

TUNDRA OIL & GAS LIMITED
SINCLAIR UNIT NO. 2 (PROPOSED)
& SINCLAIR UNIT NO. 3 (PROPOSED)
ORIGINAL OIL-IN-PLACE ESTIMATE

Effective April 01, 2009

Prepared by
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SINCLAIR UNIT NO. 2 (PROPOSED) & SINCLAIR UNIT NO. 3 (PROPOSED)

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June 24, 2009

Project 1099433

Ms. Nancy Farmer, P. Eng.
Tundra Oil & Gas Limited
1000, 715 - 5th Avenue S.W.
Calgary, Alberta T2P 2X6

Dear Ms. Farmer:

Re: Sinclair Field, Manitoba
Sinclair Unit No. 2 (Proposed)
& Sinclair Unit No. 3 (Proposed)
Original Oil-In-Place Estimates

At your request, GLJ Petroleum Consultants Ltd. (GLJ) has prepared original oil-in-place (OOIP) estimates for the Sinclair Unit No. 2 (Proposed) and the Sinclair Unit No. 3 (Proposed). The OOIP estimates have been determined based on volumetric calculations using GLJ's average porosity times net pay thickness ($\phi \cdot H$) mapping for the "A" zone of the Upper Devonian age Lyleton Formation and Tundra Oil & Gas Limited's $\phi \cdot H$ mapping for the Lyleton "B" and Mid Bakken zones. The analysis incorporates well, core and log data available to April 1, 2009.

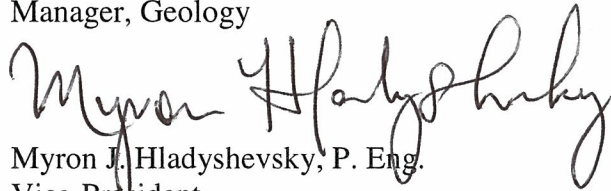
A brief discussion of the methodology and geological considerations, as well as pore volume mapping, is included in the attached report.

We trust this meets your current requirements. Should you have any questions regarding this analysis, please contact either of the undersigned.

Yours truly,

GLJ PETROLEUM CONSULTANTS LTD.

T. Mark Jobin, P. Geol.
Manager, Geology



Myron J. Hladyshevsky, P. Eng.
Vice-President

TMJ/MJH/jem
Attachments

DISCUSSION

GLJ Petroleum Consultants Ltd. (GLJ) has prepared original oil-in-place (OOIP) estimates for the Sinclair Field on an annual basis since the initial discovery well was drilled by Tundra Oil & Gas Limited (Tundra) in 2003. The OOIP estimates have been prepared as part of an annual independent reserves evaluation conducted by GLJ on the composite Tundra portfolio.

In July 2006, Sections 04 and 09-008-29W1 were unitized to form the Sinclair Unit No. 1. Water injection commenced and a favorable production response has been observed. In 2008, Unit 1 was expanded to include an additional seven sections of land in Township 008, Range 29 W1M.

Based on continued drilling success in the Sinclair pool, Tundra is proposing two additional Units in the Sinclair Field. Sinclair Unit No. 2 (Proposed) will consist of nine sections of land located in Township 007, Ranges 28 and 29 W1M as outlined on Maps 1 through 3. Sinclair Unit No. 3 (Proposed) will consist of six sections of land located in Township 008, Range 29 W1M as outlined on Maps 4 through 6. Tundra is also planning to implement water injection operations in these Units. At Tundra's request, GLJ has prepared OOIP estimates for these lands, incorporating data available to April 1, 2009.

Oil production in the Sinclair Field is mainly obtained from the Upper Devonian age Lyleton Formation of the Three Forks Group, with minor production coming from the overlying Middle Member of the Mississippian age Bakken Formation. A large number of wells drilled to date were cored and core analysis data was used to establish net oil pay in the Lyleton. Net oil pay in these cored wells has been estimated based on a 1.0 millidarcy permeability cutoff. In the absence of core data, net pay values have been determined from log analysis utilizing a 12 percent porosity cutoff. This porosity cutoff is based on a K_{max} vs porosity crossplot from some of the early-cored wells, which indicated that core porosity 12 percent, equates to a permeability of approximately 1.0 millidarcy. Average porosity values in logged wells have been estimated from a cross plot of the neutron and density logs. Generally, a water saturation cutoff of 55 percent has been applied in determining net pay, although this has been increased to as high as 60 percent to include intervals that have tested oil. Consideration is also given to the spontaneous potential, gamma-ray and resistivity log responses as well as test data in establishing a net pay value.

Sinclair Unit No. 2 (Proposed) and Sinclair Unit No. 3 (Proposed)

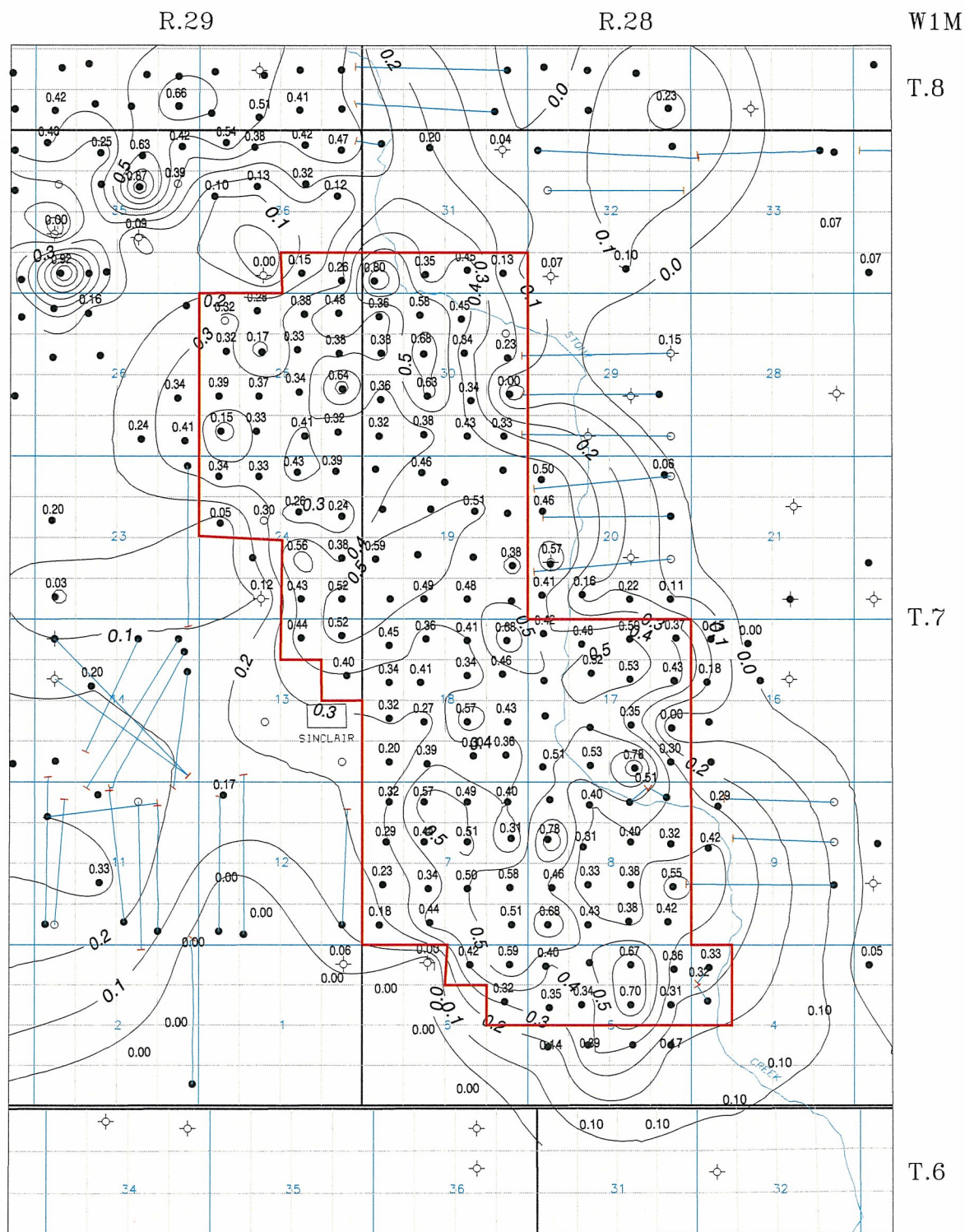
Effective April 1, 2009, volumetric calculations of OOIP for the proposed Units were determined using average porosity times net pay thickness ($\phi \cdot H$) mapping. Average $\phi \cdot H$ mapping of the "A" zone of the Upper Devonian age Lyleton Formation (Maps 1 and 4) has been prepared by GLJ for the Unit No. 2 (Proposed) and the Unit No. 3 (Proposed). These maps incorporate all wells within the Unit boundaries and adjacent wells in which there is either core data or a full suite of open hole well logs over the productive Lyleton section. It is noted that GLJ's mapping does not include any contribution from the Lyleton "B" interval or the overlying Middle Member of the Bakken Formation. However, Tundra has prepared $\phi \cdot H$ mapping for the Lyleton "B" and the Mid Bakken zones (Maps 2, 3, 5 and 6), and GLJ has planimetered these maps and incorporated the results into the OOIP calculations for the two Units.

