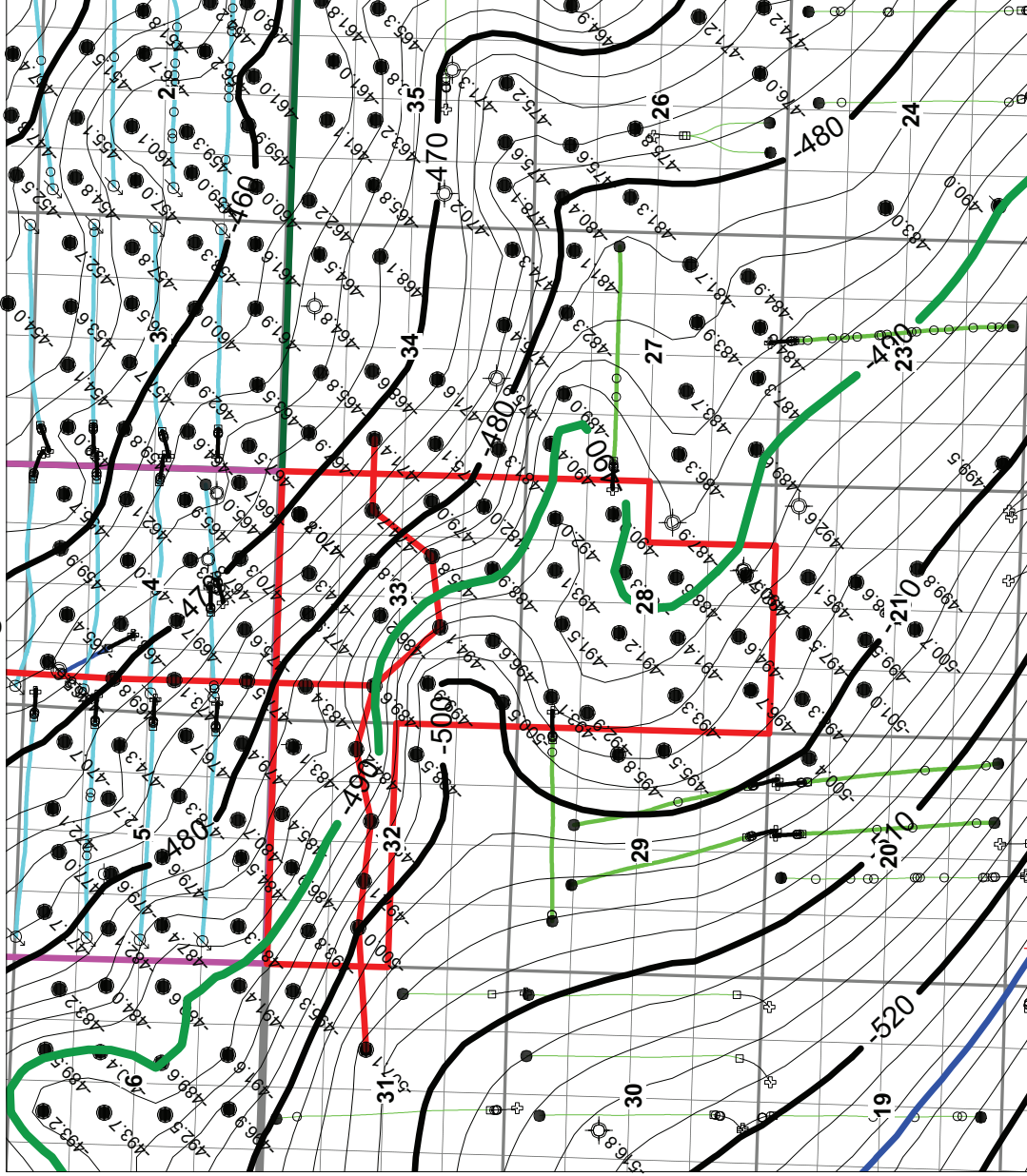


Rge 29W1M

Twp 8

Twp 7



Cl=2 m



- Cross section
- Unit 1 Boundary
- Unit 3 Boundary
- Asdrilled Lodgepole Hz well
- Asdrilled Hz well
- Hz well location
- Asdrilled WW
- Proposed Hz WW
- Unit 8 Boundary
- Top of Transition zone (est.)
- Top of OW contact (est.)
- Oilwell (including producing Hz wells)
- ✦ Abnd Oilwell
- ✦ Hz Surface
- ✦ Intermediate Casing
- Top in Hz wellbore
- ✦ Injector
- Location
- ✦ Dry and Abandoned Well

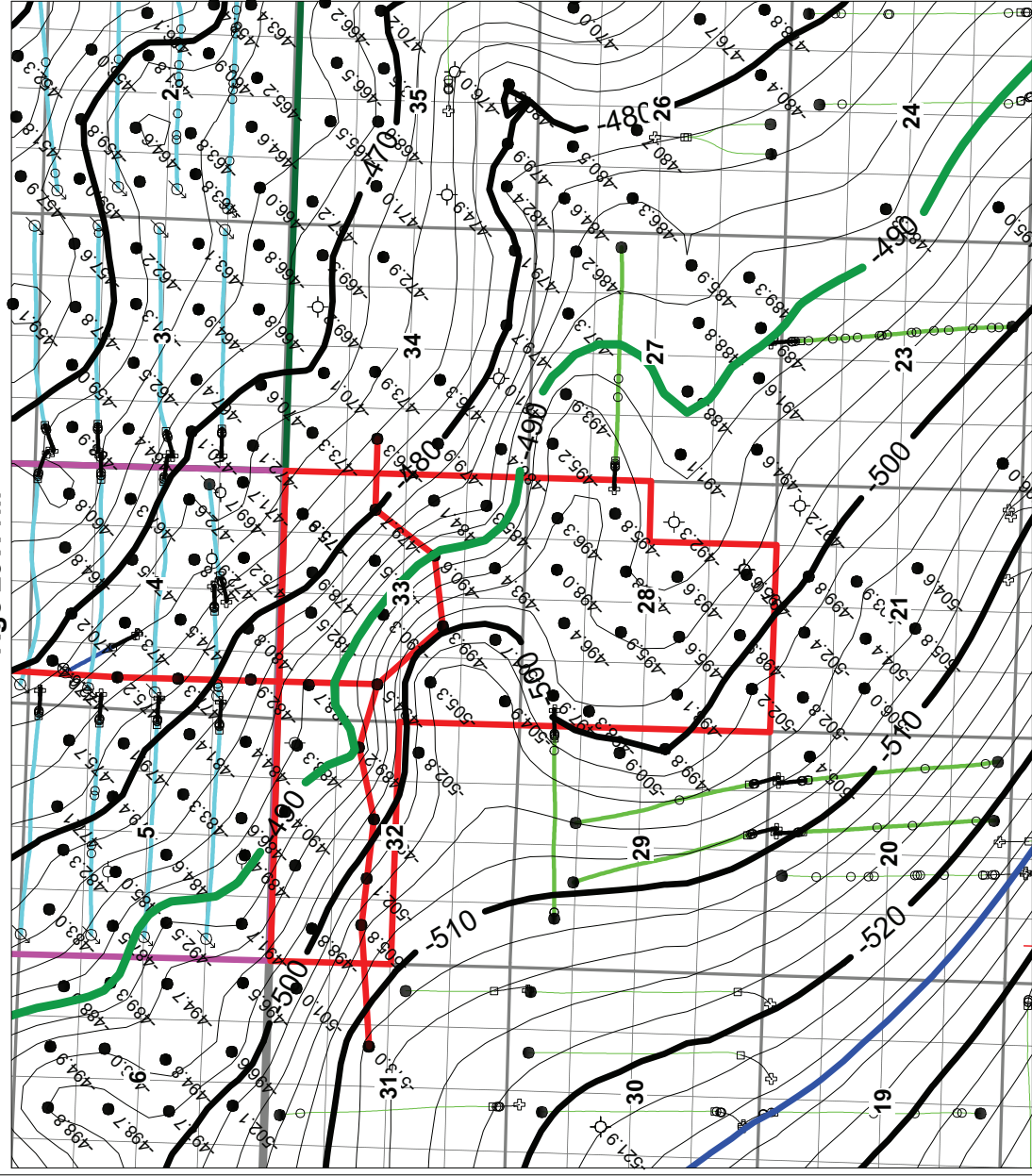
**Proposed Sinclair Unit 8  
Top Lyleton B  
Structure Map  
Appendix 10**

Rge 29W1M



Twp 8

Twp 7



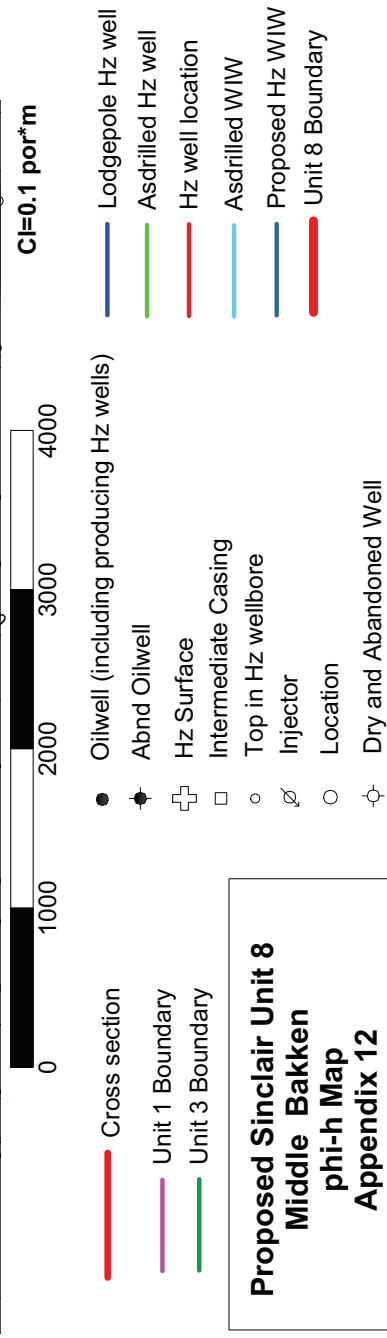
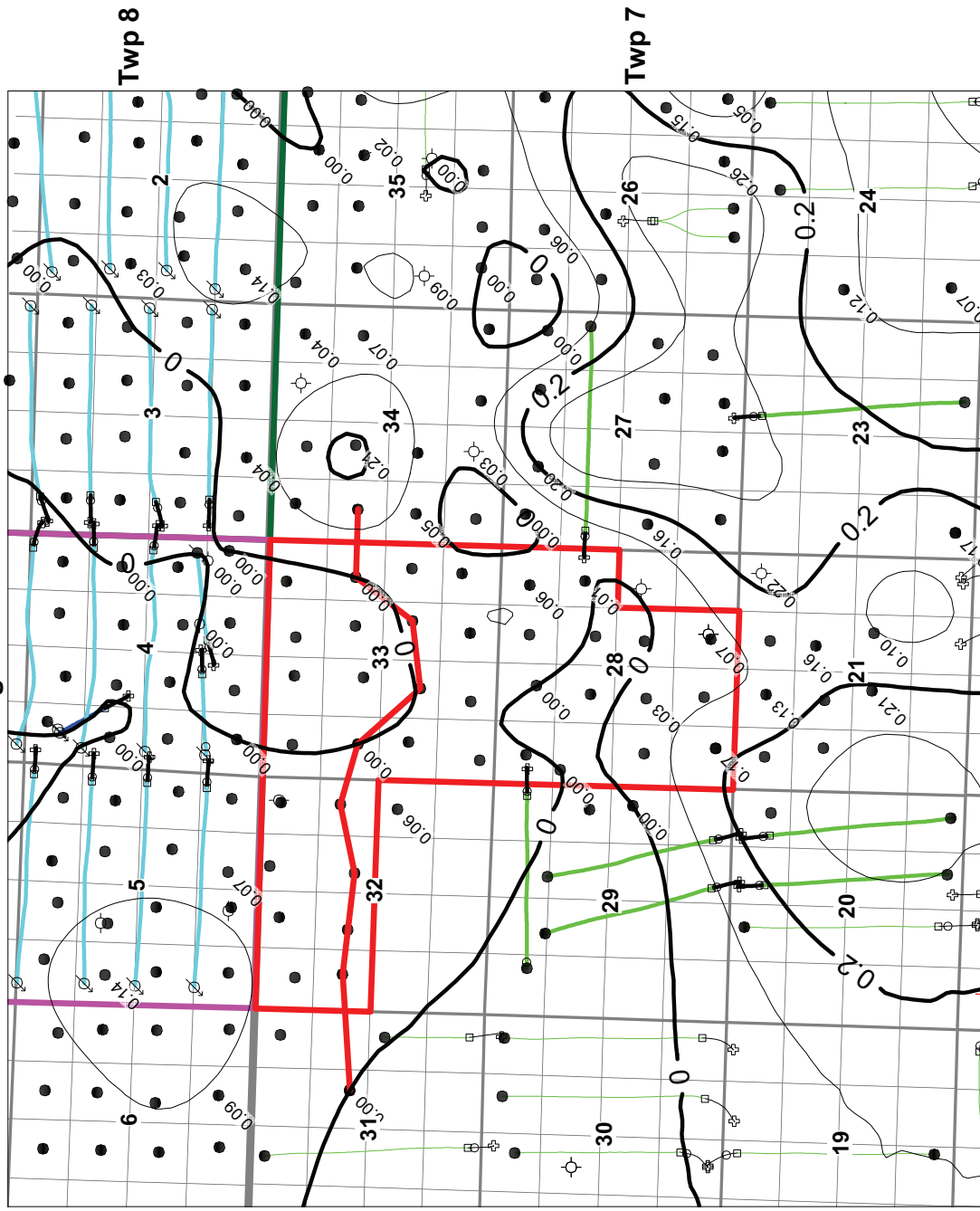
CI=2 m

