Branch

Prepared by:

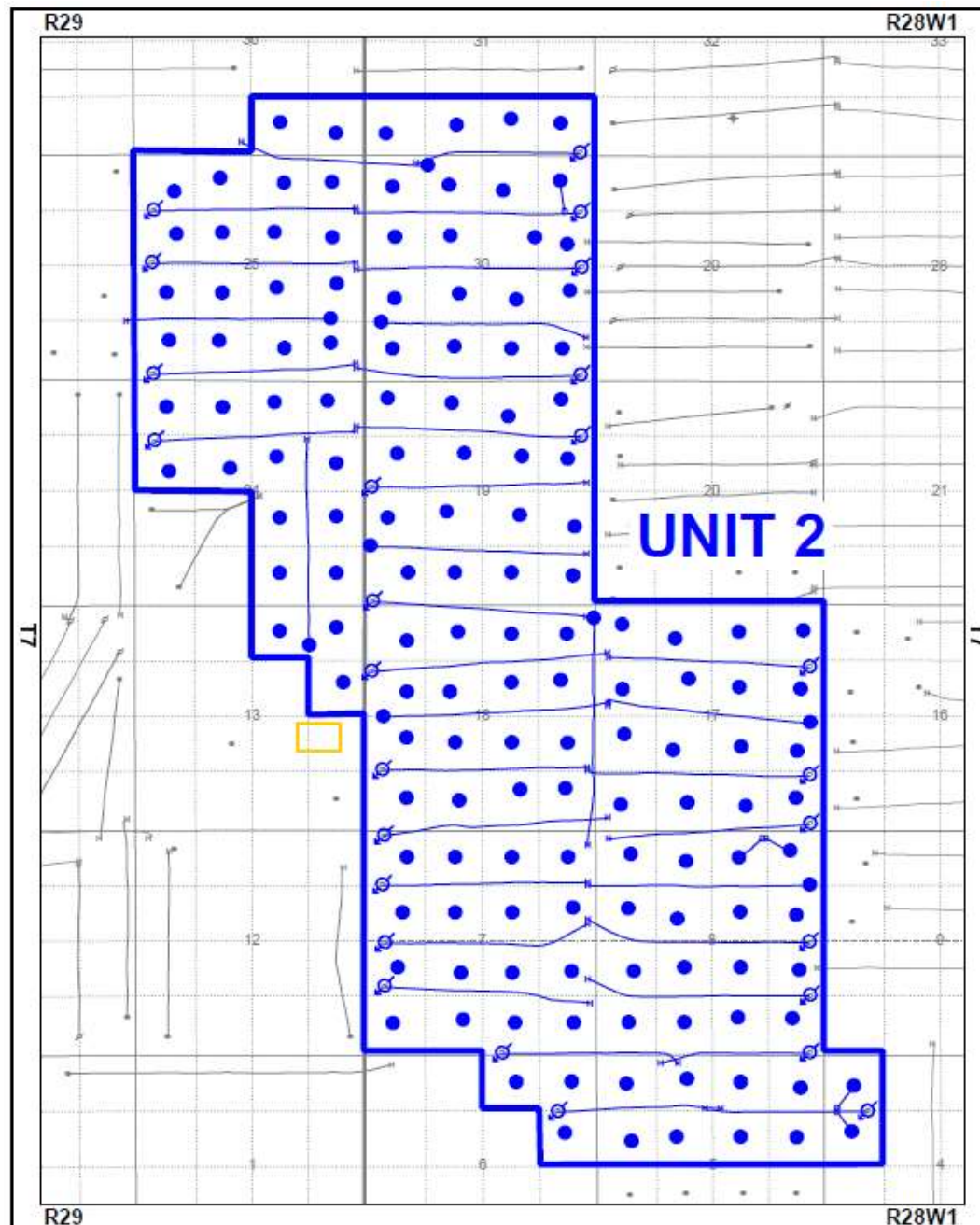
Tundra Oil and Gas

May 30, 2019

INTRODUCTION

Sinclair Unit No. 2 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Waterflood Order No. 17 effective January 1, 2010 with Tundra Oil and Gas (Tundra) as Operator. The EOR project area contains 156 producing and 26 injection wells in just over 9 sections in Township 7, Ranges 28 and 29 W1 as shown in the figure below.

Figure 1: Sinclair Unit No. 2 Area Outline



Sinclair Unit No. 2

Tundra Oil and Gas (Tundra), as the operator of the Sinclair Unit No. 2 Enhanced Oil Recovery (EOR) project hereby submits the 2018 EOR report as per section 73 of the Drilling and Production Regulations.