Pore volumes were determined from planimetering the $\phi \cdot H$ maps on 40 acre spacing. The total OOIP for each tract is the sum of the OOIP for the Lyleton "A", Lyleton "B" and Mid Bakken zones. Average water saturation values of 45 and 40 percent for the Unit No. 2 (Proposed) and the Unit No. 3 (Proposed), respectively, have been estimated and the initial oil formation volume factor (B_{oi}) of 1.018 RB/STB was applied as determined from a Hycal Reservoir Fluid Study (well 01-04-008-29W1 – January 25, 2006). The results of the OOIP calculations are presented in Tables 1 and 2 for the Unit No. 2 (Proposed) and the Unit No. 3 (Proposed), respectively. The total OOIP for the Sinclair Unit No. 2 (Proposed) was determined at 39.0 MMSTB and the total OOIP for the Sinclair Unit No. 3 (Proposed) was determined at 30.7 MMSTB.

Map 1
Sinclair Unit No. 2 (Proposed)
Lyleton Formation
"A" Zone

Company: Tundra Oil & Gas Limited
Property: Sinclair

Effective Date: April 1, 2009
Scale: 1:65,000 s1099448/p01m01



LEGEND:

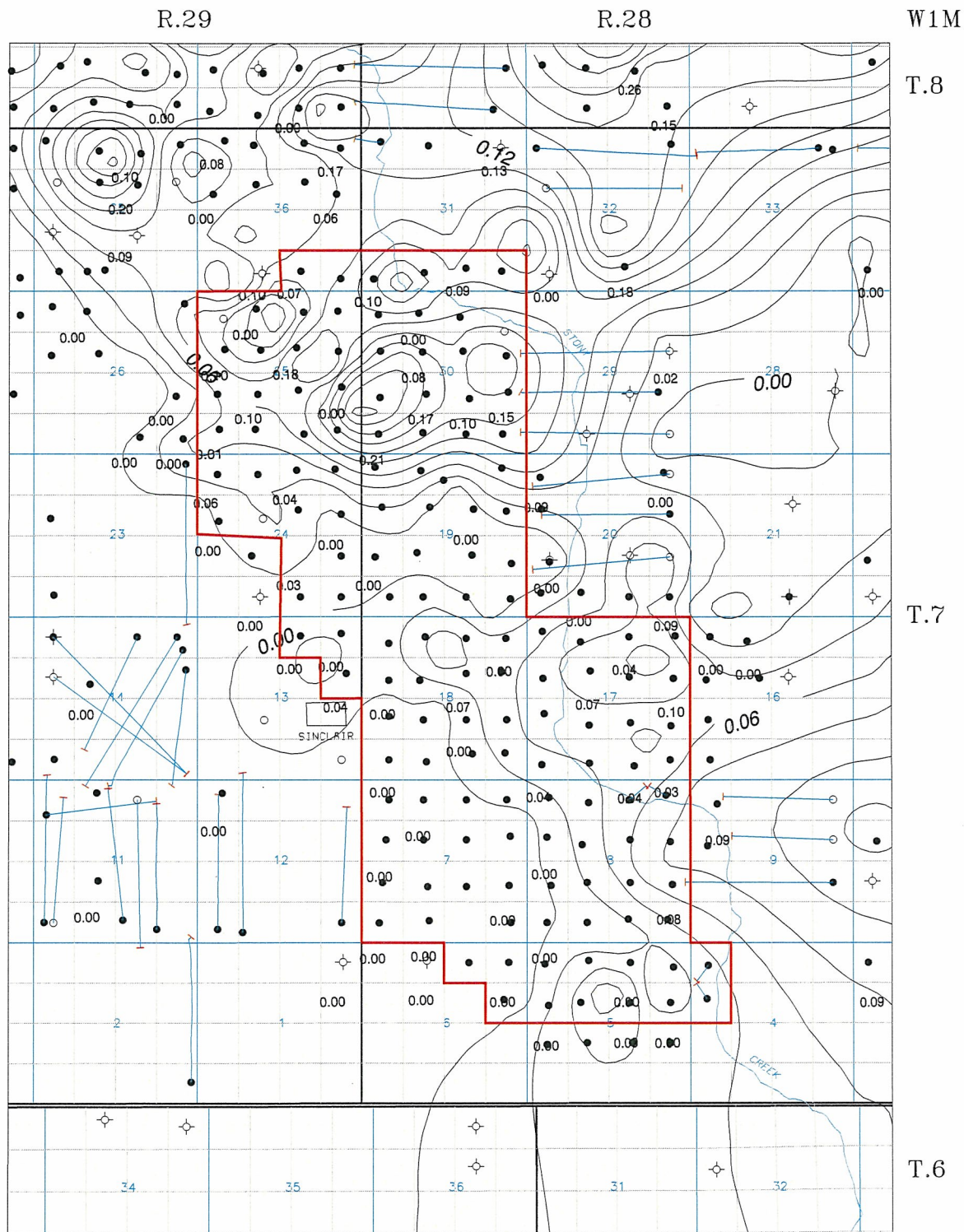
- SINCLAIR UNIT NO. 2 (PROPOSED)
0.80 Phi H (porosity X Thickness(m))
*

CONTOUR INTERVAL = 0.1 metres

Map 2
 Sinclair Unit No. 2 (Proposed)
 Lyleton Formation
 "B" Zone

Company: Tundra Oil & Gas Limited
 Property: Sinclair

Effective Date: April 1, 2009
 Scale: 1:65,000 s1099448/p01m02



LEGEND:

SINCLAIR UNIT NO. 2 (PROPOSED)

0.80 Φ H (porosity X Thickness(m))