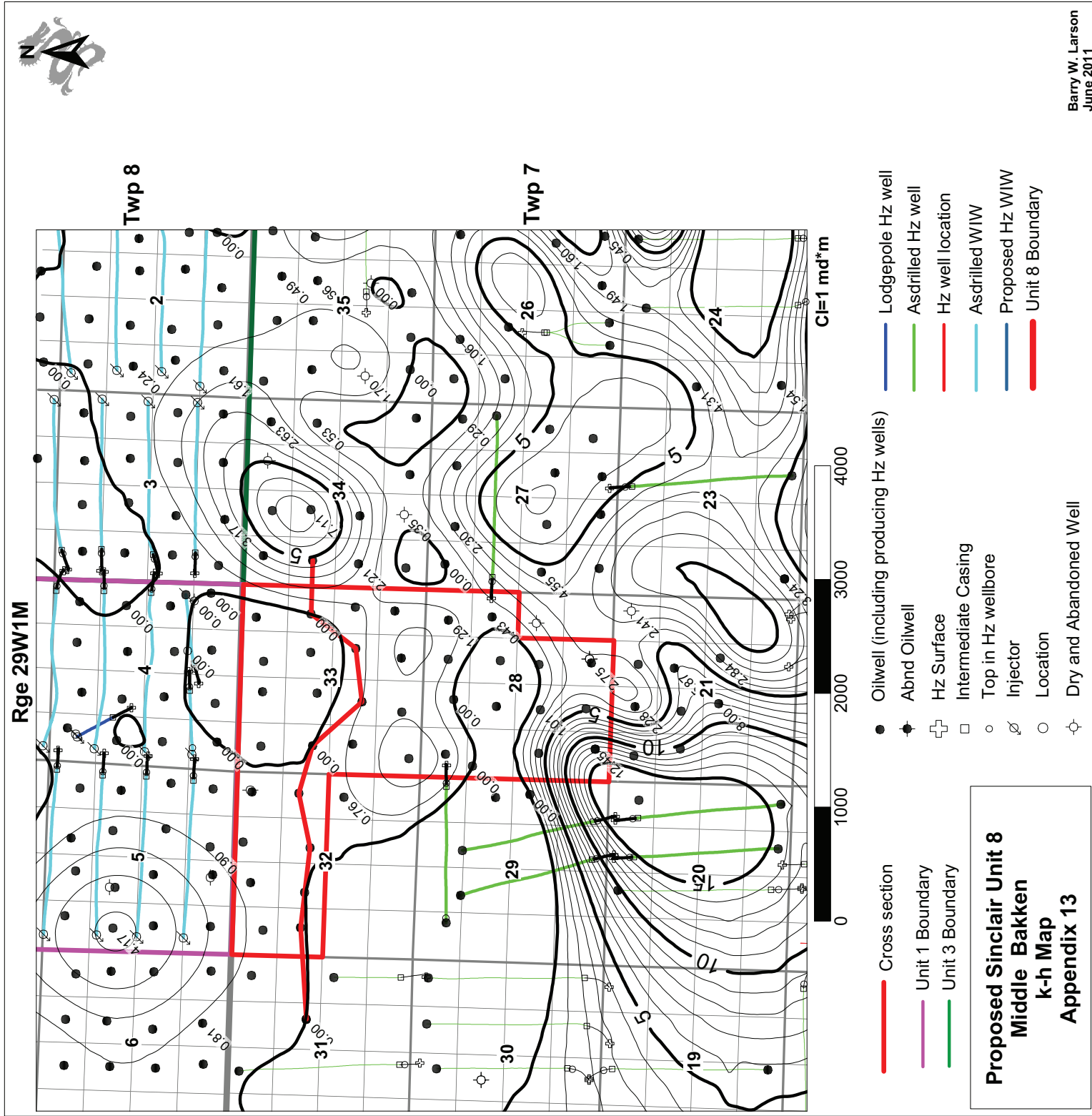


- Cross section
- Unit 1 Boundary
- Unit 3 Boundary
- Asdrilled Lodgepole Hz well
- Asdrilled Hz well
- Hz well location
- Asdrilled WIW
- Proposed Hz WIW
- Unit 8 Boundary
- Top of Transition zone (est.)
- Top of O/W contact (est.)
- Oilwell (including producing Hz wells)
- ✦ Abnd Oilwell
- ✦ Hz Surface
- ✦ Intermediate Casing
- Top in Hz wellbore
- Injector
- Location
- Dry and Abandoned Well

**Proposed Sinclair Unit 8  
Top Three Forks (Torquay)  
Structure Map  
Appendix 11**

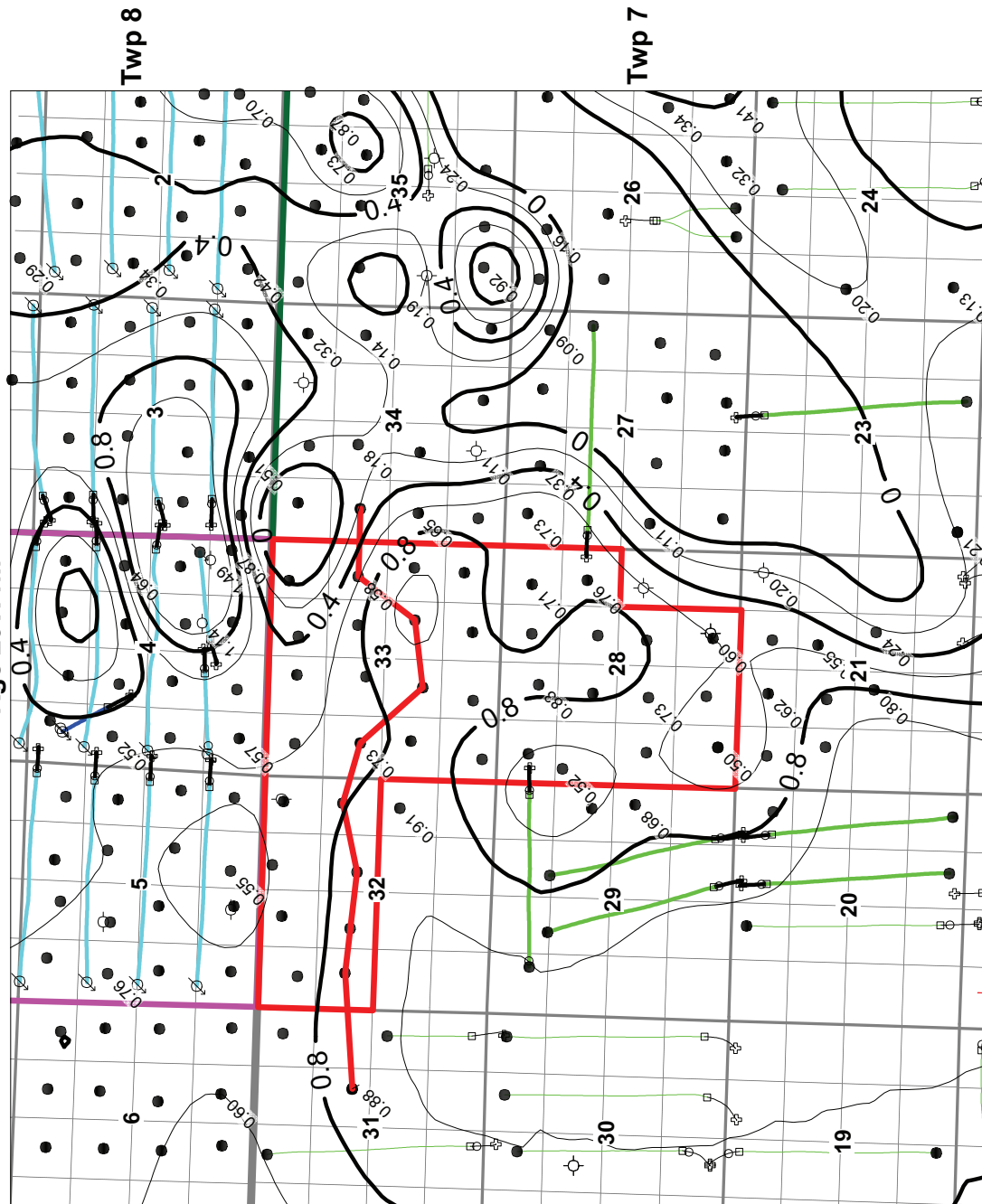
Rge 29W1M







Rge 29W1M



CI=0.2 por\*m

- Cross section
- Unit 1 Boundary
- Unit 3 Boundary
- Lodgepole Hz well
- Asdrilled Hz well
- Hz well location
- Asdrilled WW
- Proposed Hz WW
- Unit 8 Boundary
- Oilwell (including producing Hz wells)
- ✦ Abnd Oilwell
- ✦ Hz Surface
- ✦ Intermediate Casing
- Top in Hz wellbore
- ✦ Injector
- Location
- ✦ Dry and Abandoned Well