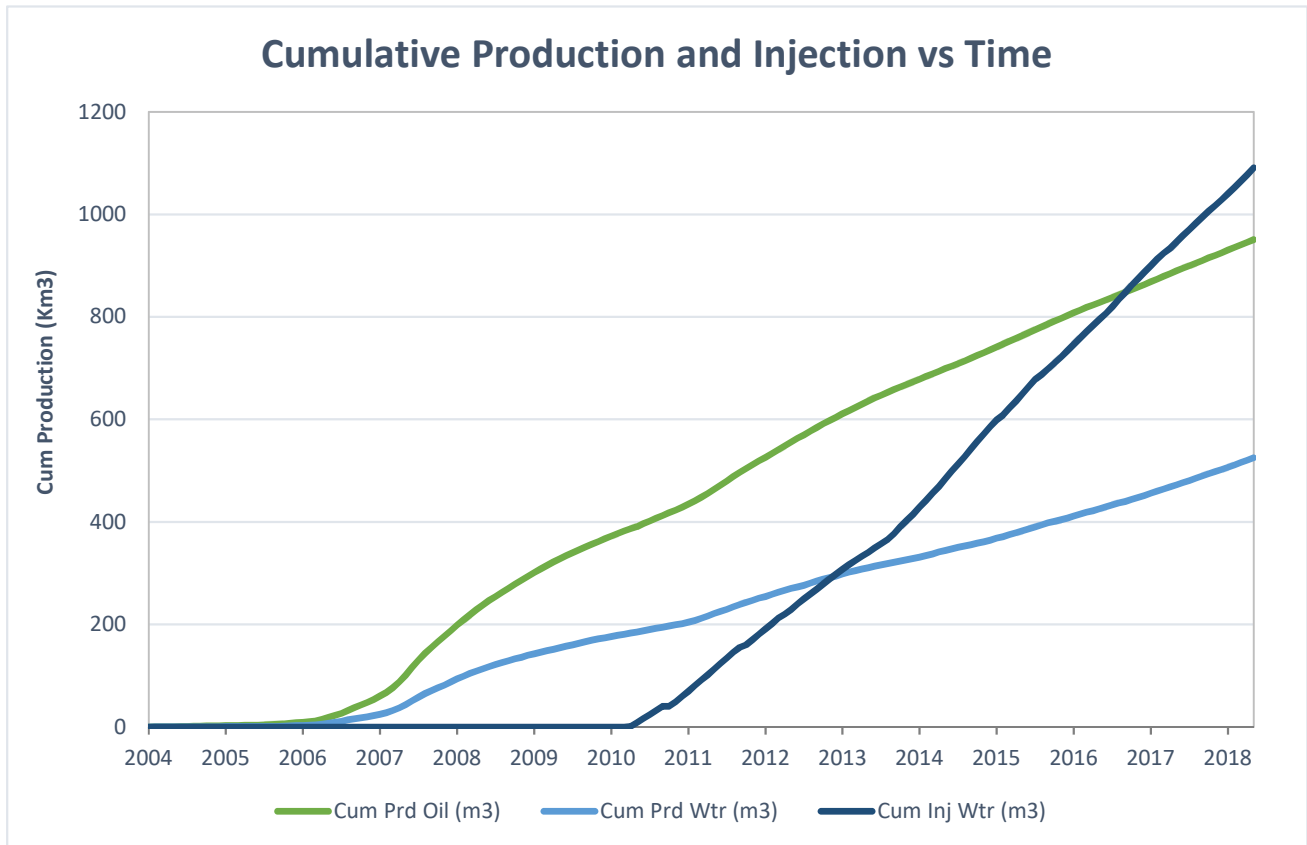
a) Monthly oil and water production rates, injection rate, GOR and WOR

MONTH	Cal Dly Oil m ³ /day	Cal Dly Wtr m ³ /day	Cal Inj Wtr m ³ /day	WOR m ³ /m ³	GOR m ³ /m ³
Jan-2018	170.56	136.84	404.77	0.80	0
Feb-2018	169.09	139.77	420.00	0.83	0
Mar-2018	169.78	148.47	413.10	0.87	0
Apr-2018	167.67	149.17	379.50	0.89	0
May-2018	168.29	148.50	399.87	0.88	0
Jun-2018	157.27	129.28	337.73	0.82	0
Jul-2018	161.34	127.70	364.19	0.79	0
Aug-2018	169.40	149.69	396.06	0.88	0
Sep-2018	170.97	146.00	384.00	0.85	0
Oct-2018	168.16	152.75	402.45	0.91	0
Nov-2018	164.58	150.30	430.80	0.91	0
Dec-2018	171.34	153.83	428.00	0.90	0

b) Cumulative volume of oil, gas and water produced and fluid injected

2018 PRODUCTION	
Produced Oil (m ³)	61,095
Produced Gas (m ³)	0
Produced Water (m ³)	52,708
Fluid Injected (m ³)	144,783
CUMULATIVE PRODUCTION	
Produced Oil (m ³)	950,886
Produced Water (m ³)	525,217