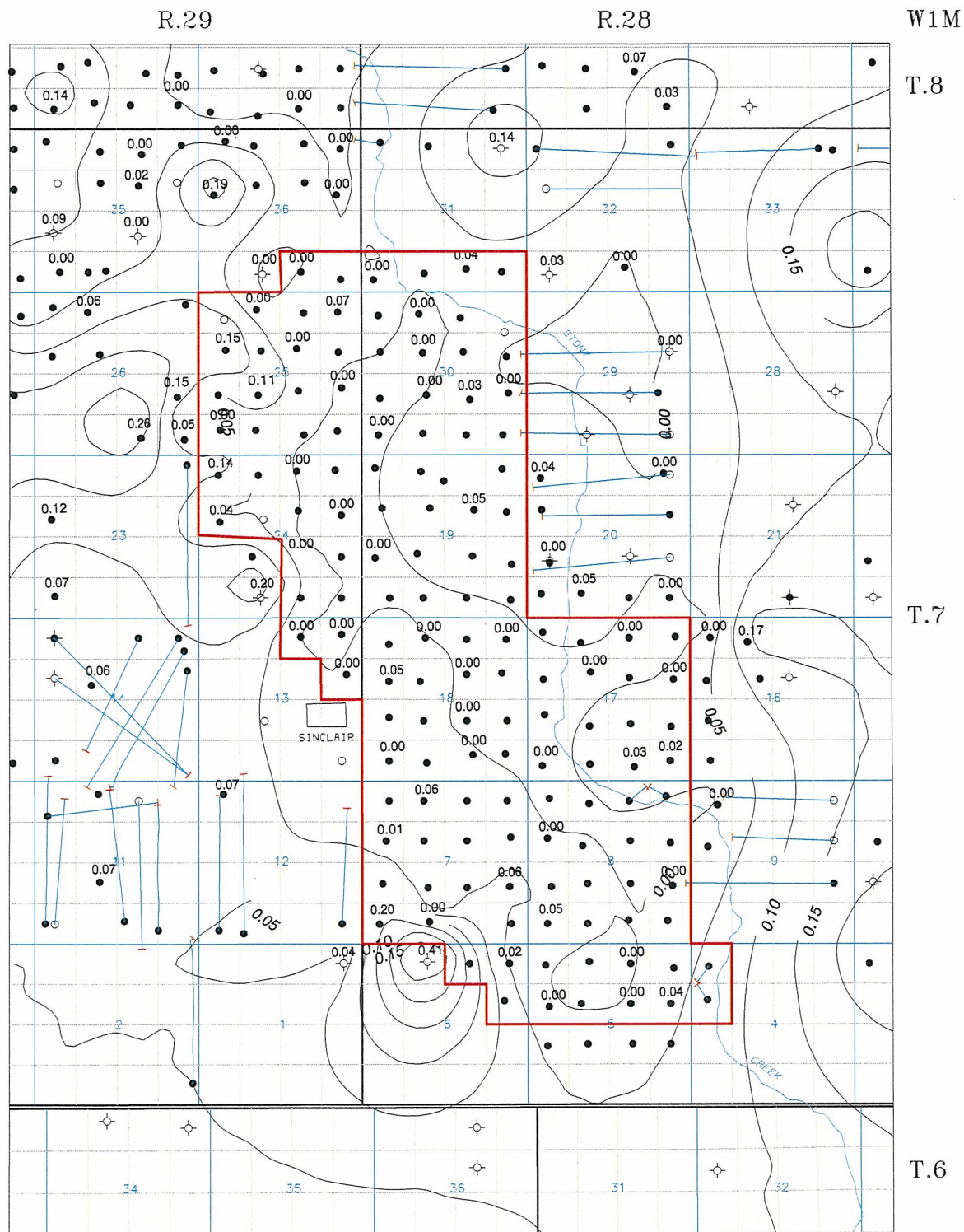
*

CONTOUR INTERVAL = 0.1 metres

Map 3
Sinclair Unit No. 2 (Proposed)
Mid Bakken Formation

Company: Tundra Oil & Gas Limited
Property: Sinclair

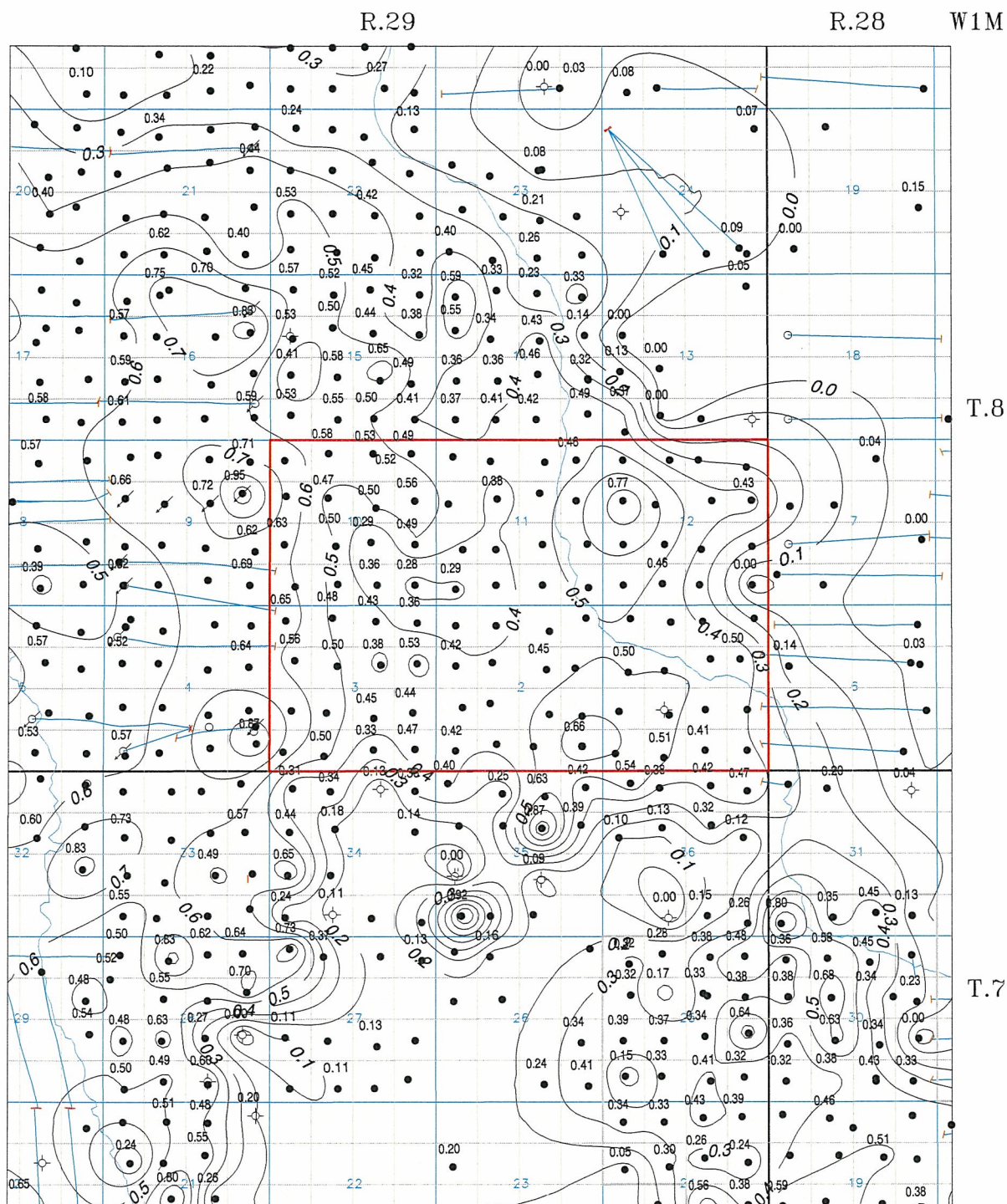
Effective Date: April 1, 2009
Scale: 1:65,000 s1099448/p01m03



Map 4
Sinclair Unit No. 3 (Proposed)
Lyleton Formation
"A" Zone

Company: Tundra Oil & Gas Limited
Property: Sinclair

Effective Date: April 1, 2009
Scale: 1:65,000 s1099448/p01m04



LEGEND:

SINCLAIR UNIT NO. 3 (PROPOSED)

0.80 ΦH (porosity X Thickness(m))