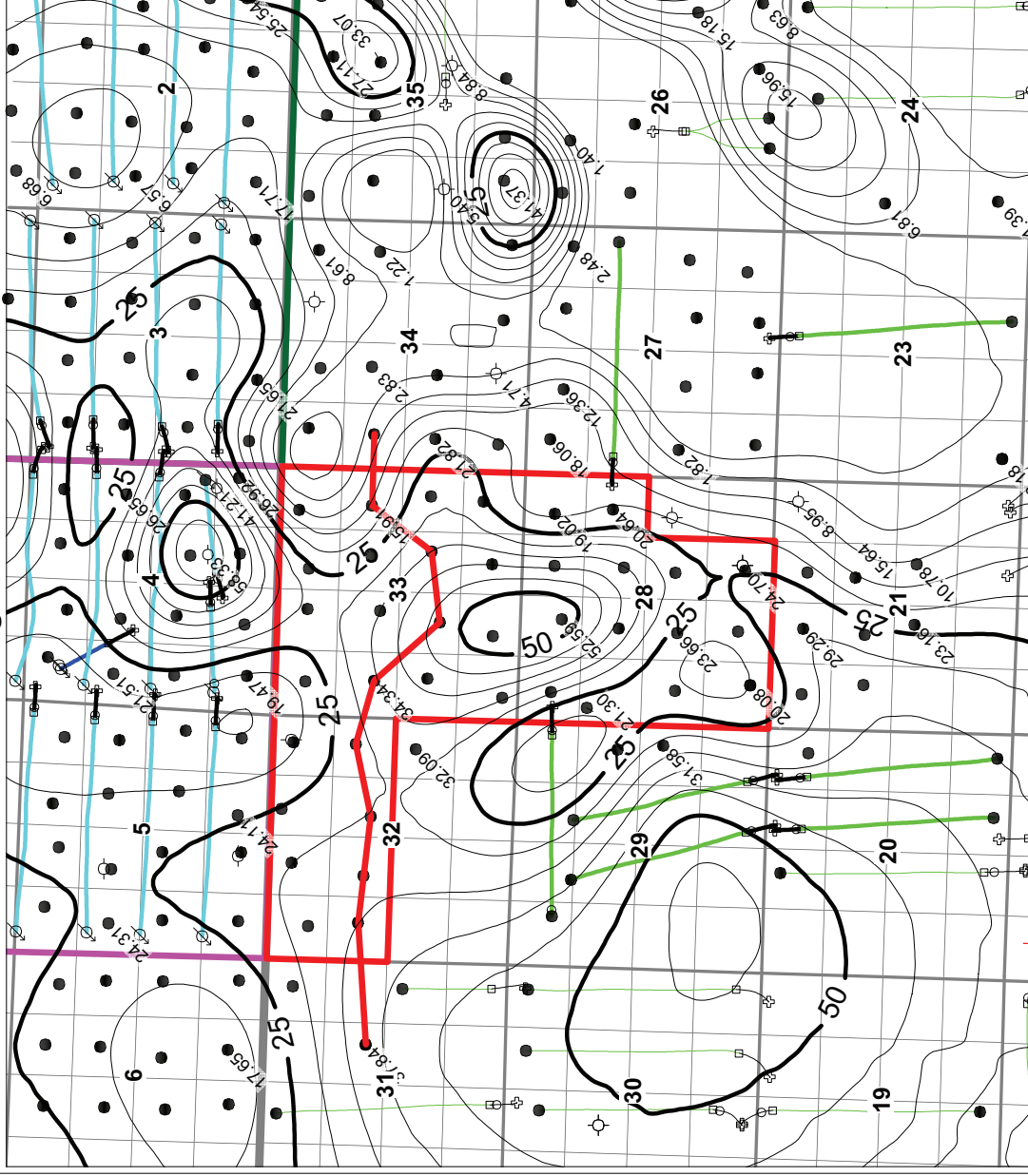
**Proposed Sinclair Unit 8**  
**Lyleton A**  
**phi-h Map**  
**Appendix 14**

Rge 29W1M



Twp 8

Twp 7



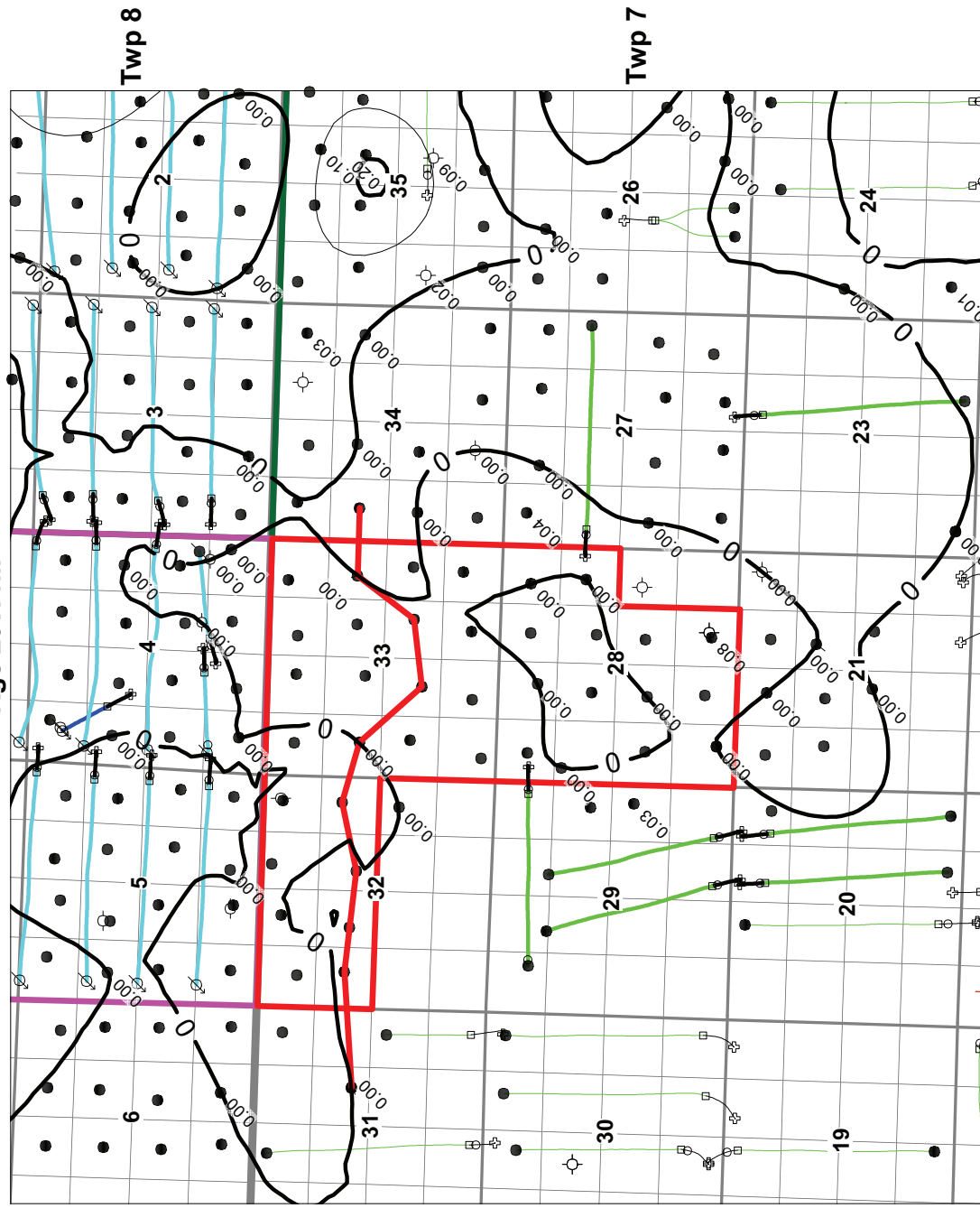
Cl=5 md\*m



- Cross section
- Unit 1 Boundary
- Unit 3 Boundary
- Lodgepole Hz well
- Asdrilled Hz well
- Hz well location
- Asdrilled WIW
- Proposed Hz WIW
- Unit 8 Boundary
- Oilwell (including producing Hz wells)
- ✦ Abnd Oilwell
- ✦ Hz Surface
- ✦ Intermediate Casing
- Top in Hz wellbore
- ✦ Injector
- Location
- ✦ Dry and Abandoned Well

**Proposed Sinclair Unit 8**  
**Lyleton A**  
**k-h Map**  
**Appendix 15**

Rge 29W1M

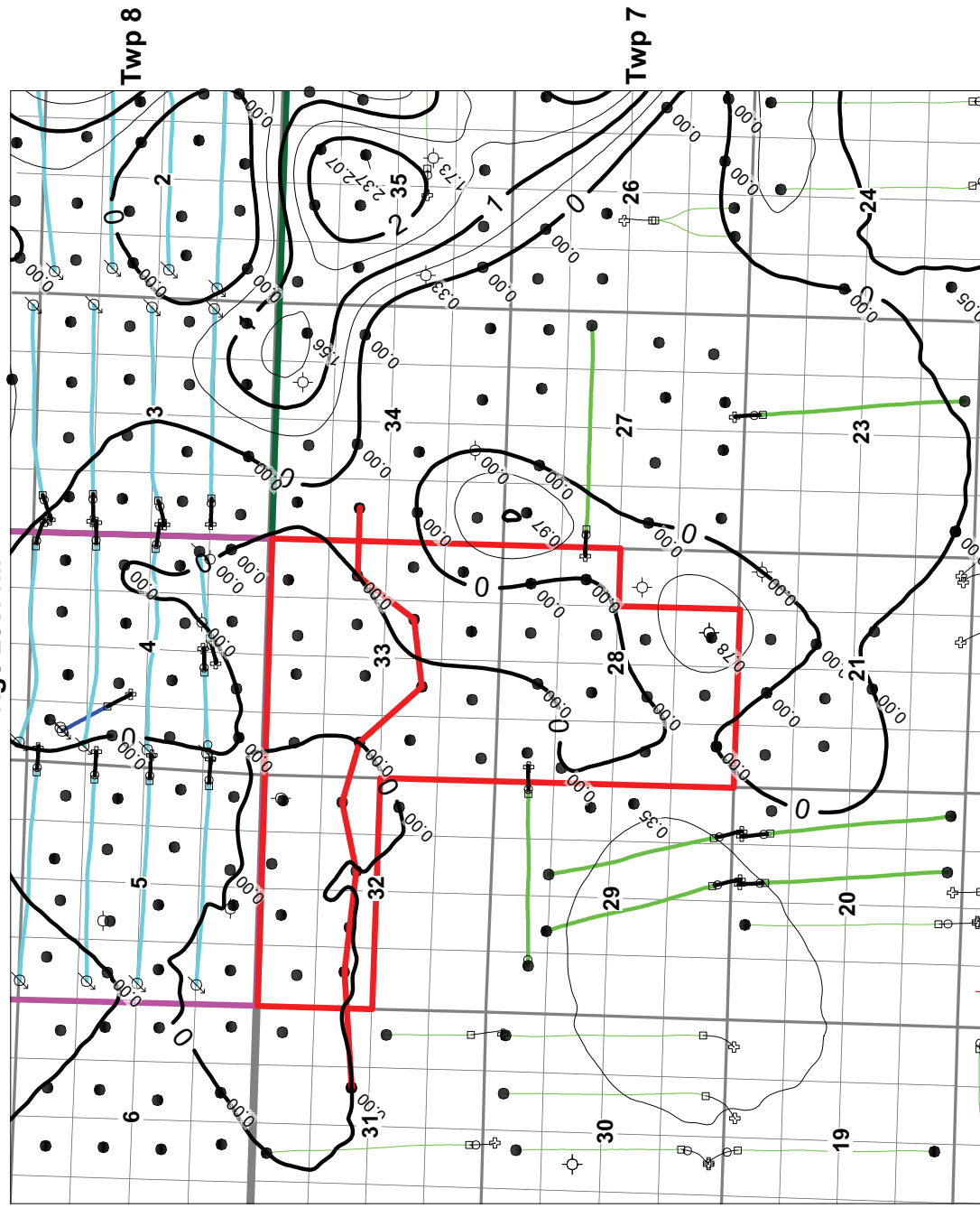


CI=0.1 por\*m

- Cross section
- Unit 1 Boundary
- Unit 3 Boundary
- Lodgepole Hz well
- Asdrilled Hz well
- Hz well location
- Asdrilled WIW
- Proposed Hz WIW
- Unit 8 Boundary
- Oilwell (including producing Hz wells)
- ✦ Abnd Oilwell
- ✦ Hz Surface
- ✦ Intermediate Casing
- Top in Hz wellbore
- ✦ Injector
- Location
- ✦ Dry and Abandoned Well

**Proposed Sinclair Unit 8**  
**Lyleton B**  
**phi-h Map**  
**Appendix 16**

Rge 29W1M



CI=0.5 md\*m



- Cross section
- Unit 1 Boundary
- Unit 3 Boundary
- Lodgepole Hz well
- Asdrilled Hz well
- Hz well location
- Asdrilled WIW
- Proposed Hz WIW
- Unit 8 Boundary
- Oilwell (including producing Hz wells)
- ✦ Abnd Oilwell
- ✦ Hz Surface
- ✦ Intermediate Casing
- Top in Hz wellbore
- Injector
- Location
- ✦ Dry and Abandoned Well

**Proposed Sinclair Unit 8**  
**Lyleton B**  
**k-h Map**  
**Appendix 17**



**TUNDRA OIL & GAS LIMITED**  
**SINCLAIR PROPOSED UNIT NO. 8**  
**ORIGINAL OIL-IN-PLACE AND PRELIMINARY**  
**WATERFLOOD RECOVERY ESTIMATES**

**Effective June 01, 2011**

Prepared by  
T. Mark Jobin, P. Geol.  
Amy N. Woldum, P. Eng.  
Myron J. Hladyshevsky, P. Eng.