Sinclair Unit No. 2



c) Monthly wellhead injection pressure for each injection well

	02/12-18 Inj		02/04-19 Inj		02/09-30 Inj		03/16-19 Inj		02/05-18 Inj		03/01-17 Inj	
MONTH	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)
Jan-2018	816.0	6124	621.0	6550	295.0	873	624.0	6497	341.0	6185	648.0	4724
Feb-2018	766.0	6248	531.0	6522	269.0	736	552.0	6537	300.0	6207	597.0	5180
Mar-2018	735.0	6201	555.0	6454	291.0	662	581.0	6444	295.0	6075	634.0	5321
Apr-2018	711.0	6244	496.0	6340	162.0	229	95.0	5481	285.0	6045	589.0	5325
May-2018	857.0	6401	568.0	6472	306.0	328	0.0	3846	324.0	6216	619.0	5445
Jun-2018	696.0	6253	502.0	6320	253.0	343	0.0	3684	291.0	6080	461.0	4988
Jul-2018	838.0	6401	551.0	6444	300.0	1122	0.0	3684	318.0	6297	570.0	5220
Aug-2018	907.0	6508	555.0	6564	307.0	849	0.0	3684	339.0	6458	601.0	5376
Sep-2018	832.0	6511	509.0	6534	281.0	601	0.0	3684	302.0	6432	589.0	5509
Oct-2018	851.0	6540	531.0	6547	342.0	726	0.0	2055	319.0	6429	696.0	5832
Nov-2018	773.0	6559	507.0	6566	435.0	1584	0.0	1881	304.0	6408	645.0	5891
Dec-2018	729.0	6556	512.0	6556	456.0	1920	339.0	2624	316.0	6432	671.0	5975
Total	9511.0		6438.0		3697.0		2191.0		3734.0		7320.0	
Avg Inj P		6379		6489		831		4175		6272		5399

	02/09-17 Inj		02/12-07 Inj		02/01-17 Inj		02/12-19 Inj		02/08-30 Inj		02/13-07 Inj	
MONTH	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)
Jan-2018	681.0	4596	271.0	5888	603.0	6253	397.0	6577	243.0	1222	932.0	5776
Feb-2018	866.0	5002	240.0	5879	521.0	6215	345.0	6563	681.0	3298	705.0	5849
Mar-2018	1044.0	5339	244.0	5678	536.0	6071	375.0	6528	1037.0	5142	719.0	5737
Apr-2018	976.0	5302	238.0	5634	520.0	6029	361.0	6485	833.0	5606	621.0	5738
May-2018	1070.0	5439	271.0	5948	583.0	6228	391.0	6547	697.0	5824	642.0	5931
Jun-2018	901.0	5182	247.0	5826	532.0	6076	356.0	6448	0.0	5640	541.0	5836
Jul-2018	1153.0	5605	280.0	6058	599.0	6303	371.0	6506	0.0	5640	558.0	6022
Aug-2018	1202.0	5710	299.0	6257	639.0	6474	389.0	6568	877.0	5602	596.0	6214
Sep-2018	1158.0	5736	269.0	6233	579.0	6431	365.0	6530	783.0	5828	511.0	6197
Oct-2018	1351.0	5901	282.0	6117	602.0	6421	381.0	6550	749.0	6104	508.0	6179
Nov-2018	1476.0	6036	276.0	6050	563.0	6391	365.0	6560	856.0	6476	463.0	6148
Dec-2018	1535.0	6106	303.0	6083	577.0	6419	374.0	6564	775.0	6563	471.0	6175
Total	13413.0		3220.0		6854.0		4470.0		7531.0		7267.0	
Avg Inj P		5496		5971		6276		6535		5245		5983