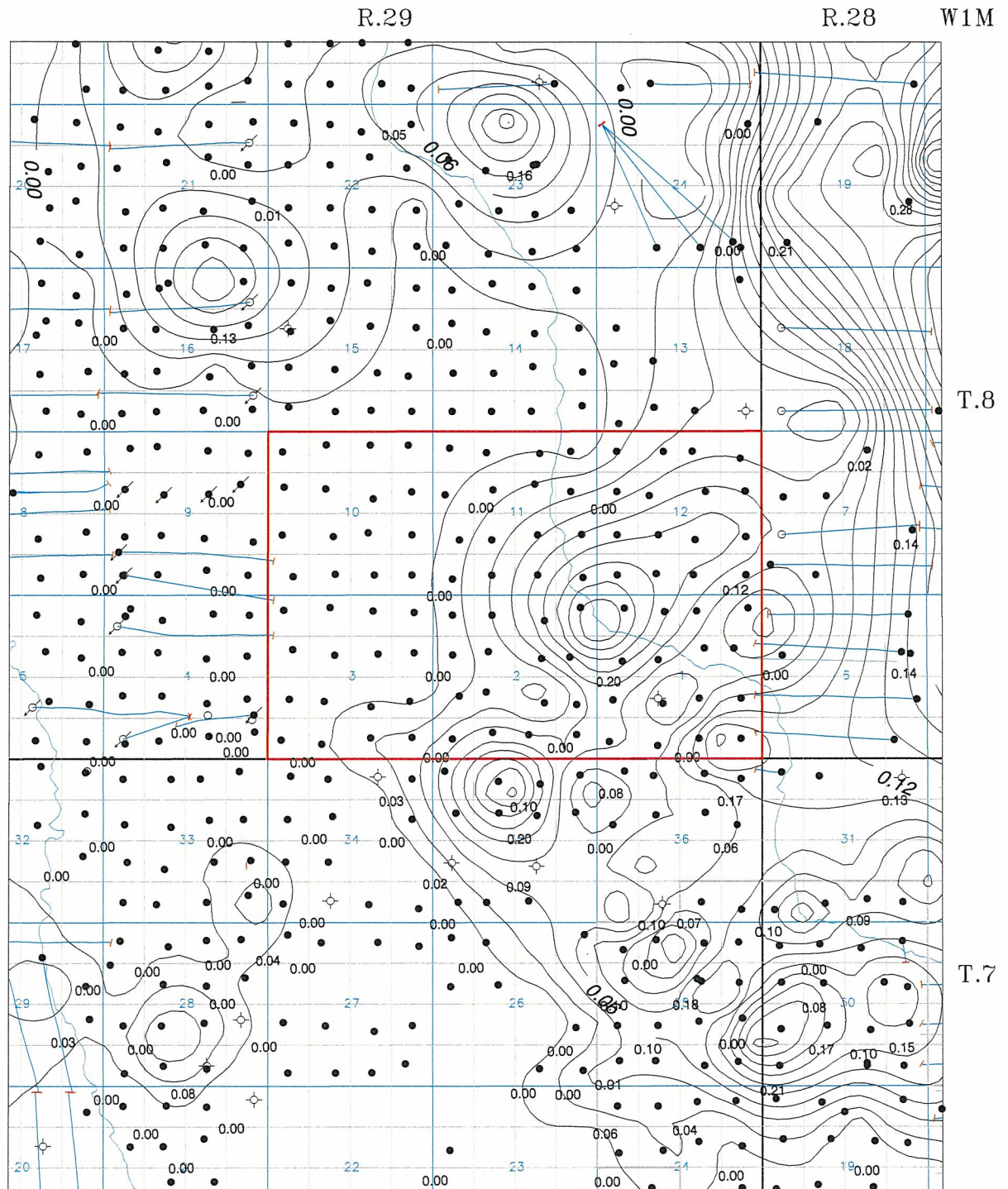
*

CONTOUR INTERVAL = 0.1 metres

Map 5
Sinclair Unit No. 3 (Proposed)
Lyleton Formation
"B" Zone

Company: Tundra Oil & Gas Limited
 Property: Sinclair

Effective Date: April 1, 2009
 Scale: 1:65,000 s1099448/p01m05



LEGEND:

SINCLAIR UNIT NO. 3 (PROPOSED)

0.80 Phi H (porosity X Thickness(m))



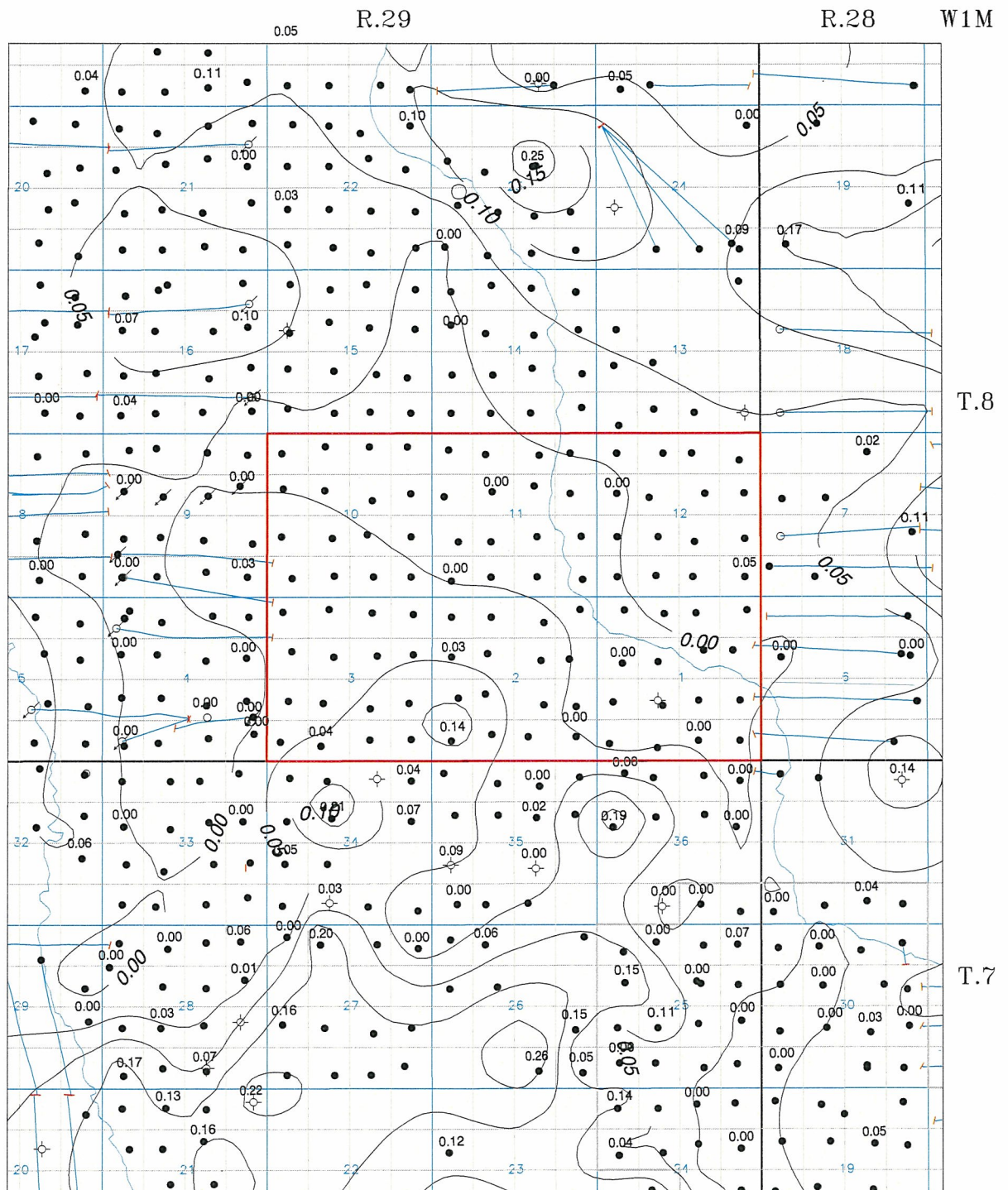
CONTOUR INTERVAL = 0.1 metres

Map 6
Sinclair Unit No. 3 (Proposed)
Mid Bakken Formation

Company: Tundra Oil & Gas Limited
Property: Sinclair

Effective Date: April 1, 2009

Scale: 1:65,000 s1099448/p01m06



LEGEND:

☐ SINCLAIR UNIT NO. 3 (PROPOSED)