**SINCLAIR PROPOSED UNIT NO. 8****TABLE OF CONTENTS**

	<b>Page</b>
<b>COVERING LETTER</b>	<b>3</b>
<b>DISCUSSION</b>	<b>4</b>
<b>MAPS</b>	
Map 1 Land Map	<b>7</b>
Map 2 Sinclair Proposed Unit No. 8 - Lyleton Formaton "A" Zone	<b>8</b>
Map 3 Sinclair Proposed Unit No. 8 - Lyleton Formation "B" Zone	<b>9</b>
Map 4 Sinclair Proposed Unit No. 8 - Mid Bakken Formation	<b>10</b>
<b>PLOTS</b>	
Plot 1 Sinclair Proposed Unit No. 8 - Oil+Fluids Time Semilog Property Plot	<b>11</b>
Plot 2 Sinclair Proposed Unit No. 8 - Oil+Fluids Cum Coord Property Plot	<b>12</b>
<b>TABLES</b>	
Table 1 Well List and Production Summary	<b>13</b>
Table 2 Original Oil-in-Place Calculation	<b>14</b>
Table 2.1 Oil Reservoir Parameters	<b>16</b>
Table 2.2 Oil Decline Parameters	<b>17</b>



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Douglas R. Sutton, P. Eng.  
James H. Willmon, P. Eng.

June 15, 2011

Project 1111064

Mr. Raj Sharma  
**Tundra Oil & Gas Limited**  
1000, 715 - 5th Avenue S.W.  
Calgary, Alberta T2P 2X6

Dear Mr. Sharma

**Re: Sinclair Field, Manitoba  
Sinclair Proposed Unit No. 8  
Original Oil-In-Place and  
Preliminary Waterflood Recovery Estimates**

At your request, GLJ Petroleum Consultants Ltd. (GLJ) has prepared original oil-in-place (OOIP) and preliminary waterflood recovery estimates for the Sinclair Proposed Unit No. 8. The OOIP estimates have been determined based on volumetric calculations using GLJ's pore volume mapping for the "A" zone of the Upper Devonian age Lyleton Formation and GLJ audited versions of Tundra Oil & Gas Limited's pore volume mapping for the Lyleton "B" and Mid Bakken zones. The analysis incorporates well, core and log data available to June 1, 2011.

A brief discussion of the methodology, reserves estimates 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 any of the undersigned.

Yours truly,

**GLJ PETROLEUM CONSULTANTS LTD.**

*"ORIGINALLY SIGNED BY"*

T. Mark Jobin, P. Geol.  
Vice-President, Geology

*"ORIGINALLY SIGNED BY"*

Amy N. Woldum, P. Eng.

*"ORIGINALLY SIGNED BY"*

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

TMJ/ANW/MJH/anw  
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 2006, Section 09-008-29W1 was unitized to form Sinclair Unit No. 1 (Unit 1) and in 2007 Unit 1 was expanded to include Section 04-008-29W1. Water injection commenced in Section 09 in July 2006 and in Section 04 in August 2007, and favorable production response has been observed. Effective January 1, 2009, Unit 1 was expanded to include an additional seven sections of land in Township 008, Range 29 W1M and additional horizontal injector wells were drilled and placed on-stream during 2009 to complete the line drive waterflood pattern. The complete Unit 1 outline is illustrated on Map 1.

Tundra has continued unitization efforts for future waterflood implementation outside of Unit 1 and approval has been granted for Sinclair Unit No. 2 (Unit 2), Sinclair Unit No. 3 (Unit 3) and Sinclair Unit No. 5 (Unit 5), with effective dates of January 1, 2010, November 1, 2009 and October 1, 2010, respectively. Unit 2 consists of 146 LSDs in Township 007, Ranges 28 to 29 W1M, Unit 3 consists of six sections of land in Township 008, Range 29 W1M and Unit 5 consists of one section of land in Township 008, Range 28 W1M. Outlines for Unit 2, Unit 3 and Unit 5 are also illustrated on Map 1. Water injection has recently commenced in Units 2 and 3 in November 2010 and July 2010, respectively.

Based on positive waterflood response seen to date from Unit 1 and also preliminary positive response seen from Units 2 and 3, Tundra is proposing further unitization in the Sinclair Field. Sinclair Proposed Unit No. 8 (Unit 8) will consist of 38 LSDs in Township 007, Range 29 W1M, as outlined on Maps 1 through 4. A well list and production summary for Unit 8 is provided in Table 1. At Tundra's request, GLJ has prepared OOIP and preliminary waterflood recovery estimates for these lands, incorporating data available to June 1, 2011.

### ***Geology***

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 Kmax vs porosity cross plot 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 Proposed Unit No. 8***

Volumetric calculations of OOIP for Unit 8 were based on pore volume (porosity times net pay thickness ( $\phi \cdot H$ )) mapping. Average pore volume mapping of the “A” zone of the Upper Devonian age Lyleton Formation (Map 2) has been prepared by GLJ. This map incorporates 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. Tundra has prepared pore volume mapping for the Lyleton “B” and the Mid Bakken zones using available core data. GLJ has audited and after slight contour adjustments, planimetered these maps and incorporated the results into the OOIP calculations for Unit 8. Pore volume maps for the Lyleton “B” and Mid Bakken Formations are included as Maps 3 and 4, respectively.

The OOIP for each of the three intervals was estimated based on volumetric calculations using the pore volume mapping and was subsequently tabulated on an LSD basis as detailed in Table 2. An average water saturation value of 45 percent has been estimated for Unit 8 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 total OOIP for the Sinclair Proposed Unit No. 8 was estimated to be 13.5 MMSTB.

Unit 8 consists of thirty-eight vertical wells, of which thirty-seven are currently producing oil. Producing reserves were determined based on a combination of volumetric and decline curve analysis. Recovery factors of 9.2 and 10.0 percent were assigned in the proved producing and proved plus probable producing categories, respectively. Ultimate reserves totaled 1.2 and 1.3 MMSTB in the proved producing and proved plus probable producing reserves categories, respectively.

Tundra has plans to implement waterflood operations in Unit 8 by drilling horizontal water injection wells in a line drive pattern, similar to the waterflood development plan carried out in the majority of the sections in Unit 1. Ultimate recovery factors of 15.6 and 21.1 percent have been estimated for Unit 8 under waterflood, which results in ultimate reserves of 2.1 and 2.8 MMSTB in the total proved and total proved plus probable reserves categories, respectively. The recovery factors were estimated based on analogy to the expected recovery from Section 04-008-29W1, from which over three years of production history is now available since commencement of water injection. Lower recovery factors were estimated for Unit 8 as the lands are closer in proximity to the oil-water contact, the average initial water saturation is estimated at 45 percent as opposed to 40 percent in Unit 1, and the performance seen under primary recovery has generally been poorer than that in Unit 1.

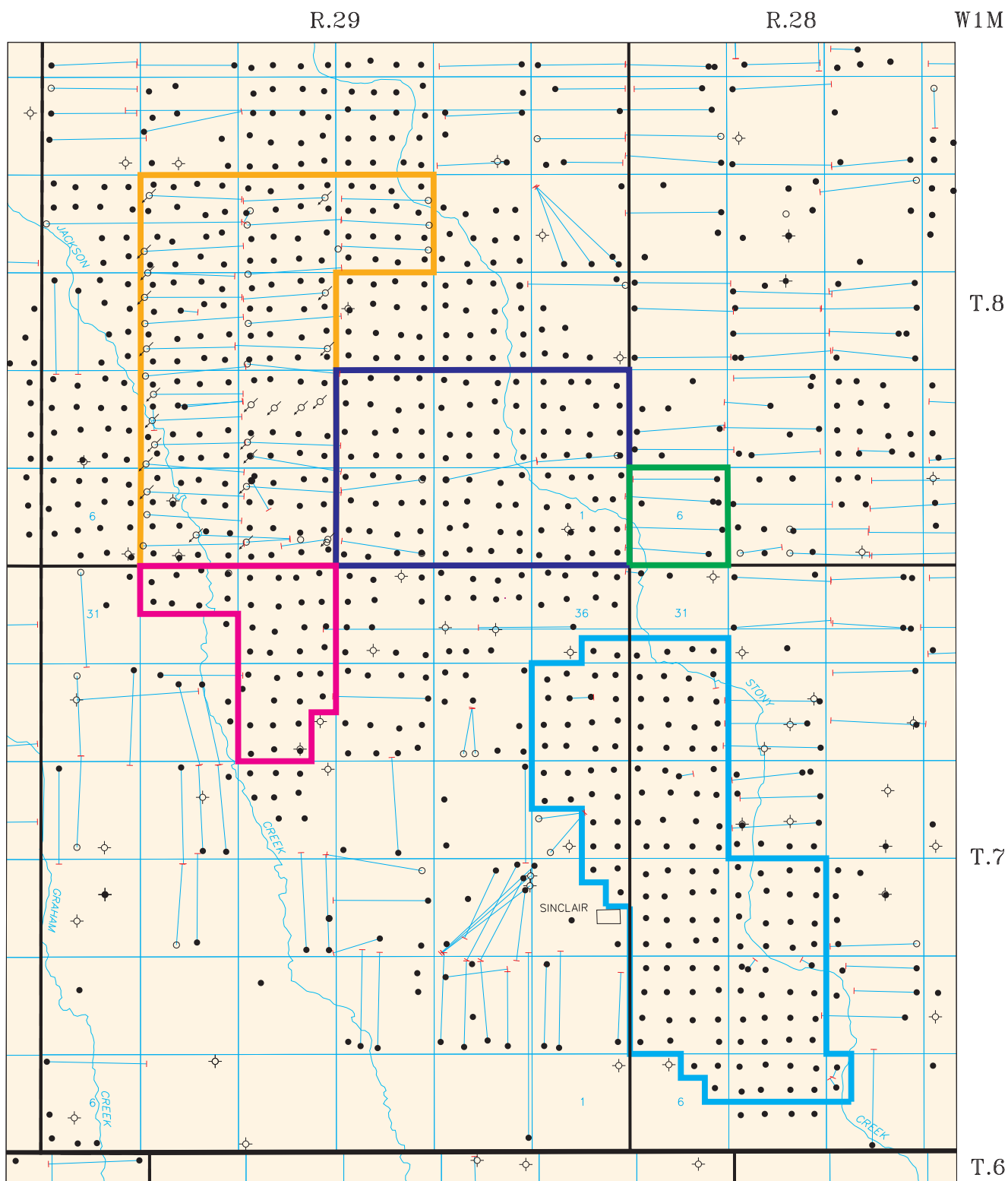
It should be noted that GLJ's recovery factor estimates and oil production forecasts are preliminary and depend in part on operational factors controlled by Tundra such as injection rates and timing of injection well drilling. The production forecasts for the total proved and total proved plus probable reserves cases have been based primarily on analogy to waterflood response seen in the more mature areas of the reservoir, specifically Unit 1, and have not been based on any simulation study results. Consequently, the timing and magnitude of the production response may be materially different than what is forecast in this report.

Volumetric and decline parameters for Unit 8 for all reserves categories are included in Tables 2.1 and 2.2, respectively. Total Unit 8 production history plots consisting of oil rate versus time on a semi-log scale and oil rate versus cumulative production on a coordinate scale are included as Plots 1 and 2. It should be noted that GLJ has assessed Unit 8 to determine the OOIP and preliminary reserves estimates only and has not verified the economic feasibility of the project.