c) Monthly wellhead injection pressure for each injection well

	03/08-08 Inj		02/16-05 Inj		02/15-06 Inj		02/05-07 Inj		02/09-06 Inj		02/12-04 Inj	
MONTH	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)
Jan-2018	459.0	5837	480.0	5790	466.0	5804	298.0	5564	467.0	5823	892.0	5685
Feb-2018	405.0	5828	417.0	5766	406.0	5781	218.0	5705	413.0	5801	800.0	5719
Mar-2018	413.0	5682	421.0	5625	410.0	5643	310.0	5699	431.0	5658	883.0	5173
Apr-2018	401.0	5646	407.0	5589	397.0	5607	279.0	5672	438.0	5722	842.0	4693
May-2018	448.0	5821	474.0	5753	455.0	5789	307.0	5842	500.0	5788	917.0	4690
Jun-2018	403.0	5658	418.0	5580	406.0	5624	276.0	5747	457.0	5619	780.0	4232
Jul-2018	450.0	5899	485.0	5820	466.0	5846	305.0	5930	525.0	5862	898.0	4342
Aug-2018	479.0	6110	557.0	6059	518.0	6077	328.0	6038	582.0	6089	433.0	3018
Sep-2018	417.0	6054	490.0	5969	453.0	5993	283.0	6082	523.0	6005	706.0	-15
Oct-2018	437.0	6046	505.0	5973	476.0	5991	295.0	6063	554.0	6003	791.0	91
Nov-2018	409.0	5991	460.0	5896	446.0	5911	273.0	6001	525.0	5888	1116.0	-12
Dec-2018	425.0	6027	474.0	5949	330.0	5408	287.0	6042	560.0	5967	1070.0	-19
Total	5146.0		5588.0		5229.0		3459.0		5975.0		10128.0	
Avg Inj P		5883		5814		5789		5865		5852		3133

	02/08-08 Inj		03/05-07 Inj		02/01-30 Inj		02/16-30 Inj		02/12-25 Inj		02/12-24 Inj	
MONTH	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)
Jan-2018	402.0	5590	326.0	5758	649.0	6566	312.0	6565	292.0	6258	272.0	6446
Feb-2018	420.0	5902	304.0	5899	546.0	6569	276.0	6561	265.0	6276	242.0	6468
Mar-2018	418.0	5767	309.0	5765	567.0	6534	298.0	6555	289.0	6279	258.0	6412
Apr-2018	404.0	5739	298.0	5727	526.0	6542	286.0	6540	268.0	6239	245.0	6374
May-2018	456.0	5917	332.0	5903	531.0	6546	300.0	6549	288.0	6248	277.0	6493
Jun-2018	408.0	5763	304.0	5759	463.0	6241	271.0	6290	254.0	6081	243.0	6288
Jul-2018	457.0	5998	340.0	5984	0.0	6563	296.0	6578	292.0	6262	267.0	6453
Aug-2018	488.0	6189	358.0	6176	0.0	6563	291.0	6569	302.0	6333	269.0	6530
Sep-2018	434.0	6137	326.0	6131	42.0	6083	268.0	6495	277.0	6304	251.0	6480
Oct-2018	449.0	6132	342.0	6116	275.0	4232	285.0	6554	271.0	6255	267.0	6516
Nov-2018	422.0	6084	322.0	6086	575.0	5534	273.0	6568	338.0	6500	251.0	6480
Dec-2018	438.0	6119	334.0	6104	598.0	6319	278.0	6570	315.0	6566	264.0	6559
Total	5196.0		3895.0		4772.0		3434.0		3451.0		3106.0	
Avg Inj P		5945		5951		6191		6533		6300		6458

c) Monthly wellhead injection pressure for each injection well

	03/12-25 Inj		02/04-25 Inj		SU2	
MONTH	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)	Inj Water (m ³)	Avg Inj P (kPa)
Jan-2018	263.0	6233	498.0	5789	12548.0	5576
Feb-2018	239.0	6247	436.0	5723	11760.0	5711
Mar-2018	260.0	6242	493.0	5734	12806.0	5709
Apr-2018	245.0	6215	462.0	5674	11385.0	5632
May-2018	271.0	6258	512.0	5688	12396.0	5689
Jun-2018	235.0	6132	434.0	5487	10132.0	5507
Jul-2018	344.0	8418	627.0	5876	11290.0	5813
Aug-2018	302.0	6556	660.0	6176	12278.0	5798
Sep-2018	280.0	6539	592.0	6210	11520.0	5642
Oct-2018	287.0	6557	630.0	6254	12476.0	5546
Nov-2018	272.0	6563	579.0	6222	12924.0	5625
Dec-2018	277.0	6567	560.0	5998	13268.0	5698
Total	3275.0		6483.0		144783.0	
Avg Inj P		6544		5903		5662

MONTH	Jan-2018	Feb-2018	Mar-2018	Apr-2018	May-2018	Jun-2018	Jul-2018	Aug-2018	Sep-2018	Oct-2018	Nov-2018	Dec-2018
Total m3	12548.0	11760.0	12806.0	11385.0	12396.0	10132.0	11290.0	12278.0	11520.0	12476.0	12924.0	13268.0
Daily (m³/d)	404.77	420.00	413.10	379.50	399.87	337.73	364.19	396.06	384.00	402.45	430.80	428.00

2018 AVG. ANNUAL DAILY INJECTION = 396.71 m3/d
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CUMULATIVE INJECTION TO Dec 31, 2017 = 946,068 m3

TOTAL 2018 ANNUAL INJECTION = 144,783 m3
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CUMULATIVE INJECTION TO Dec 31, 2018 = 1,090,851 m3

d) Summary of the result of any survey of reservoir pressure conducted in 2018. N/A

e) Date and type of any well servicing.