0.80 Phi H (porosity X Thickness(m))

CONTOUR INTERVAL = 0.1 metres

Table 1
Sinclair Unit No. 2 (Proposed)
Original Oil-In-Place Calculation

UWI	Logs/Core Analysis	GLJ Planimetered Values - Lyleton A		TOGL Planimetered Values - Lyleton A		TOGL Planimetered Values - Lyleton B		TOGL Planimetered Values - Mid Bakken		Total OOIIP (all zones) Mbbl
		phi*h*a (Acre-ft)	OOIIP (Mbbl)	phi*h*a (Acre-ft)	OOIIP (Mbbl)	phi*h*a (Acre-ft)	OOIIP (Mbbl)	phi*h*a (Acre-ft)	OOIIP (Mbbl)	
00/12-04-007-28W1/0	L	34.72	145.5	3.07	12.9			9.22	38.6	197.0
00/13-04-007-28W1/0	L	44.24	185.4	5.01	21.0			7.82	32.8	239.2
		Section 04-007-28W1	331.0	Section 04-007-28W1	33.9	Section 04-007-28W1	71.4			436.25
00/09-05-007-28W1/0	CA	49.84	208.9	3.00	12.6			4.96	20.8	242.3
00/10-05-007-28W1/0	CA	79.00	331.1	9.73	40.8			2.43	10.2	382.1
00/11-05-007-28W1/0	L	56.16	235.4	6.40	26.8			1.58	6.6	268.8
00/12-05-007-28W1/0	CA	45.82	192.1	0.35	1.5			2.92	205.8	
00/13-05-007-28W1/0	L	60.59	254.0	0.06	0.3			2.67	11.2	265.4
00/14-05-007-28W1/0		66.66	279.4	1.71	7.2			1.52	6.4	292.9
00/15-05-007-28W1/0	CA	79.10	331.5	3.08	12.9			1.18	4.9	349.4
00/16-05-007-28W1/0	L	55.24	231.5	2.77	11.6			3.27	13.7	256.9
		Section 05-007-28W1	2063.9	Section 05-007-28W1	113.6	Section 05-007-28W1	86.1			2263.55
00/09-06-007-28W1/0	L	41.52	174.0	0.00	0.0			10.21	42.8	216.8
00/15-06-007-28W1/0	L	47.20	197.8	0.00	0.0			26.20	109.8	307.7
00/16-06-007-28W1/0	CA	68.07	285.3	0.00	0.0			7.40	31.0	316.3
		Section 06-007-28W1	657.2	Section 06-007-28W1	0.0	Section 06-007-28W1	183.6			840.81
00/01-07-007-28W1/0	L	74.21	311.0	0.00	0.0			7.41	31.1	342.1
00/02-07-007-28W1/0	L	65.07	272.7	0.00	0.0			10.67	44.7	317.5
00/03-07-007-28W1/0	CA	47.76	200.2	0.00	0.0			16.31	68.4	268.5
00/04-07-007-28W1/0	CA	25.90	108.6	0.00	0.0			20.74	86.9	195.5
00/05-07-007-28W1/0	L	34.19	143.3	0.00	0.0			9.01	37.8	181.1
00/06-07-007-28W1/0	L	52.80	221.3	0.00	0.0			3.71	15.6	236.9
00/07-07-007-28W1/0	L	66.57	279.0	0.00	0.0			3.53	14.8	293.8
00/08-07-007-28W1/0	CA	73.67	308.8	0.00	0.0			6.69	28.0	336.8
00/09-07-007-28W1/0	L	54.30	227.6	0.00	0.0			2.68	11.2	238.8
00/10-07-007-28W1/0	L	64.34	269.7	0.00	0.0			1.66	7.0	276.6
00/11-07-007-28W1/0	L	61.05	255.9	0.00	0.0			1.91	8.0	263.9
00/12-07-007-28W1/0	CA	39.71	166.4	0.00	0.0			4.50	18.9	185.3
00/13-07-007-28W1/0	L	40.88	171.3	0.00	0.0			2.27	9.5	180.9
00/14-07-007-28W1/0	CA	68.64	287.7	0.00	0.0			0.86	3.6	291.3
00/15-07-007-28W1/0	L	61.82	259.1	0.03	0.1			0.52	2.2	261.4
00/16-07-007-28W1/0	L	53.29	223.4	1.00	4.2			0.34	1.4	229.0
		Section 07-007-28W1	3706.1	Section 07-007-28W1	4.3	Section 07-007-28W1	389.0			4099.41
00/01-08-007-28W1/0	L	58.49	245.2	5.97	25.0			1.55	6.5	276.7
00/02-08-007-28W1/0	L	57.73	242.0	3.06	12.8			0.26	1.1	255.9
00/03-08-007-28W1/0	L	64.12	268.8	1.06	4.4			2.67	11.2	284.4
00/04-08-007-28W1/0	CA	81.34	340.9	0.00	0.0			6.02	25.2	366.2
00/05-08-007-28W1/0	L	73.81	309.4	0.07	0.3			5.00	21.0	330.6
00/06-08-007-28W1/0	L	49.79	208.7	2.41	10.1			1.55	6.5	225.3
00/07-08-007-28W1/0	L	50.36	211.1	5.96	25.0			0.02	0.1	236.1
00/08-08-007-28W1/0	CA	64.05	268.5	9.84	41.2			0.48	2.0	311.7
00/09-08-007-28W1/0	L	47.64	199.7	9.18	38.5			0.02	0.1	238.2
00/10-08-007-28W1/0	L	49.63	208.0	6.08	25.5			0.00	0.0	233.5
00/11-08-007-28W1/0	L	53.23	223.1	3.05	12.8			0.06	0.3	236.1
00/12-08-007-28W1/0	CA	83.45	349.8	0.32	1.3			0.85	3.6	354.7
00/13-08-007-28W1/0		70.75	296.5	2.79	11.7			0.00	0.0	308.2
00/14-08-007-28W1/0	L	64.18	269.0	4.39	18.4			0.03	0.1	287.5

Table 1
Sinclair Unit No. 2 (Proposed)
Original Oil-In-Place Calculation

UWI	Logs/Core Analysis	GLJ Planimetered Values - Lyleton A		TOGL Planimetered Values - Lyleton B		TOGL Planimetered Values - Mid Bakken		Total OOIP (all zones) Mbbl
		phi*h*a (Acre-ft)	OOIP (Mbbl)	phi*h*a (Acre-ft)	OOIP (Mbbl)	phi*h*a (Acre-ft)	OOIP (Mbbl)	
00/15-08-007-28W1/0	L	65.08	272.8	5.71	23.9	0.10	0.4	297.1
00/16-08-007-28W1/0	L	51.05	214.0	7.41	31.1	0.09	0.4	245.4
		Section 08-007-28W1	4127.3	Section 08-007-28W1	282.1	Section 08-007-28W1	78.4	4487.79
00/01-17-007-28W1/0	CA	41.72	174.9	6.56	27.5	0.85	3.6	205.9
00/02-17-007-28W1/0	CA	84.53	354.3	6.19	25.9	0.23	1.0	381.2
00/03-17-007-28W1/0	L	75.19	315.2	6.33	26.5	0.06	0.3	341.9
00/04-17-007-28W1/0	CA	66.02	276.7	5.52	23.1	0.00	0.0	299.9
00/05-17-007-28W1/0		66.35	278.1	6.36	26.7	0.00	0.0	304.8
00/06-17-007-28W1/0		69.90	293.0	8.16	34.2	0.01	0.0	327.2
00/07-17-007-28W1/0	L	54.02	226.4	9.04	37.9	0.19	0.8	265.1
00/08-17-007-28W1/0	L	20.97	87.9	9.51	39.9	1.51	6.3	134.1
00/09-17-007-28W1/0	CA	51.84	217.3	12.94	54.2	0.40	1.7	273.2
00/10-17-007-28W1/0	L	65.50	274.5	11.07	46.4	0.00	0.0	320.9
00/11-17-007-28W1/0	CA	69.77	292.4	8.44	35.4	0.00	0.0	327.8
00/12-17-007-28W1/0		67.36	282.3	5.34	22.4	0.00	0.0	304.7
00/13-17-007-28W1/0	L	62.00	259.9	2.10	8.8	0.03	0.1	268.8
00/14-17-007-28W1/0	L	59.94	251.2	5.01	21.0	0.08	0.3	272.6
00/15-17-007-28W1/0	CA	61.18	256.4	6.65	27.9	0.02	0.1	284.4
00/16-17-007-28W1/0	L	50.28	210.7	8.16	34.2	0.00	0.0	244.9
		Section 17-007-28W1	4051.3	Section 17-007-28W1	492.0	Section 17-007-28W1	14.2	4557.49
00/01-18-007-28W1/0	L	54.02	226.4	2.76	11.6	0.00	0.0	238.0
00/02-18-007-28W1/0	CA	52.26	219.0	0.23	1.0	0.04	0.2	220.2
00/03-18-007-28W1/0	L	51.88	217.5	0.00	0.0	0.27	1.1	218.6
00/04-18-007-28W1/0	CA	33.92	142.2	0.01	0.0	1.06	4.4	146.7
00/05-18-007-28W1/0	L	42.43	177.8	0.73	3.1	0.31	1.3	182.2
00/06-18-007-28W1/0	L	44.15	185.1	0.51	2.1	0.04	0.2	187.4
00/07-18-007-28W1/0	CA	65.51	274.6	1.42	6.0	0.00	0.0	280.5
00/08-18-007-28W1/0	L	60.77	254.7	3.72	15.6	0.00	0.0	270.3
00/09-18-007-28W1/0	L	62.10	260.3	4.18	17.5	0.00	0.0	277.8
00/10-18-007-28W1/0	CA	49.15	206.0	6.12	25.7	0.00	0.0	231.7
00/11-18-007-28W1/0	L	43.68	183.1	3.27	13.7	0.02	0.1	196.9
00/12-18-007-28W1/0	CA	49.39	207.0	2.68	11.2	0.10	0.4	218.7
00/13-18-007-28W1/0	L	64.78	271.5	0.79	3.3	0.07	0.3	275.1
00/14-18-007-28W1/0	L	52.52	220.1	2.22	9.3	0.01	0.0	229.5
00/15-18-007-28W1/0	L	53.50	224.2	3.05	12.8	0.00	0.0	237.0
00/16-18-007-28W1/0	CA	77.01	322.8	0.97	4.1	0.00	0.0	326.8
		Section 18-007-28W1	3592.4	Section 18-007-28W1	136.9	Section 18-007-28W1	8.0	3737.31
00/01-19-007-28W1/0		65.65	275.2	0.00	0.0	0.02	0.1	275.3
00/02-19-007-28W1/0	L	64.50	270.3	0.13	0.5	0.03	0.1	271.0
00/03-19-007-28W1/0	L	70.03	293.5	0.19	0.8	0.02	0.1	294.4
00/04-19-007-28W1/0		75.79	317.7	0.00	0.0	0.00	0.0	317.7
00/05-19-007-28W1/0	CA	74.81	313.6	0.33	1.4	0.02	0.1	315.0
00/06-19-007-28W1/0		75.84	317.9	0.42	1.8	0.29	1.2	320.9
00/07-19-007-28W1/0		64.69	271.1	0.00	0.0	0.24	1.0	272.2
00/08-19-007-28W1/0	L	57.92	242.8	0.07	0.3	0.08	0.3	243.4
00/09-19-007-28W1/0		63.20	264.9	2.78	11.7	0.16	0.7	277.2
00/10-19-007-28W1/0	CA	65.77	275.7	1.28	5.4	0.41	1.7	282.8