Map 1  
Land Map  
Sinclair Units

Company: Tundra Oil & Gas Limited  
Property: Sinclair Proposed Unit No. 8

Effective Date: June 1, 2011  
Scale: 1:100,000 s1111064/sp8m01



LEGEND:

SINCLAIR UNIT NO. 1

SINCLAIR UNIT NO. 2

SINCLAIR UNIT NO. 3

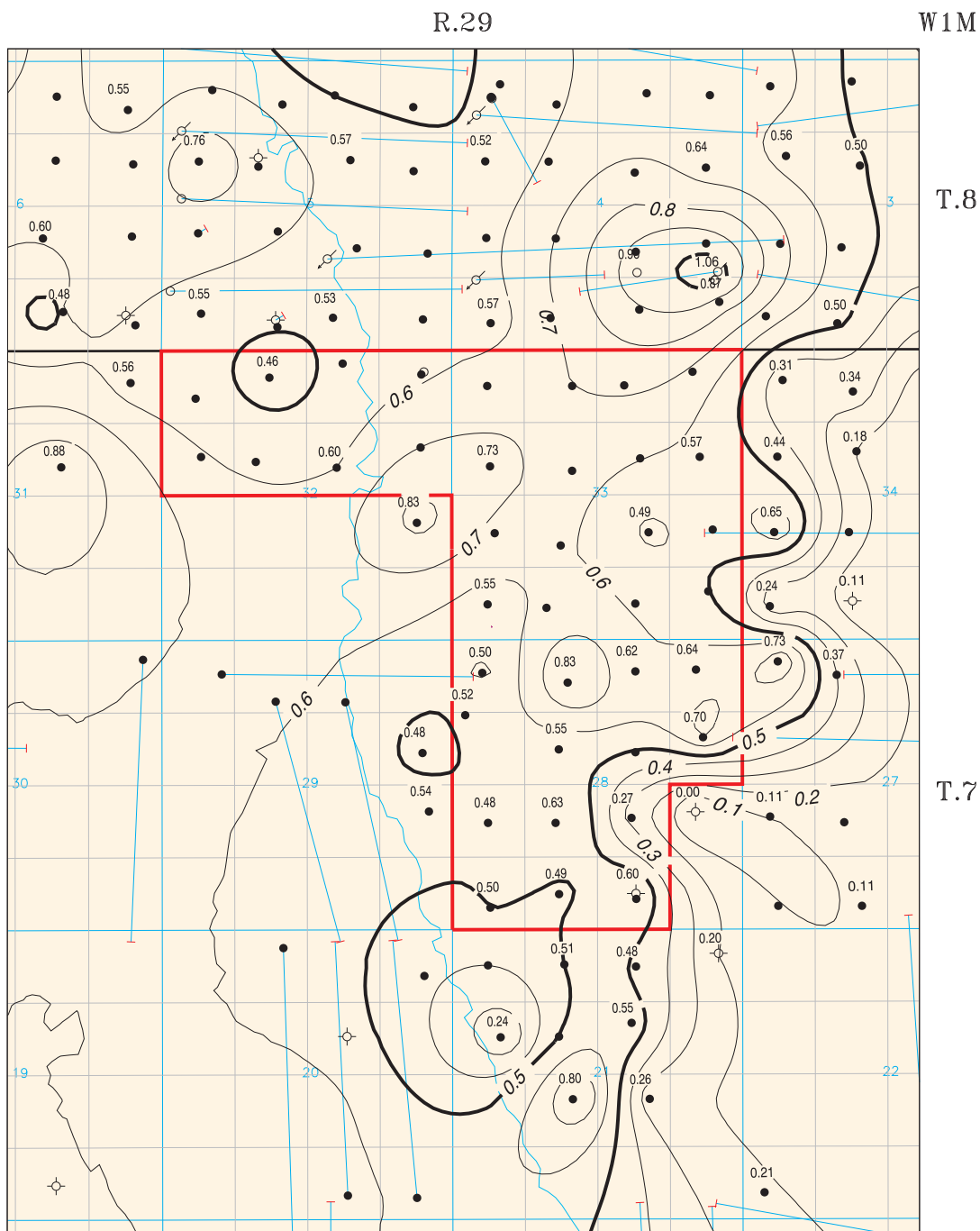
SINCLAIR UNIT NO. 5

SINCLAIR PROPOSED UNIT NO. 8

Map 2  
**Sinclair Proposed Unit No. 8**  
**Lyleton Formation**  
**"A" Zone**

Company: Tundra Oil & Gas Limited  
 Property: Sinclair Proposed Unit No. 8

Effective Date: June 1, 2011  
 Scale: 1:40,000 s1111064/sp8m02



LEGEND:

SINCLAIR PROPOSED UNIT NO. 8

0.80  $\Phi H$  (Porosity X Thickness(m))

\*

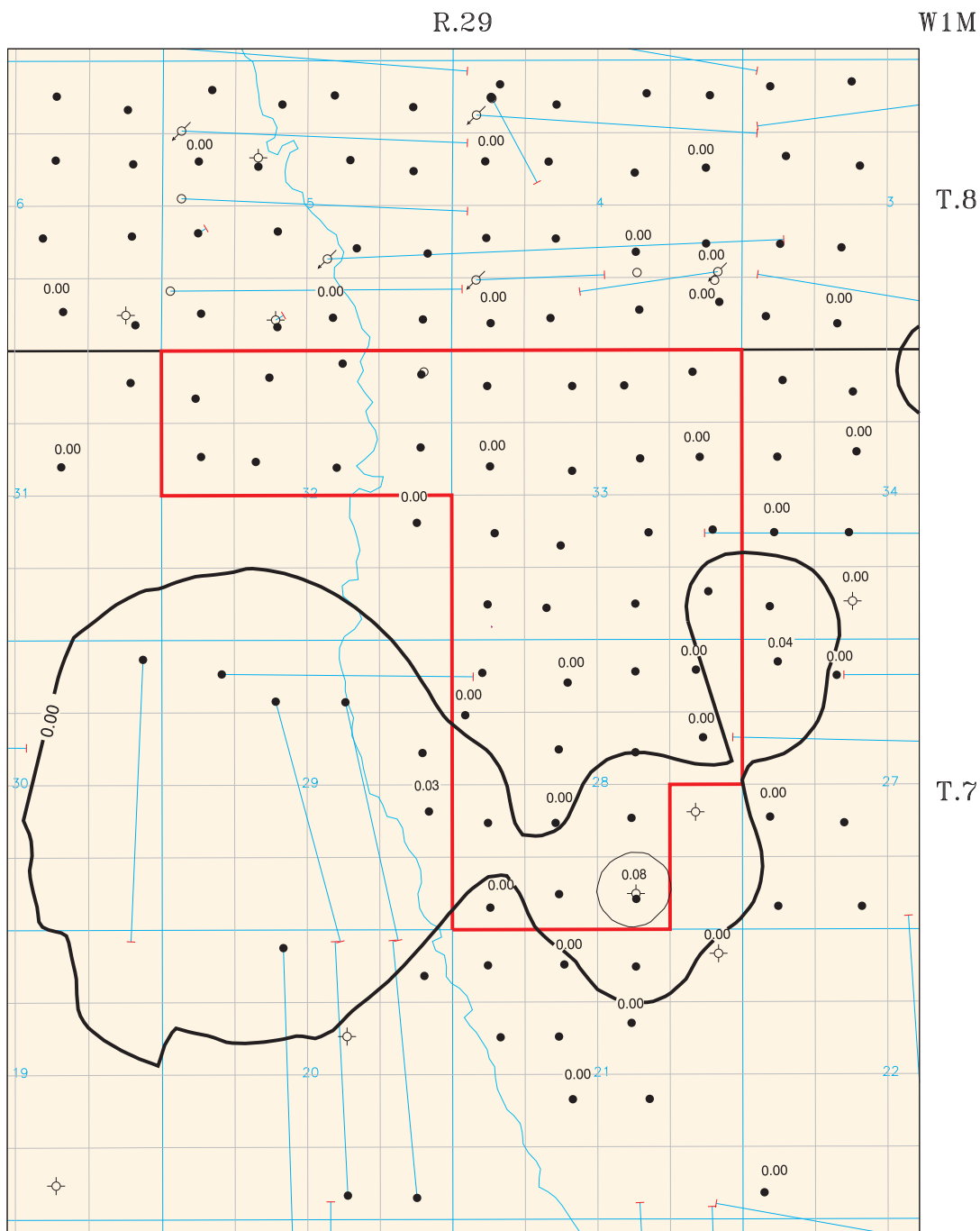
CONTOUR INTERVAL = 0.1 metres



Map 3  
Sinclair Proposed Unit No. 8  
Lyleton Formation  
"B" Zone

Company: Tundra Oil & Gas Limited  
Property: Sinclair Proposed Unit No. 8

Effective Date: June 1, 2011  
Scale: 1:40,000 s1111064/sp8m03



LEGEND:



SINCLAIR PROPOSED UNIT NO. 8

0.80 \* Phi H (Porosity X Thickness(m))

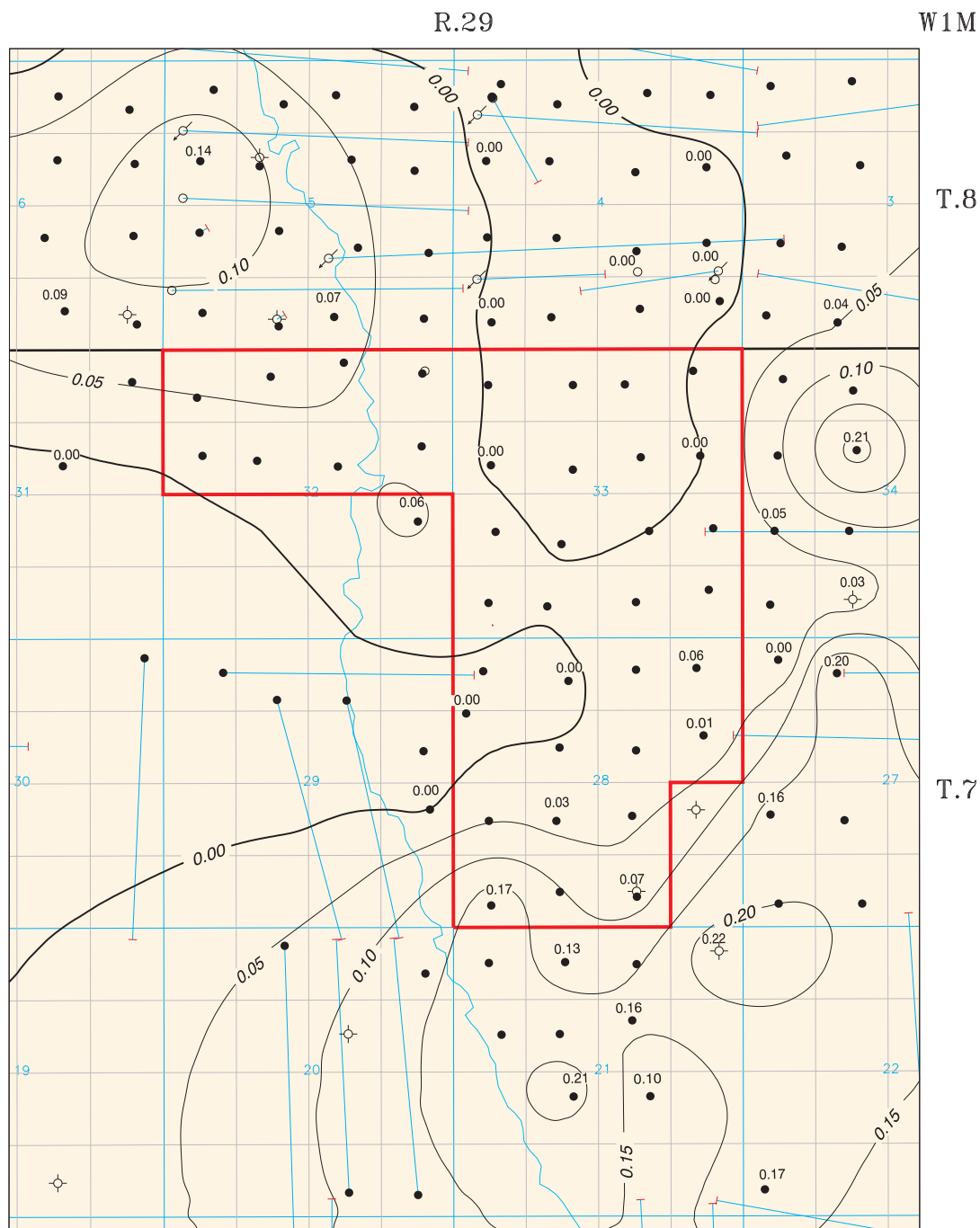


CONTOUR INTERVAL = 0.05 metres

Map 4  
Sinclair Proposed Unit No. 8  
Mid Bakken Zone

Company: Tundra Oil & Gas Limited  
Property: Sinclair Proposed Unit No. 8

Effective Date: June 1, 2011  
Scale: 1:40,000 s1111064/sp8m04



LEGEND:

SINCLAIR PROPOSED UNIT NO. 8

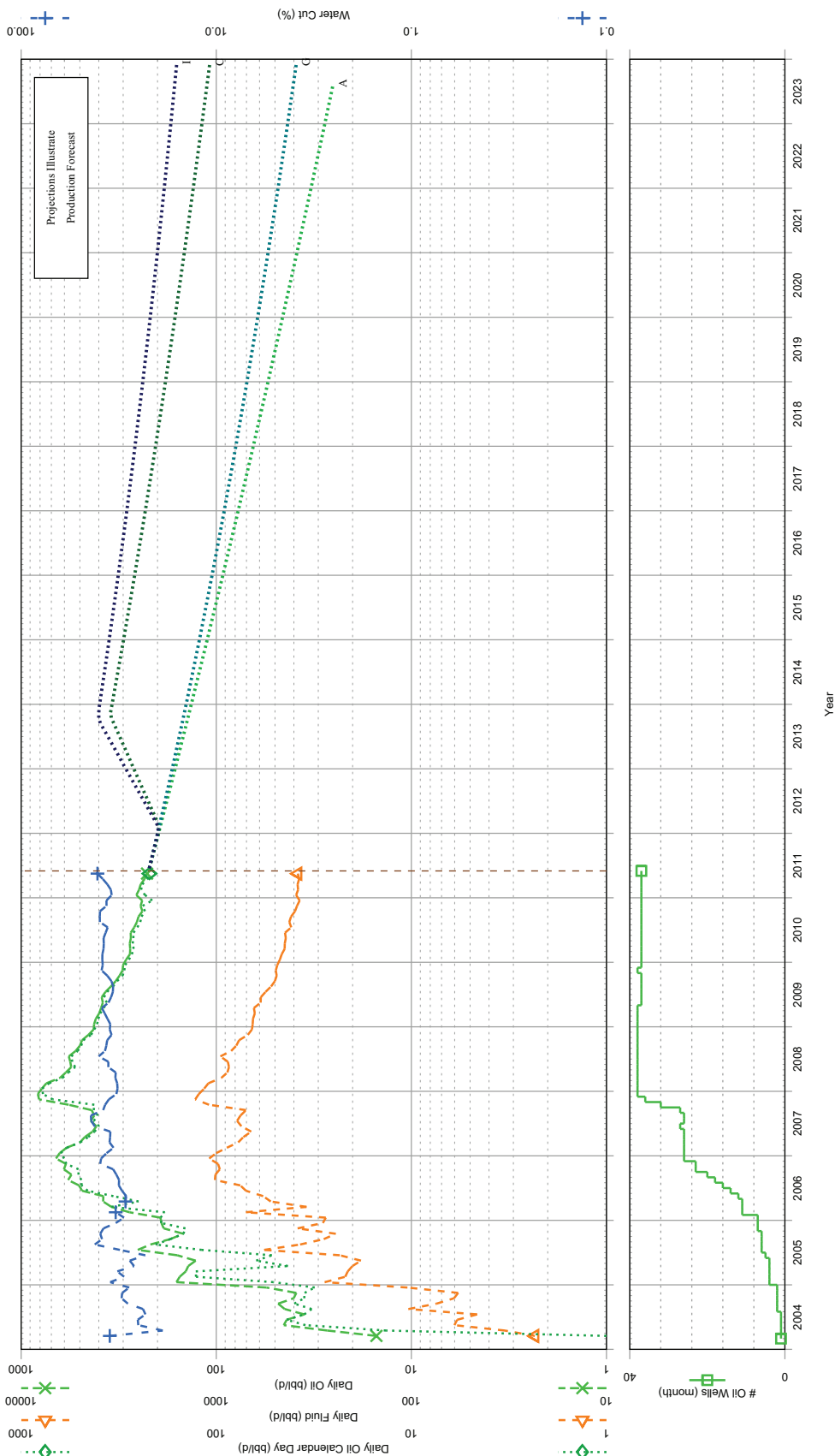
0.80 Phi H (Porosity X Thickness(m))

\*

CONTOUR INTERVAL = 0.05 metres

# Historical and Forecast Production Sinclair Proposed Unit No. 8 - Total Property

Property : Sinclair Proposed Unit No. 8



Total Reserves Summary @ 2011/06/01

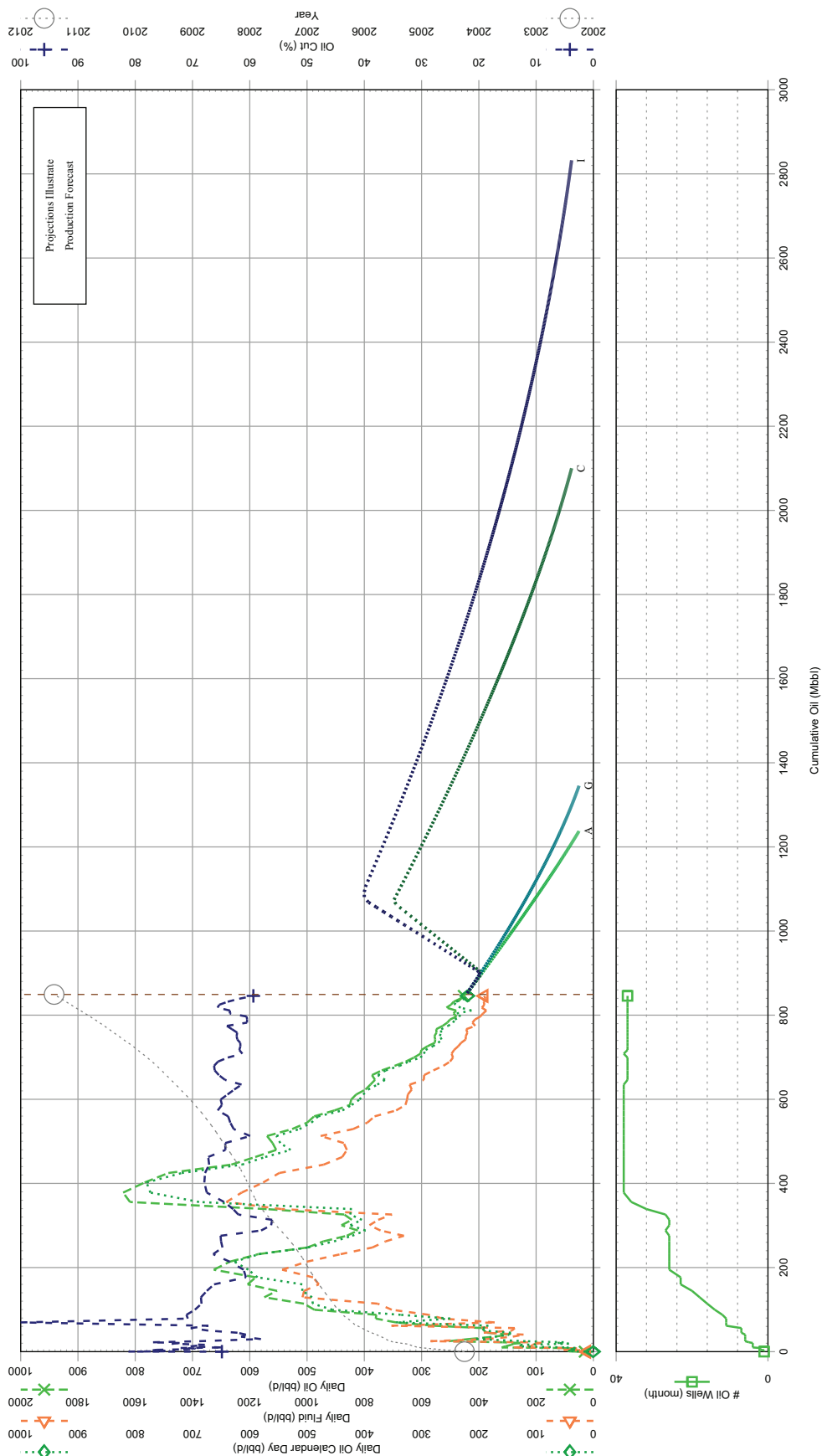
Reserves Classification	Reserves ( Mbbl )		
	Ultimate	Cum Production	Remaining
Pv Prd A(R)	1238	849	388
Total Pv C(R)	2100	849	1251
P + P Prd G(R)	1345	849	496
Total P + P I(R)	2832	849	1983

Average Production Rates (Last 12 months ending 2011/05/31)

Gas :	0.0 Mcf/d	0.0 Mcf/cd	WGR :	0.0 bbl/MMcf
Oil :	247.9 bbl/d	237.3 bbl/cd	GOR :	0.0 scf/bbl
Avg Wells :	36.3		WC :	37.4 %
Cumulative Production				
Oil :	849.2 Mbbl	Gas :	0.0 MMcf	Water :
				465.8 Mbbl

# Historical and Forecast Production Sinclair Proposed Unit No. 8 - Total Property

Property : Sinclair Proposed Unit No. 8



## Total Reserves Summary @ 2011/06/01

Reserves Classification	Reserves ( Mbbbl )		
	Ultimate	Cum Production	Remaining
Pv Prd	1238	849	388
Total Pv	2100	849	1251
P + P Prd	1345	849	496
Total P + P	2832	849	1983

## Average Production Rates (Last 12 months ending 2011/05/31)

Gas :	0.0Mcf/d	0.0Mcf/cd	WGR :	0.0bbl/MMcf	
Oil :	247.9bbl/d	237.3bbl/cd	GOR :	0.0scf/bbl	
Avg Wells :	36.3		WC :	37.4%	
Cumulative Production					
Oil :	849.2Mbbbl	Gas :	0.0MMcf	Water :	465.8Mbbbl