Well	Service Description	Date
100.01-07-007-28W1.00	Pump Change/Acid Job	11/22/2018
100.01-18-007-28W1.00	Pump Change/ Acid Job	11/14/2018
100.01-30-007-28W1.00	Rigless Acid	6/28/2018
100.02-18-007-28W1.00	Pump Change/Aciid Job	11/10/2018
100.03-18-007-28W1.00	Pump Change/Acid Job	11/2/2018
100.03-31-007-28W1.00	Pump Change/Acid Job	9/28/2018
100.04-07-007-28W1.00	Pump Change/Acid Job	12/14/2018
100.04-18-007-28W1.00	Pump Change/Acid Job	8/31/2018
100.05-07-007-28W1.00	Pump Change/Acid Job	12/13/2018
100.05-08-007-28W1.00	Pump Change/Acid Job	8/29/2018
100.05-19-007-28W1.00	Rigless Acid	6/26/2018
100.06-30-007-28W1.00	Pump Change	1/8/2018
100.06-30-007-28W1.00	Scale Squeeze SCW8234 + WAW3901	1/10/2018
100.07-08-007-28W1.00	Pump Change-Acid Job	2/21/2018
100.07-08-007-28W1.00	Pump Change	12/12/2018
100.07-17-007-28W1.00	Pump Change/Acid Job	11/23/2018
100.08-07-007-28W1.00	Pump Change	2/2/2018
100.08-07-007-28W1.00	Scale Squeeze SCW8234 + WAW3901	2/14/2018
100.08-30-007-28W1.00	Rigless Acid	6/26/2018
100.09-18-007-28W1.00	Pump Change/Acid Job	11/8/2018
100.10-07-007-28W1.00	Scale Squeeze SCW8234 + WAW3901	1/17/2018
100.11-05-007-28W1.00	Pump Change/Acid Job	12/10/2018
100.11-07-007-28W1.00	Rigless Acid	6/28/2018
100.11-17-007-28W1.00	Rigless Acid	6/26/2018
100.12-05-007-28W1.00	Pump Change/Acid Job	12/11/2018
100.12-07-007-28W1.00	Pump Change/Acid Job	11/9/2018
100.12-19-007-28W1.00	Pump Change	7/9/2018
100.12-30-007-28W1.00	Pump Change/Acid Job	6/18/2018
100.13-07-007-28W1.00	Pump Change & Acid Job	11/29/2018
100.13-08-007-28W1.00	Pump Change/Acid Job	8/27/2018
100.14-30-007-28W1.00	Pump Change	2/23/2018
100.14-30-007-28W1.00	Broken Polish Rod	4/11/2018
100.15-06-007-28W1.00	Polish Rod Repair	9/4/2018
100.15-07-007-28W1.00	Pump Change/Acid Job	11/21/2018
100.15-19-007-28W1.00	Pump Change	7/17/2018
100.15-30-007-28W1.00	Broken Rod/pump change	1/22/2018
100.16-07-007-28W1.00	Pump Change	2/22/2018
100.16-08-007-28W1.00	Pump Change/Acid Job	7/19/2018
102.12-04-007-28W1.00	Packer Repair	8/17/2018
103.05-18-007-28W1.00	Pump Change	7/30/2018
100.01-25-007-29W1.00	Pump Change	8/13/2018
100.01-36-007-29W1.00	Pump Change/Acid Job	9/26/2018
100.02-24-007-29W1.00	Pump Change/Acid Job	11/29/2018
100.07-24-007-29W1.00	Pump Change/Acid Job	11/30/2018
100.08-25-007-29W1.00	Rigless Acid Stimulation	3/16/2018
100.09-25-007-29W1.00	Pump Change	9/7/2018
100.10-24-007-29W1.00	Pump Change/Acid Job	12/5/2018
100.10-25-007-29W1.00	Pump Change	7/12/2018
100.11-24-007-29W1.00	Pump Change/Acid Job	12/6/2018
100.11-25-007-29W1.00	Pump Change/Acid Job	11/28/2018
100.12-25-007-29W1.00	Pump Change/ Acid Job	11/27/2018
104.08-25-007-29W1.00	Pump Change	3/10/2018