Table 1
Sinclair Unit No. 2 (Proposed)
Original Oil-In-Place Calculation

UWI	Logs/Core Analysis	GLJ Planimetered Values - Lyleton A phi*h*a (Acre-ft)	OOIP (Mbbbl)	TOGL Planimetered Values - Lyleton A phi*h*a (Acre-ft)	OOIP (Mbbbl)	TOGL Planimetered Values - Lyleton B phi*h*a (Acre-ft)	OOIP (Mbbbl)	TOGL Planimetered Values - Mid Bakken phi*h*a (Acre-ft)	OOIP (Mbbbl)	Total OOIP (all zones) Mbbbl
00/11-19-007-28W1/0		69.39	290.8	4.57	19.2	0.56	2.3	312.3		
00/12-19-007-28W1/0		58.90	246.9	4.72	19.8	0.12	0.5	267.2		
00/13-19-007-28W1/0		51.85	217.3	15.93	66.8	0.10	0.4	284.5		
00/14-19-007-28W1/0	L	63.42	265.8	13.21	55.4	0.54	2.3	323.5		
00/15-19-007-28W1/0		63.01	264.1	8.75	36.7	0.44	1.8	302.6		
00/16-19-007-28W1/0		62.04	260.0	9.65	40.4	0.22	0.9	301.4		
		Section 19-007-28W1	4387.7	Section 19-007-28W1	260.0	Section 19-007-28W1	13.6	4661.27		
00/01-30-007-28W1/0	L	42.02	176.1	16.35	68.5	0.20	0.8	245.5		
00/02-30-007-28W1/0	L	56.36	236.2	17.31	72.6	0.33	1.4	310.2		
00/03-30-007-28W1/0	L	59.24	248.3	24.95	104.6	0.29	1.2	354.1		
00/04-30-007-28W1/0	CA	49.90	209.2	27.39	114.8	0.02	0.1	324.0		
00/05-30-007-28W1/0	L	59.81	250.7	18.93	79.3	0.00	0.0	330.0		
00/06-30-007-28W1/0	CA	79.90	334.9	24.14	101.2	0.03	0.1	436.2		
00/07-30-007-28W1/0	CA	49.78	208.7	18.68	78.3	0.13	0.5	287.5		
00/08-30-007-28W1/0	CA	13.20	55.3	19.97	83.7	0.04	0.2	139.2		
00/09-30-007-28W1/0	L	27.35	114.6	12.93	54.2	0.19	0.8	169.6		
00/10-30-007-28W1/0	L	49.06	205.6	11.08	46.4	0.14	0.6	252.7		
00/11-30-007-28W1/0	CA	80.68	338.2	12.18	51.1	0.00	0.0	389.2		
00/12-30-007-28W1/0	L	58.57	245.5	9.70	40.7	0.82	3.4	289.6		
00/13-30-007-28W1/0	L	64.82	271.7	8.29	34.7	2.72	11.4	317.8		
00/14-30-007-28W1/0	CA	75.97	318.4	4.07	17.1	0.13	0.5	336.0		
00/15-30-007-28W1/0	L	54.67	229.1	7.46	31.3	0.97	4.1	264.5		
00/16-30-007-28W1/0		28.15	118.0	7.85	32.9	1.60	6.7	157.6		
		Section 30-007-28W1	3560.6	Section 30-007-28W1	1011.3	Section 30-007-28W1	31.9	4603.77		
00/01-31-007-28W1/0	L	20.01	83.9	7.06	29.6	4.79	20.1	133.5		
00/02-31-007-28W1/0	CA	53.25	223.2	9.93	41.6	3.79	15.9	280.7		
00/03-31-007-28W1/0	L	60.13	252.0	9.18	38.5	2.27	9.5	300.0		
00/04-31-007-28W1/0	CA	89.72	376.1	11.68	49.0	2.83	11.9	436.9		
		Section 31-007-28W1	935.2	Section 31-007-28W1	158.6	Section 31-007-28W1	57.3	1151.14		
00/09-13-007-29W1/0	CA	50.42	211.3	3.93	16.5	0.13	0.5	228.4		
00/15-13-007-29W1/0	CA	54.26	227.4	0.62	2.6	2.67	11.2	241.2		
00/16-13-007-29W1/0	CA	65.64	275.1	1.08	4.5	0.01	0.0	279.7		
		Section 13-007-29W1	713.9	Section 13-007-29W1	23.6	Section 13-007-29W1	11.8	749.26		
00/01-24-007-29W1/0	L	70.93	297.3	0.01	0.0	0.35	1.5	298.8		
00/02-24-007-29W1/0	L	58.17	243.8	0.28	1.2	7.18	30.1	275.1		
00/07-24-007-29W1/0	CA	61.72	258.7	2.49	10.4	2.64	11.1	280.2		
00/08-24-007-29W1/0	L	58.14	243.7	0.30	1.3	0.02	0.1	245.0		
00/09-24-007-29W1/0	CA	38.77	162.5	1.94	8.1	0.00	0.0	170.6		
00/10-24-007-29W1/0	L	38.97	163.3	2.74	11.5	0.52	2.2	177.0		
00/11-24-007-29W1/0	L	36.21	151.8	2.84	11.9	5.41	22.7	186.4		
00/12-24-007-29W1/0	CA	18.57	77.8	1.26	5.3	9.97	41.8	124.9		
00/13-24-007-29W1/0	CA	40.97	171.7	4.95	20.7	13.25	55.5	248.0		
00/14-24-007-29W1/0	L	45.12	189.1	5.11	21.4	6.63	27.8	238.3		
00/15-24-007-29W1/0	CA	50.18	210.3	5.37	22.5	0.43	1.8	234.6		
00/16-24-007-29W1/0	L	46.62	195.4	8.52	35.7	0.00	0.0	231.1		
		Section 24-007-29W1	2365.5	Section 24-007-29W1	150.1	Section 24-007-29W1	194.5	2710.11		
00/01-25-007-29W1/0	L	49.25	206.4	13.97	58.6	0.02	0.1	265.1		