Sinclair Proposed Unit No. 8  
1111064 / Jul 11, 2011



Table 1

Property:Sinclair Proposed Unit No. 8

Page 1  
Currency Date: 2011-05

Well List and Production Summary

#	Well Location	Regulatory Field Pool	Current Status	Production Dates			Last Quarter Production Statistics							Cumulative Production		
				RigRel yr-mm	First yr-mm	Last yr-mm	Inj yr-mm	Prod Days	Oil bbl/d	Gas Mc/d	GOR scf/bbl	WGR bbl/MMcf	WC %	Oil Mbbl	Gas MMcf	Water Mbbl
1	00/01-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-05	2006-06	2011-05		92	4	0	0		32.5	19	0	10
2	02/02-28-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2007-11	2007-12	2011-05		83	6	0	0		36.4	15	0	7
3	00/03-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2007-11	2007-11	2011-05		88	6	0	0		34.3	19	0	9
4	00/03-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-09	2006-09	2011-05		91	3	0	0		59.4	11	0	16
5	00/04-28-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2004-07	2004-08	2011-05		84	5	0	0		44.5	27	0	16
6	00/04-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2005-03	2005-06	2011-05		90	1	0	0		77.8	6	0	22
7	00/05-28-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2007-11	2007-11	2011-05		84	7	0	0		35.8	24	0	12
8	00/05-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-06	2006-07	2011-05		88	1	0	0		76.8	4	0	20
9	00/06-28-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2007-10	2007-10	2011-05		92	7	0	0		28.3	18	0	8
10	00/06-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-09	2006-09	2011-05		92	4	0	0		56.6	15	0	16
11	00/07-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2007-11	2007-11	2011-05		90	7	0	0		32.0	17	0	10
12	00/07-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-08	2006-08	2011-05		92	7	0	0		38.9	26	0	13
13	00/08-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-06	2006-07	2011-05		92	6	0	0		33.0	21	0	10
14	00/09-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2007-10	2007-11	2011-05		82	5	0	0		44.1	15	0	9
15	00/09-32-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-11	2006-12	2011-05		88	6	0	0		50.1	27	0	15
16	00/09-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2004-12	2005-01	2011-05		92	6	0	0		26.8	38	0	11
17	00/10-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2007-10	2007-10	2011-05		90	7	0	0		33.0	21	0	9
18	00/10-32-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-11	2006-12	2011-05		88	3	0	0		59.6	16	0	15
19	00/10-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-02	2006-02	2011-05		92	7	0	0		28.0	32	0	11
20	00/11-28-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2007-10	2007-10	2011-05		83	6	0	0		39.1	21	0	10
21	00/11-32-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-09	2006-10	2011-05		92	4	0	0		58.4	8	0	17
22	00/11-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-02	2006-02	2011-05		88	5	0	0		36.8	28	0	12
23	00/12-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2004-03	2004-03	2011-05		88	4	0	0		34.2	46	0	10
24	00/12-32-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-09	2006-10	2011-05		92	3	0	0		59.8	5	0	17
25	00/12-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2004-12	2005-01	2011-05		88	3	0	0		45.9	25	0	12
26	00/13-28-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2007-12	2007-12	2011-05		89	4	0	0		38.7	14	0	8
27	00/13-32-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-09	2006-10	2011-05		92	4	0	0		61.3	15	0	15
28	00/13-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-02	2006-02	2011-05		90	11	0	0		19.1	33	0	11
29	00/14-28-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2007-10	2007-10	2011-05		92	10	0	0		24.0	24	0	9
30	00/14-32-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2005-07	2005-07	2011-05		88	3	0	0		48.1	26	0	13
31	00/14-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-02	2006-02	2011-05		92	12	0	0		16.7	36	0	10
32	00/15-28-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2007-10	2007-10	2011-05		89	6	0	0		43.4	20	0	11
33	00/15-32-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-11	2006-12	2011-05		89	11	0	0		26.7	31	0	10
34	00/15-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-05	2006-06	2011-05		90	11	0	0		18.1	30	0	10
35	00/16-28-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2007-06	2007-06	2011-05		92	7	0	0		35.3	19	0	10
36	00/16-32-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2005-11	2005-11	2011-05		92	0	0	0			26	0	18
37	00/16-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-05	2006-05	2011-05		92	16	0	0		14.1	38	0	10
38	00/02-33-007-29W1/0	DALY SINCLAIR BAKKEN-THREE F... OIL		2006-08	2006-08	2011-05		92	9	0	0		36.9	34	0	16
Total									228	0	0			849	0	466

Table 2

Company: Tundra Oil & Gas Limited  
Property: Sinclair Proposed Unit No. 8

Effective Date:

June 01, 2011

**Sinclair Proposed Unit No. 8**  
**Original Oil-in-Place Calculation**

LSD	Logs/Core Analysis	GLJ Planimetered Values - Lyleton A phi* <i>h</i> *a (Acre-ft)	Audited TOGL Planimetered Values - Lyleton A OOIP (Mbbbl)	Audited TOGL Planimetered Values - Lyleton B phi* <i>h</i> *a (Acre-ft)	OOIP (Mbbbl)	Audited TOGL Planimetered Values - Mid Bakken phi* <i>h</i> *a (Acre-ft)	OOIP (Mbbbl)	Total OOIP (all zones) Mbbbl
00/02-28-007-29W1/0	CA	67.32	282.2	11.85	49.7	12.09	50.7	382.5
00/03-28-007-29W1/0	L	72.29	303.0	4.81	20.2	14.11	59.1	382.3
00/04-28-007-29W1/0	CA	70.71	296.4	0.62	2.6	19.35	81.1	380.1
00/05-28-007-29W1/0	L	73.98	310.1	2.21	9.3	6.26	26.2	345.6
00/06-28-007-29W1/0	CA	75.23	315.3	1.54	6.5	6.49	27.2	349.0
00/07-28-007-29W1/0	L	42.61	178.6	6.64	27.8	6.67	28.0	234.4
00/09-28-007-29W1/0	CA	69.67	292.0	0.44	1.8	5.78	24.2	318.1
00/10-28-007-29W1/0	L	67.70	283.8	0.42	1.8	5.08	21.3	306.8
00/11-28-007-29W1/0	L	78.38	328.5	0.01	0.0	2.65	11.1	339.7
00/12-28-007-29W1/0	CA	71.80	300.9	0.53	2.2	0.38	1.6	304.8
00/13-28-007-29W1/0	L	75.10	314.8	0.00	0.0	0.04	0.2	314.9
00/14-28-007-29W1/0	CA	96.24	403.4	0.00	0.0	0.49	2.1	405.4
00/15-28-007-29W1/0	L	86.69	363.4	0.00	0.0	5.39	22.6	385.9
00/16-28-007-29W1/0	CA	86.39	362.1	1.83	7.7	5.84	24.5	394.2
		<b>Section 28-007-29W1</b>	<b>4334.4</b>	<b>Section 28-007-29W1</b>	<b>129.5</b>	<b>Section 28-007-29W1</b>	<b>379.8</b>	<b>4843.8</b>
00/09-32-007-29W1/0	-	93.37	391.4	0.00	0.0	4.93	20.7	412.0
00/10-32-007-29W1/0	L	80.02	335.4	0.00	0.0	5.84	24.5	359.9
00/11-32-007-29W1/0	-	77.57	325.1	0.00	0.0	4.33	18.1	343.3
00/12-32-007-29W1/0	-	84.05	352.3	0.00	0.0	2.31	9.7	362.0
00/13-32-007-29W1/0	-	73.36	307.5	0.00	0.0	7.38	30.9	338.4
00/14-32-007-29W1/0	L	67.83	284.3	0.00	0.0	7.75	32.5	316.8
00/15-32-007-29W1/0	-	70.45	295.3	0.00	0.0	6.57	27.5	322.8
00/16-32-007-29W1/0	-	79.50	333.2	0.00	0.0	3.84	16.1	349.3
		<b>Section 32-007-29W1</b>	<b>2624.5</b>	<b>Section 32-007-29W1</b>	<b>0.0</b>	<b>Section 32-007-29W1</b>	<b>180.0</b>	<b>2804.5</b>
00/01-33-007-29W1/0	-	70.51	295.5	1.71	7.2	6.84	28.7	331.4
00/02-33-007-29W1/0	-	78.88	330.6	0.00	0.0	5.48	23.0	353.6
00/03-33-007-29W1/0	-	89.86	376.6	0.00	0.0	3.61	15.1	391.8
00/04-33-007-29W1/0	-	83.27	349.0	0.00	0.0	2.24	9.4	358.4
00/05-33-007-29W1/0	-	98.73	413.8	0.00	0.0	2.51	10.5	424.3
00/06-33-007-29W1/0	-	87.98	368.8	0.00	0.0	0.13	0.5	369.3
00/07-33-007-29W1/0	L	71.70	300.5	0.00	0.0	0.52	2.2	302.7
00/08-33-007-29W1/0	-	72.91	305.6	0.03	0.1	3.07	12.9	318.6
00/09-33-007-29W1/0	CA	74.06	310.4	0.00	0.0	2.20	9.2	319.6
00/10-33-007-29W1/0	-	79.88	334.8	0.00	0.0	0.00	0.0	334.8
00/11-33-007-29W1/0	-	91.02	381.5	0.00	0.0	0.00	0.0	381.5
00/12-33-007-29W1/0	CA	97.67	409.4	0.00	0.0	0.56	2.3	411.7
00/13-33-007-29W1/0	-	87.84	368.2	0.00	0.0	0.37	1.6	369.7

Table 2

Company: **Tundra Oil & Gas Limited**  
 Property: **Sinclair Proposed Unit No. 8**

Effective Date: **June 01, 2011**

**Sinclair Proposed Unit No. 8**  
**Original Oil-in-Place Calculation**

<b>LSD</b>	<b>Logs/Core Analysis</b>	<b>GLJ Planimetered Values - Lyleton A phi*H*a (Acre-ft)</b>	<b>OOIP (Mbbbl)</b>	<b>Audited TOGL Planimetered Values - Lyleton B phi*H*a (Acre-ft)</b>	<b>OOIP (Mbbbl)</b>	<b>Audited TOGL Planimetered Values - Mid Bakken phi*H*a (Acre-ft)</b>	<b>OOIP (Mbbbl)</b>	<b>Total OOIP (all zones) Mbbbl</b>
00/14-33-007-29W1/0	-	94.38	395.6	0.00	0.0	0.00	0.0	395.6
00/15-33-007-29W1/0	-	93.49	391.9	0.00	0.0	0.00	0.0	391.9
00/16-33-007-29W1/0	-	81.78	342.8	0.00	0.0	1.66	7.0	349.7
		<b>Section 33-007-29W1</b>	<b>5675.1</b>	<b>Section 33-007-29W1</b>	<b>7.3</b>	<b>Section 33-007-29W1</b>	<b>122.3</b>	<b>5804.7</b>
		<b>Total OOIP (Mbbbl) =</b>	<b>12634.0</b>	<b>Total OOIP (Mbbbl) =</b>	<b>136.8</b>	<b>Total OOIP (Mbbbl) =</b>	<b>682.2</b>	<b>13453.0</b>
		<b>Avg SW (Frac) =</b>	<b>0.45</b>	<b>Avg SW (Frac) =</b>	<b>0.45</b>	<b>Avg SW (Frac) =</b>	<b>0.45</b>	

Table 2.1  
Effective Date: **June 01, 2011**

Company: **Tundra Oil & Gas Limited**  
Property: **Sinclair Proposed Unit No. 8**

### Oil Reservoir Parameters

Resource Entity	Zone	Method	Reserve Class	Area acre	Net Pay ft	Porosity %	Water Sat'n %	Original Pressure psi	Reservoir Temp. °R	Oil Gravity oAPI	Oil Solution GOR	Formation Volume Factor	Original Oil In Place Mbbbl	Recovery Factor %	Recoverable Reserves Mbbbl	Cum Production 2011-06-01 Mbbbl	Remaining 2011-06-01 Reserves	Notes
<b>Proved Producing</b>																		
Sinclair Proposed Unit No 8	BAKKEN-THREE FOR...	Vol,Dec	A	-	-	-	-	-	-	-	-	-	13,453.0	9.2	1,237.7	849.2	388.5	[1]
<b>Total: Proved Producing</b>																		
<b>Total Proved</b>																		
Sinclair Proposed Unit No 8	BAKKEN-THREE FOR...	Vol,Dec	C	-	-	-	-	-	-	-	-	-	13,453.0	15.6	2,100.2	849.2	1,250.9	[1]
<b>Total: Total Proved</b>																		
<b>Proved Plus Probable Producing</b>																		
Sinclair Proposed Unit No 8	BAKKEN-THREE FOR...	Vol,Dec	G	-	-	-	-	-	-	-	-	-	13,453.0	10.0	1,345.3	849.2	496.1	[1]
<b>Total: Proved Plus Probable Producing</b>																		
<b>Total Proved Plus Probable</b>																		
Sinclair Proposed Unit No 8	BAKKEN-THREE FOR...	Vol,Dec	I	-	-	-	-	-	-	-	-	-	13,453.0	21.1	2,832.3	849.2	1,983.1	[1]
<b>Total: Total Proved Plus Probable</b>																		

Table 2.2  
Effective Date: **June 01, 2011**

Company: **Tundra Oil & Gas Limited**  
Property: **Sinclair Proposed Unit No. 8**