f) Calculations of voidage replacement ratio on a monthly and cumulative basis

VOIDAGE CALCULATIONS

OIL FORMATION VOLUME FACTOR (Rm3/Sm3) = 1.071

MONTH	Mth Oil Prod (m3)	Cum Oil Prod (Km3)	Mth Water Prod (m3)	Cum Water Prod (Km3)	Mth Water Inj (m3)	Cum Water Inj (Km3)	VRR	Cum VRR
Jan-2018	5287.5	895.08	4242.1	476.75	12548.0	958.62	1.267	0.668
Feb-2018	4734.5	899.81	3913.6	480.67	11760.0	970.38	1.309	0.672
Mar-2018	5263.3	905.08	4602.7	485.27	12806.0	983.18	1.251	0.676
Apr-2018	5030.2	910.11	4475.1	489.74	11385.0	994.57	1.154	0.679
May-2018	5216.9	915.32	4603.6	494.35	12396.0	1006.96	1.216	0.683
Jun-2018	4718.2	920.04	3878.3	498.22	10132.0	1017.09	1.134	0.686
Jul-2018	5001.6	925.04	3958.6	502.18	11290.0	1028.38	1.212	0.689
Aug-2018	5251.3	930.30	4640.4	506.82	12278.0	1040.66	1.196	0.692
Sep-2018	5129.2	935.42	4380.1	511.20	11520.0	1052.18	1.167	0.695
Oct-2018	5213.0	940.64	4735.4	515.94	12476.0	1064.66	1.209	0.699
Nov-2018	4937.5	945.57	4508.9	520.45	12924.0	1077.58	1.319	0.703
Dec-2018	5311.4	950.89	4768.8	525.22	13268.0	1090.85	1.269	0.707

g) An outline of the method used for quality control and treatment of the injected fluid

The injection water for Sinclair Unit No. 2 was sourced from the 02/16-32-007-29W1 well (Lodgepole formation) until June 2016 when it was switched over to the newly recompleted source water well at 02/14-30-007-28W1 (Mannville formation). The water is treated at the 04-01-008-29W1 filtration plant where it is filtered to 0.1 microns and has scale inhibitor and biocide added. The injection water is then distributed to the injectors through the dedicated infrastructure system.

h) A report of any unusual performance problems and remedial measures taken or being considered. N/A

i) Any other information necessary to evaluate the project

<i>UWI</i>	<i>Type</i>	<i>Status</i>	<i>Future Plans</i>
100/12-04-007-28W1/0	Dir/Dev	Producing	-
102/12-04-007-28W1/0	Horizontal	Injection	-
100/13-04-007-28W1/0	Dir/Dev	Producing	-
100/09-05-007-28W1/0	Vertical	Producing	-
100/10-05-007-28W1/0	Vertical	Producing	-
100/11-05-007-28W1/0	Vertical	Producing	-
100/12-05-007-28W1/0	Vertical	Producing	-
100/13-05-007-28W1/0	Vertical	Producing	-
100/14-05-007-28W1/0	Vertical	Producing	-
100/15-05-007-28W1/0	Vertical	Producing	-
100/16-05-007-28W1/0	Vertical	Producing	-
102/16-05-007-28W1/0	Horizontal	Injection	-
100/09-06-007-28W1/0	Vertical	Producing	-
102/09-06-007-28W1/0	Horizontal	Injection	-
100/15-06-007-28W1/0	Vertical	Producing	-
102/15-06-007-28W1/0	Horizontal	Injection	-
100/16-06-007-28W1/0	Vertical	Producing	-
100/01-07-007-28W1/0	Vertical	Producing	-
100/02-07-007-28W1/0	Vertical	Producing	-
100/03-07-007-28W1/0	Vertical	Producing	-
100/04-07-007-28W1/0	Vertical	Producing	-
100/05-07-007-28W1/0	Vertical	Producing	-
102/05-07-007-28W1/2	Horizontal	Injection	-
103/05-07-007-28W1/0	Horizontal	Injection	-
100/06-07-007-28W1/0	Vertical	Producing	-
100/07-07-007-28W1/0	Vertical	Producing	-
100/08-07-007-28W1/0	Vertical	Producing	-
100/09-07-007-28W1/0	Vertical	Producing	-
100/10-07-007-28W1/0	Vertical	Producing	-
100/11-07-007-28W1/0	Vertical	Producing	-
100/12-07-007-28W1/0	Vertical	Producing	-
102/12-07-007-28W1/0	Horizontal	Injection	-
100/13-07-007-28W1/0	Vertical	Producing	-
102/13-07-007-28W1/0	Horizontal	Injection	-
100/14-07-007-28W1/0	Vertical	Producing	-
100/15-07-007-28W1/0	Vertical	Producing	-
100/16-07-007-28W1/0	Vertical	Producing	-
100/01-08-007-28W1/0	Vertical	Producing	-
100/02-08-007-28W1/0	Vertical	Producing	-
100/03-08-007-28W1/0	Vertical	Producing	-
100/04-08-007-28W1/0	Vertical	Producing	-
102/04-08-007-28W1/0	Horizontal	Drilled & Cased	-
100/05-08-007-28W1/0	Vertical	Producing	-
100/06-08-007-28W1/0	Vertical	Producing	-
100/07-08-007-28W1/0	Vertical	Producing	-