Table 1
Sinclair Unit No. 2 (Proposed)
Original Oil-In-Place Calculation

UWI	Logs/Core Analysis	GLJ Planimetered Values - Lyleton A phi*h*a (Acre-ft)	OOIP (Mbbbl)	TOGL Planimetered Values - Lyleton A phi*h*a (Acre-ft)	OOIP (Mbbbl)	TOGL Planimetered Values - Lyleton B OOIP (Mbbbl)	TOGL Planimetered Values - Mid Bakken phi*h*a (Acre-ft)	OOIP (Mbbbl)	Total OOIP (all zones) Mbbbl
00/02-25-007-29W1/0	L	54.35	227.8	8.66	36.3	1.94	8.1	272.2	
00/03-25-007-29W1/0		47.86	200.6	7.22	30.3	6.60	27.7	258.5	
00/04-25-007-29W1/0	CA	37.78	158.4	3.34	14.0	9.33	39.1	211.5	
00/05-25-007-29W1/0	L	45.75	191.8	6.41	26.9	12.65	53.0	271.6	
00/06-25-007-29W1/0	CA	47.87	200.6	12.79	53.6	10.37	43.5	297.7	
00/07-25-007-29W1/0	L	53.28	223.3	11.96	50.1	4.45	18.7	292.1	
00/08-25-007-29W1/0	CA	67.52	283.0	9.14	38.3	0.34	1.4	322.7	
00/09-25-007-29W1/0	L	54.98	230.4	10.66	44.7	2.96	12.4	287.5	
00/10-25-007-29W1/0	CA	45.75	191.8	19.64	82.3	4.29	18.0	292.1	
00/11-25-007-29W1/0	L	39.87	167.1	15.66	65.6	9.74	40.8	273.6	
00/12-25-007-29W1/0	L	44.07	184.7	9.67	40.5	16.26	68.2	293.4	
00/13-25-007-29W1/0	L	37.33	156.5	6.56	27.5	11.21	47.0	230.9	
00/14-25-007-29W1/0	CA	36.10	151.3	7.57	31.7	2.86	12.0	195.0	
00/15-25-007-29W1/0	L	44.07	184.7	13.90	58.3	2.93	12.3	255.3	
00/16-25-007-29W1/0		55.50	232.6	11.76	49.3	6.87	28.8	310.7	
		Section 25-007-29W1	3191.1	Section 25-007-29W1	708.0	Section 25-007-29W1	431.0	4330.02	
		46.35	194.3	11.25	47.2	3.27	13.7	255.1	
00/01-36-007-29W1/0	L	20.15	84.5	10.06	42.2	0.59	2.5	129.1	
00/02-36-007-29W1/0	CA		278.7	Section 36-007-29W1	89.3	Section 36-007-29W1	16.2	384.23	
		Total OOIP (Mbbbl) =	33961.8	Total OOIP (Mbbbl) =	3463.7	Total OOIP (Mbbbl) =	1587.0	39012.4	
		Avg SW (%) =	0.45	Avg SW (%) =	0.45	Avg SW (%) =	0.45		

Table 2
Sinclair Unit No. 3 (Proposed)
Original Oil-In-Place Calculation

UWI	Logs/Core Analysis	GLJ Planimetered Values - Lyleton A		TOGL Planimetered Values - Lyleton A		OOIP (Mbbbl)		TOGL Planimetered Values - Lyleton B		OOIP (Mbbbl)		TOGL Planimetered Values - Mid Bakken		Total OOIP (all zones) Mbbbl
		phi* ^h *a (Acre-ft)	OOIP (Mbbbl)	phi* ^h *a (Acre-ft)	OOIP (Mbbbl)	phi* ^h *a (Acre-ft)	OOIP (Mbbbl)	phi* ^h *a (Acre-ft)	OOIP (Mbbbl)	phi* ^h *a (Acre-ft)	OOIP (Mbbbl)	phi* ^h *a (Acre-ft)	OOIP (Mbbbl)	
00/01-01-008-29W1/0		57.17	261.4	11.16	51.0	0.03	0.1							312.6
00/02-01-008-29W1/0	CA	64.42	294.6	4.07	18.6									313.2
00/03-01-008-29W1/0	L	72.32	330.7	7.53	34.4	0.02	0.1							365.2
00/04-01-008-29W1/0		80.32	367.3	9.24	42.2	0.00	0.0							409.5
00/05-01-008-29W1/0		78.68	359.8	18.40	84.1	0.00	0.0							443.9
02/06-01-008-29W1/0		72.82	333.0	15.10	69.0	0.00	0.0							402.0
00/07-01-008-29W1/0		66.80	305.4	7.29	33.3	0.00	0.0							338.8
00/08-01-008-29W1/0		54.91	251.1	5.80	26.5	0.00	0.0							277.6
00/09-01-008-29W1/0	L	55.48	253.7	7.11	32.5	0.04	0.2							286.4
00/10-01-008-29W1/0		64.20	293.6	13.57	62.0	0.02	0.1							355.7
00/11-01-008-29W1/0		67.49	308.6	21.28	97.3	0.00	0.0							405.9
00/12-01-008-29W1/0	CA	68.19	311.8	25.17	115.1	0.00	0.0							426.9
00/13-01-008-29W1/0		67.55	308.9	21.25	97.2	0.01	0.0							406.1
00/14-01-008-29W1/0		62.87	287.5	20.28	92.7	0.29	1.3							381.5
00/15-01-008-29W1/0		51.56	235.8	16.34	74.7	0.66	3.0							313.5
00/16-01-008-29W1/0		33.31	152.3	11.92	54.5	0.93	4.3							211.1
		Section 01-008-29W1		Section 01-008-29W1		Section 01-008-29W1		Section 01-008-29W1		Section 01-008-29W1		Section 01-008-29W1		5649.8
00/01-02-008-29W1/0	CA	82.49	377.2	4.59	21.0	0.27	1.2							399.4
00/02-02-008-29W1/0		71.02	324.7	4.94	22.6	3.05	13.9							361.3
00/03-02-008-29W1/0		58.49	267.4	4.26	19.5	9.40	43.0							329.9
00/04-02-008-29W1/0	CA	59.19	270.6	1.14	5.2	16.04	73.3							349.2
00/05-02-008-29W1/0		61.52	281.3	0.07	0.3	11.33	51.8							333.4
00/06-02-008-29W1/0		64.27	293.9	2.37	10.8	7.78	35.6							340.3
00/07-02-008-29W1/0		69.42	317.4	4.61	21.1	2.75	12.6							351.1
00/08-02-008-29W1/0		78.15	357.3	9.12	41.7	0.13	0.6							399.6
00/09-02-008-29W1/0		65.43	299.2	16.82	76.9	0.12	0.5							376.6
00/10-02-008-29W1/0	L	59.37	271.5	7.58	34.7	1.47	6.7							312.9
00/11-02-008-29W1/0		57.94	264.9	2.88	13.2	3.37	15.4							293.5
00/12-02-008-29W1/0	CA	56.60	258.8	0.11	0.5	4.49	20.5							279.8
00/13-02-008-29W1/0		49.01	224.1	0.16	0.7	1.15	5.3							230.1
00/14-02-008-29W1/0		51.89	237.3	3.09	14.1	0.81	3.7							255.1
00/15-02-008-29W1/0		57.12	261.2	7.56	34.6	0.26	1.2							296.9
00/16-02-008-29W1/0		63.64	291.0	15.49	70.8	0.00	0.0							361.8
		Section 02-008-29W1		Section 02-008-29W1		Section 02-008-29W1		Section 02-008-29W1		Section 02-008-29W1		Section 02-008-29W1		5271.0
00/01-03-008-29W1/0	L	54.31	248.3	0.56	2.6	11.81	54.0							304.9
00/02-03-008-29W1/0	L	47.98	219.4	0.12	0.5	9.03	41.3							261.2
00/03-03-008-29W1/0	CA	67.52	308.7	0.00	0.0	7.15	32.7							341.4
00/04-03-008-29W1/0		89.29	408.3	0.00	0.0	3.95	18.1							426.3
00/05-03-008-29W1/0		93.76	428.7	0.00	0.0	1.39	6.4							435.1
00/06-03-008-29W1/0		75.64	345.9	0.00	0.0	4.12	18.8							364.7
00/07-03-008-29W1/0	L	59.24	270.9	0.00	0.0	6.72	30.7							301.6
00/08-03-008-29W1/0	L	57.05	260.9	0.00	0.0	9.64	44.1							304.9
00/09-03-008-29W1/0	L	52.48	240.0	0.00	0.0	4.95	22.6							262.6
00/10-03-008-29W1/0	CA	53.73	245.7	0.00	0.0	3.91	17.9							263.6
00/11-03-008-29W1/0	L	69.91	319.7	0.00	0.0	2.61	11.9							331.6
00/12-03-008-29W1/0	L	81.11	370.9	0.00	0.0	1.06	4.8							375.7
00/13-03-008-29W1/0	L	82.52	377.3	0.00	0.0	1.94	8.9							386.2

Table 2
Sinclair Unit No. 3 (Proposed)
Original Oil-In-Place Calculation

UWI	Logs/Core Analysis	GLJ Planimetered Values - Lyleton A		TOGL Planimetered Values - Lyleton B		TOGL Planimetered Values - Mid Bakken		Total OOIP (all zones) Mbbl
		phi*h*a (Acre-ft)	OOIP (Mbbl)	phi*h*a (Acre-ft)	OOIP (Mbbl)	phi*h*a (Acre-ft)	OOIP (Mbbl)	
00/14-03-008-29W1/0	L	67.37	308.0	0.00	0.0	1.99	9.1	317.1
00/15-03-008-29W1/0	L	54.00	246.9	0.00	0.0	2.01	9.2	256.1
00/16-03-008-29W1/0	L	48.46	221.6	0.00	0.0	1.71	7.8	229.4
		Section 03-008-29W1	4821.1	Section 03-008-29W1	3.1	Section 03-008-29W1	338.3	5162.5
00/01-10-008-29W1/0	L	41.82	191.2	0.00	0.0	0.23	1.1	192.3
00/02-10-008-29W1/0	L	50.48	230.8	0.00	0.0	0.79	3.6	234.4
00/03-10-008-29W1/0	L	66.52	304.2	0.00	0.0	1.57	7.2	311.3
00/04-10-008-29W1/0	L	85.21	389.6	0.00	0.0	2.75	12.6	402.2
00/05-10-008-29W1/0	L	86.15	393.9	0.00	0.0	1.60	7.3	401.2
00/06-10-008-29W1/0	L	65.77	300.7	0.00	0.0	0.54	2.5	303.2
00/07-10-008-29W1/0	L	53.04	242.5	0.00	0.0	0.08	0.4	242.9
00/08-10-008-29W1/0	CA	60.36	276.0	0.00	0.0	0.00	0.0	276.0
00/09-10-008-29W1/0	L	70.82	323.8	0.00	0.0	0.00	0.0	323.8
00/10-10-008-29W1/0	L	65.39	299.0	0.00	0.0	0.00	0.0	299.0
00/11-10-008-29W1/0	L	66.71	305.0	0.00	0.0	0.00	0.0	305.0
00/12-10-008-29W1/0	L	88.77	405.9	0.00	0.0	0.06	0.3	406.2
00/13-10-008-29W1/0	L	86.25	394.4	0.01	0.2	0.00	0.0	394.4
00/14-10-008-29W1/0	L	73.27	335.0	0.05	0.2	0.00	0.0	335.3
00/15-10-008-29W1/0	L	67.60	309.1	0.00	0.0	0.00	0.0	309.1
00/16-10-008-29W1/0	L	63.97	292.5	0.00	0.0	0.00	0.0	292.5
		Section 10-008-29W1	4993.8	Section 10-008-29W1	0.3	Section 10-008-29W1	34.8	5028.9
00/01-11-008-29W1/0	L	70.12	320.6	10.29	47.1	0.00	0.0	367.7
00/02-11-008-29W1/0	L	60.91	278.5	5.63	25.7	0.00	0.0	304.3
00/03-11-008-29W1/0	L	51.75	236.6	2.47	11.3	0.00	0.0	247.9
00/04-11-008-29W1/0	CA	43.23	197.7	0.08	0.4	0.01	0.0	198.1
00/05-11-008-29W1/0	L	57.58	263.3	0.00	0.0	0.00	0.0	263.3
00/06-11-008-29W1/0	L	55.57	254.1	0.81	3.7	0.00	0.0	257.8
00/07-11-008-29W1/0	L	63.80	291.7	2.85	13.0	0.00	0.0	304.8
00/08-11-008-29W1/0	L	78.67	359.7	4.37	20.0	0.00	0.0	379.7
00/09-11-008-29W1/0	L	76.80	351.2	0.61	2.8	0.00	0.0	354.0
00/10-11-008-29W1/0	L	59.96	274.2	0.24	1.1	0.00	0.0	275.3
00/11-11-008-29W1/0	CA	54.07	247.2	0.01	0.0	0.00	0.0	247.3
00/12-11-008-29W1/0	L	62.26	284.7	0.00	0.0	0.00	0.0	284.7
00/13-11-008-29W1/0	L	58.51	267.5	0.00	0.0	0.00	0.0	267.5
00/14-11-008-29W1/0	L	54.94	251.2	0.00	0.0	0.00	0.0	251.2
00/15-11-008-29W1/0	L	57.07	261.0	0.00	0.0	0.15	0.7	261.6
00/16-11-008-29W1/0	L	65.45	299.3	0.00	0.0	0.57	2.6	301.9
		Section 11-008-29W1	4438.5	Section 11-008-29W1	125.1	Section 11-008-29W1	3.3	4566.9
00/01-12-008-29W1/0	CA	11.10	50.8	16.69	76.3	2.16	9.9	136.9
00/02-12-008-29W1/0	L	42.62	194.9	16.92	77.4	1.31	6.0	278.2
00/03-12-008-29W1/0	L	64.88	296.7	16.96	77.5	0.61	2.8	377.0
00/04-12-008-29W1/0	L	75.27	344.2	15.25	69.7	0.04	0.2	414.1
00/05-12-008-29W1/0	L	90.13	412.1	6.73	30.8	0.03	0.1	443.0
00/06-12-008-29W1/0	L	76.18	348.3	9.95	45.5	0.78	3.6	397.4
00/07-12-008-29W1/0	L	52.07	238.1	13.22	60.4	1.87	8.6	307.1
00/08-12-008-29W1/0	L	32.84	150.2	14.56	66.6	3.06	14.0	230.7
00/09-12-008-29W1/0	L	50.76	232.1	7.96	36.4	3.82	17.5	286.0

Table 2
Sinclair Unit No. 3 (Proposed)
Original Oil-In-Place Calculation

UWI	Logs/Core Analysis	GLJ Planimetered Values - Lyleton A		TOGL Planimetered Values - Lyleton B		TOGL Planimetered Values - Mid Bakken		Total OOIP (all zones) Mbbl
		phi*h*a (Acre-ft)	OOIP (Mbbl)	phi*h*a (Acre-ft)	OOIP (Mbbl)	phi*h*a (Acre-ft)	OOIP (Mbbl)	
00/10-12-008-29W1/0		56.18	256.9	6.61	30.2	2.62	12.0	299.1
00/11-12-008-29W1/0		76.58	350.2	4.19	19.2	1.21	5.5	374.9
00/12-12-008-29W1/0	CA	95.09	434.8	1.14	5.2	0.10	0.5	440.5
00/13-12-008-29W1/0		71.18	325.5	0.04	0.2	1.28	5.9	331.5
00/14-12-008-29W1/0		52.03	237.9	2.07	9.5	2.67	12.2	259.6
00/15-12-008-29W1/0		38.15	174.4	4.55	20.8	4.10	18.7	214.0
00/16-12-008-29W1/0		35.34	161.6	5.45	24.9	5.11	23.4	209.9
Section 12-008-29W1			4208.5	Section 12-008-29W1	650.6	Section 12-008-29W1	140.7	4999.8
Total OOIP (Mbbl) =		27714.9		2152.2		Total OOIP (Mbbl) =		30676.9
Avg SW (%) =		0.40		0.40		Avg SW (%) =		0.40