j) Well List

Sinclair Unit No.2 Well List

<i>UWI</i>	<i>Type</i>	<i>Status</i>	<i>Future Plans</i>
100/08-08-007-28W1/0	Vertical	Producing	-
102/08-08-007-28W1/0	Horizontal	Injection	-
103/08-08-007-28W1/0	Horizontal	Injection	-
100/09-08-007-28W1/0	Vertical	Producing	-
102/09-08-007-28W1/0	Horizontal	Producing	-
100/10-08-007-28W1/0	Vertical	Producing	-
100/11-08-007-28W1/0	Vertical	Producing	-
100/12-08-007-28W1/0	Vertical	Producing	-
100/13-08-007-28W1/0	Vertical	Producing	-
100/14-08-007-28W1/0	Vertical	Producing	-
100/15-08-007-28W1/0	Dir/Dev	Producing	-
100/16-08-007-28W1/0	Dir/Dev	Producing	-
100/01-17-007-28W1/0	Vertical	Producing	-
102/01-17-007-28W1/0	Horizontal	Injection	-
103/01-17-007-28W1/0	Horizontal	Injection	-
100/02-17-007-28W1/0	Vertical	Producing	-
100/03-17-007-28W1/0	Vertical	Producing	-
100/04-17-007-28W1/0	Vertical	Producing	-
100/05-17-007-28W1/0	Vertical	Producing	-
100/06-17-007-28W1/0	Vertical	Producing	-
100/07-17-007-28W1/0	Vertical	Producing	-
100/08-17-007-28W1/0	Vertical	Producing	-
102/08-17-007-28W1/0	Horizontal	Producing	-
100/09-17-007-28W1/0	Vertical	Producing	-
102/09-17-007-28W1/0	Horizontal	Injection	-
100/10-17-007-28W1/0	Vertical	Producing	-
100/11-17-007-28W1/0	Vertical	Producing	-
100/12-17-007-28W1/0	Vertical	Producing	-
100/13-17-007-28W1/0	Vertical	Producing	-
100/14-17-007-28W1/0	Vertical	Producing	-
100/15-17-007-28W1/0	Vertical	Producing	-
100/16-17-007-28W1/0	Vertical	Producing	-
100/01-18-007-28W1/0	Vertical	Producing	-
100/02-18-007-28W1/0	Vertical	Producing	-
100/03-18-007-28W1/0	Vertical	Producing	-
100/04-18-007-28W1/0	Vertical	Producing	-
100/05-18-007-28W1/0	Vertical	Producing	-
102/05-18-007-28W1/0	Horizontal	Injection	-
103/05-18-007-28W1/2	Horizontal	Producing	-
100/06-18-007-28W1/0	Vertical	Producing	-
100/07-18-007-28W1/0	Vertical	Producing	-
100/08-18-007-28W1/0	Vertical	Producing	-
100/09-18-007-28W1/0	Vertical	Producing	-
100/10-18-007-28W1/0	Vertical	Producing	-
100/11-18-007-28W1/0	Vertical	Producing	-
100/12-18-007-28W1/0	Vertical	Producing	-

j) Well List

Sinclair Unit No.2 Well List

<i>UWI</i>	<i>Type</i>	<i>Status</i>	<i>Future Plans</i>
102/12-18-007-28W1/0	Horizontal	Injection	-
100/13-18-007-28W1/0	Vertical	Producing	-
100/14-18-007-28W1/0	Vertical	Producing	-
100/15-18-007-28W1/0	Vertical	Producing	-
100/16-18-007-28W1/0	Vertical	Producing	-
102/16-18-007-28W1/0	Horizontal	Producing	-
100/01-19-007-28W1/0	Vertical	Producing	-
100/02-19-007-28W1/0	Vertical	Producing	-
100/03-19-007-28W1/0	Vertical	Producing	-
100/04-19-007-28W1/0	Vertical	Producing	-
102/04-19-007-28W1/0	Horizontal	Injection	-
103/04-19-007-28W1/0	Horizontal	Producing	WIW Conversion
100/05-19-007-28W1/0	Vertical	Producing	-
100/06-19-007-28W1/0	Vertical	Producing	-
100/07-19-007-28W1/0	Vertical	Producing	-
100/08-19-007-28W1/0	Vertical	Producing	-
100/09-19-007-28W1/0	Vertical	Producing	-
100/10-19-007-28W1/0	Vertical	Producing	-
100/11-19-007-28W1/0	Vertical	Producing	-
100/12-19-007-28W1/0	Vertical	Producing	-
102/12-19-007-28W1/0	Horizontal	Injection	-
100/13-19-007-28W1/0	Vertical	Producing	-
100/14-19-007-28W1/0	Vertical	Producing	-
100/15-19-007-28W1/0	Vertical	Producing	-
100/16-19-007-28W1/0	Vertical	Producing	-
103/16-19-007-28W1/0	Horizontal	Injection	-
100/01-30-007-28W1/0	Vertical	Producing	-
102/01-30-007-28W1/0	Horizontal	Injection	-
100/02-30-007-28W1/0	Vertical	Producing	-
100/03-30-007-28W1/0	Vertical	Producing	-
100/04-30-007-28W1/0	Vertical	Producing	-
102/04-30-007-28W1/0	Horizontal	Producing	-
100/05-30-007-28W1/0	Vertical	Producing	-
100/06-30-007-28W1/0	Vertical	Producing	-
100/07-30-007-28W1/0	Vertical	Producing	-
100/08-30-007-28W1/0	Vertical	Producing	-
102/08-30-007-28W1/0	Horizontal	Injection	-
100/09-30-007-28W1/2	Vertical	Producing	-
102/09-30-007-28W1/0	Horizontal	Injection	-
100/10-30-007-28W1/0	Vertical	Producing	-
100/11-30-007-28W1/0	Vertical	Producing	-
100/12-30-007-28W1/0	Vertical	Producing	-
100/13-30-007-28W1/0	Vertical	Producing	-
100/14-30-007-28W1/0	Vertical	Producing	-
103/14-30-007-28W1/0	Horizontal	Producing	WIW Conversion
100/15-30-007-28W1/0	Vertical	Producing	-

j) Well List

Sinclair Unit No.2 Well List

<i>UWI</i>	<i>Type</i>	<i>Status</i>	<i>Future Plans</i>
100/16-30-007-28W1/0	Dir/Dev	Producing	-
102/16-30-007-28W1/0	Horizontal	Injection	-
100/01-31-007-28W1/0	Vertical	Producing	-
100/02-31-007-28W1/0	Vertical	Producing	-
100/03-31-007-28W1/0	Vertical	Producing	-
100/04-31-007-28W1/0	Vertical	Producing	-
100/09-13-007-29W1/0	Vertical	Producing	-
100/15-13-007-29W1/0	Vertical	Producing	-
100/16-13-007-29W1/0	Vertical	Producing	-
102/16-13-007-29W1/0	Horizontal	Producing	WIW Conversion
100/01-24-007-29W1/0	Vertical	Producing	-
100/02-24-007-29W1/0	Vertical	Producing	-
100/07-24-007-29W1/0	Vertical	Producing	-
100/08-24-007-29W1/0	Vertical	Producing	-
100/09-24-007-29W1/0	Vertical	Producing	-
100/10-24-007-29W1/0	Vertical	Producing	-
100/11-24-007-29W1/0	Vertical	Producing	-
100/12-24-007-29W1/0	Vertical	Suspended	-
102/12-24-007-29W1/0	Horizontal	Injection	-
100/13-24-007-29W1/0	Vertical	Producing	-
100/14-24-007-29W1/0	Vertical	Producing	-
100/15-24-007-29W1/0	Vertical	Producing	-
100/16-24-007-29W1/0	Vertical	Producing	-
100/01-25-007-29W1/0	Vertical	Producing	-
100/02-25-007-29W1/0	Vertical	Producing	-
100/03-25-007-29W1/0	Vertical	Producing	-
100/04-25-007-29W1/0	Vertical	Producing	-
102/04-25-007-29W1/0	Horizontal	Injection	-
100/05-25-007-29W1/0	Vertical	Producing	-
100/06-25-007-29W1/0	Vertical	Producing	-
100/07-25-007-29W1/0	Vertical	Producing	-
100/08-25-007-29W1/0	Vertical	Producing	-
104/08-25-007-29W1/0	Horizontal	Producing	-
100/09-25-007-29W1/0	Vertical	Producing	-
100/10-25-007-29W1/0	Vertical	Producing	-
100/11-25-007-29W1/0	Vertical	Producing	-
100/12-25-007-29W1/0	Vertical	Producing	-
102/12-25-007-29W1/0	Horizontal	Injection	-
103/12-25-007-29W1/0	Horizontal	Injection	-
100/13-25-007-29W1/0	Vertical	Producing	-
100/14-25-007-29W1/0	Vertical	Producing	-
100/15-25-007-29W1/0	Vertical	Producing	-
100/16-25-007-29W1/0	Vertical	Producing	-
100/01-36-007-29W1/0	Vertical	Producing	-
100/02-36-007-29W1/0	Vertical	Producing	-