### Oil Decline Parameters

Resource Entity	Zone	Method	Res. Class	Decline Type	Analysis Data							Cum Production 2011-06-01 Mbbl	Cum Production @ Analysis Mbbl	Remaining Reserves 2011-06-01 Mbbl	Notes
					Analysis Date	Initial Effective Decline	Initial Rate bbl/d	Final Rate bbl/d	Decline Exponent	Reserve Life yrs	Original Recoverable Reserve Mbbl				
Proved Producing Sinclair Proposed Unit No 8	BAKKEN-THREE FORKS B	Vol,Dec	A	OR	2011-06-01	17.91	222.00	25.00	0.10	12.2	1,237.7	849.2	849.2	388.5	[1]
Total: Proved Producing							222.00				1,237.7	849.2	849.2	388.5	
Total Proved Sinclair Proposed Unit No 8	BAKKEN-THREE FORKS B	Vol,Dec	C	OR	2011-06-01	6.29	222.00	38.00	0.30	35.5	2,100.2	849.2	849.2	1,250.9	[1]
Total: Total Proved							222.00				2,100.2	849.2	849.2	1,250.9	
Proved Plus Probable Producing Sinclair Proposed Unit No 8	BAKKEN-THREE FORKS B	Vol,Dec	G	OR	2011-06-01	16.30	222.00	25.00	0.30	16.9	1,345.3	849.2	849.2	496.1	[1]
Total: Proved Plus Probable Producing							222.00				1,345.3	849.2	849.2	496.1	
Total Proved Plus Probable Sinclair Proposed Unit No 8	BAKKEN-THREE FORKS B	Vol,Dec	I	OR	2011-06-01	4.62	222.00	38.00	0.50	59.2	2,832.3	849.2	849.2	1,983.1	[1]
Total: Total Proved Plus Probable							222.00				2,832.3	849.2	849.2	1,983.1	

The reserves calculated above may not match the economic forecasts due to economic limit considerations.

#### Glossary

A: Proved Producing  
C: Total Proved  
G: Proved Plus Probable Producing  
I: Total Proved Plus Probable

#### Notes

- 2011-Jun-14 Non-producing reserves are assigned for incremental waterflood recovery from Sinclair Proposed Unit No. 8 with total proved and total proved plus probable recovery factors of 15.6% and 21.1%, respectively. The OOIP of 13.5 MMbbl is determined from planimetering porosity\*net pay mapping for the Lyleton A (GLJ map), Lyleton B (Audited Tundra map) and Mid Bakken (Audited Tundra map) intervals. Tundra has plans to drill the required 8 horizontal water injectors in Q4 2011 with injection scheduled to start in January 2012. An additional 2 "between unit" injectors will be drilled in 2012 and total proved and total proved plus probable recovery factor estimates include incremental recovery based on incremental OOIP sweep calculations.

## Appendix 19

### Proposed Sinclair Unit No. 8

#### LYLETON / THREE FORKS FORMATION ROCK & FLUID PARAMETERS

Formation Pressure	9500 kPa	Initial Average Reservoir Pressure
Formation Temperature	30°C	
Saturation Pressure	2,034 Kpa	Bubble Point
GOR	6 - 10 m3/m3	Gas Oil Ratio
API Oil Gravity	40	
Swi (fraction)	0.40	Initial Water Saturation
Produced Water Specific Gravity	1.08	
Produced Water pH	7.1 - 7.3	
Produced Water TDS	125,000	
Wettability	Moderately oil-wet	
Average Air Permeability*	Middle Bakken Lyleton A Lyleton B	Wt. Average Core Data  * no data
Average Porosity (fraction)*	Middle Bakken Lyleton A Lyleton B	Wt. Average Core Data  * no data

\* Wt ave from all MBKKN/Lyleton cores in Sections 28, 32 and 33-8-28W1M.



## Appendix 20: Sinclair Proposed Unit 8 Well List

UWI	Prod Date	Monthly		Avg Dly		Cal Dly		Cum Prd		Monthly		Avg Dly		Cal Dly		Cum Prd		WTR Cut (%)		OIL Cut (%)		CCT (%)
		Oil (bbl)	Oil (bbl/d)	Oil (bbl/d)	Oil (bbl/d)	Oil (bbl/d)	Oil (bbl)	Water (bbl)	Water (bbl/d)	Water (bbl/d)	Water (bbl)	Water (bbl/d)	Water (bbl/d)	Water (bbl/d)	Water (bbl)	Water (bbl)	WTR Cut (%)	OIL Cut (%)				
102/02-28-007-29W1/00	2011-03	227.8	7.3	7.3	7.3	7.3	14902.1	113.9	3.7	3.7	3.7	3.7	3.7	3.7	3.7	7244.9	33.3	66.7	66.7	0.00		
100/03-28-007-29W1/00	2011-03	186.9	6.4	6.4	6	6	18160.6	100.6	3.5	3.5	3.2	3.2	3.2	3.2	3.2	8367.1	35	65	65	0.00		
100/04-28-007-29W1/00	2011-03	137.2	5.1	5.1	4.4	4.4	26696.9	96.9	3.6	3.6	3.1	3.1	3.1	3.1	3.1	16244.8	41.4	58.6	58.6	0.00		
100/05-28-007-29W1/00	2011-03	249.2	8	8	8	8	23253.4	115.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	11444.8	31.7	68.3	68.3	0.00		
100/06-28-007-29W1/00	2011-03	225.3	7.3	7.3	7.3	7.3	17380.9	82.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	8117.4	26.8	73.2	73.2	0.00		
100/07-28-007-29W1/00	2011-03	227.2	7.3	7.3	7.3	7.3	16281.5	98.8	3.2	3.2	3.2	3.2	3.2	3.2	3.2	9375.4	30.3	69.7	69.7	0.00		
100/09-28-007-29W1/00	2011-03	182.5	6.3	6.3	5.9	5.9	15002.8	139.6	4.8	4.8	4.5	4.5	4.5	4.5	4.5	9212.5	43.4	56.6	56.6	0.00		
100/10-28-007-29W1/00	2011-03	208.9	7.2	7.2	6.7	6.7	21026.4	102.5	3.5	3.5	3.3	3.3	3.3	3.3	3.3	8507.4	32.9	67.1	67.1	0.00		
100/11-28-007-29W1/00	2011-03	203.9	7.3	7.3	6.6	6.6	20136.6	107.6	3.8	3.8	3.5	3.5	3.5	3.5	3.5	9608.8	34.5	65.5	65.5	0.00		
100/12-28-007-29W1/00	2011-03	144.7	4.7	4.7	4.7	4.7	46182.1	62.3	2	2	2	2	2	2	2	9698.7	30.1	69.9	69.9	0.00		
100/13-28-007-29W1/00	2011-03	130.9	4.5	4.5	4.2	4.2	13715.3	91.8	3.2	3.2	3	3	3	3	3	7480.8	41.2	58.8	58.8	0.00		
100/14-28-007-29W1/00	2011-03	310.2	10	10	10	10	23087.3	86.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	8680.3	21.9	78.1	78.1	0.00		
100/15-28-007-29W1/00	2011-03	174.9	6	6	5.6	5.6	19946.5	111.3	3.8	3.8	3.6	3.6	3.6	3.6	3.6	10473.6	38.9	61.1	61.1	0.00		
100/16-28-007-29W1/00	2011-03	197	6.4	6.4	6.4	6.4	18468.9	96.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	9653.4	32.8	67.2	67.2	0.00		
100/09-32-007-29W1/00	2011-03	188.2	6.5	6.5	6.1	6.1	26361.5	191.8	6.6	6.6	6.2	6.2	6.2	6.2	6.2	14916.3	50.5	49.5	49.5	0.00		
100/10-32-007-29W1/00	2011-03	113.9	3.9	3.9	3.7	3.7	15883.2	137.8	4.8	4.8	4.4	4.4	4.4	4.4	4.4	14237.6	54.8	45.3	45.3	0.00		
100/11-32-007-29W1/00	2011-03	127.1	4.1	4.1	4.1	4.1	8209.7	146.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7	16221.5	53.6	46.4	46.4	0.00		
100/12-32-007-29W1/00	2011-03	85.6	2.8	2.8	2.8	2.8	4330.8	132.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3	16272.5	60.8	39.2	39.2	0.00		
100/13-32-007-29W1/00	2011-03	128.4	4.1	4.1	4.1	4.1	15096	154.7	5	5	5	5	5	5	5	14893.1	54.7	45.3	45.3	0.00		
100/14-32-007-29W1/00	2011-03	97.5	3.4	3.4	3.1	3.1	25923.5	91.8	3.2	3.2	3	3	3	3	3	12707.3	48.5	51.5	51.5	0.00		
100/15-32-007-29W1/00	2011-03	387	12.5	12.5	12.5	12.5	30329.7	133.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	9468.5	25.6	74.4	74.4	0.00		
100/16-32-007-29W1/00	2011-03	0	0	0	0	0	25792	219.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1	18019.9	100	0	0	0.00		
100/01-33-007-29W1/00	2011-03	131.5	4.2	4.2	4.2	4.2	18776.7	61	2	2	2	2	2	2	2	9459.7	31.7	68.3	68.3	0.00		
100/02-33-007-29W1/00	2011-03	276.9	8.9	8.9	8.9	8.9	33916.1	144.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	15721.5	34.3	65.7	65.7	0.00		
100/03-33-007-29W1/00	2011-03	87.5	2.9	2.9	2.8	2.8	11089.9	113.2	3.8	3.8	3.7	3.7	3.7	3.7	3.7	16029.7	56.4	43.6	43.6	0.00		
100/04-33-007-29W1/00	2011-03	46.6	1.5	1.5	1.5	1.5	6200.4	139.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5	21850.5	75	25	25	0.00		
100/05-33-007-29W1/00	2011-03	32.1	1.1	1.1	1	1	3515.8	147.2	4.9	4.9	4.7	4.7	4.7	4.7	4.7	19632	82.1	17.9	17.9	0.00		
100/06-33-007-29W1/00	2011-03	115.8	3.7	3.7	3.7	3.7	15061.4	130.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	16102	52.9	47.1	47.1	0.00		
100/07-33-007-29W1/00	2011-03	214	6.9	6.9	6.9	6.9	25123.7	124.5	4	4	4	4	4	4	4	12717.3	36.8	63.2	63.2	0.00		
100/08-33-007-29W1/00	2011-03	202	6.5	6.5	6.5	6.5	20258.6	89.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	10202.5	30.8	69.2	69.2	0.00		
100/09-33-007-29W1/00	2011-03	194.4	6.3	6.3	6.3	6.3	37419.3	56.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	10904.5	22.6	77.4	77.4	0.00		
100/10-33-007-29W1/00	2011-03	222.1	7.2	7.2	7.2	7.2	31797.2	70.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	10849.2	24.1	75.9	75.9	0.00		
100/11-33-007-29W1/00	2011-03	171.2	5.5	5.5	5.5	5.5	27784.9	96.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1	11376.9	36.2	63.8	63.8	0.00		
100/12-33-007-29W1/00	2011-03	114.5	3.9	3.9	3.7	3.7	24386.8	79.3	2.7	2.7	2.6	2.6	2.6	2.6	2.6	11919.7	40.9	59.1	59.1	0.00		
100/13-33-007-29W1/00	2011-03	375.1	12.1	12.1	12.1	12.1	32427.2	93.1	3	3	3	3	3	3	3	10424	19.9	80.1	80.1	0.00		
100/14-33-007-29W1/00	2011-03	408.4	13.2	13.2	13.2	13.2	34968.8	84.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7	9500.6	17.1	82.9	82.9	0.00		
100/15-33-007-29W1/00	2011-03	359.3	11.6	11.6	11.6	11.6	29261.8	67.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	9926.4	15.9	84.1	84.1	0.00		
100/16-33-007-29W1/00	2011-03	536.2	17.3	17.3	17.3	17.3	37471.5	86.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8	9342.7	13.9	86.1	86.1	0.00		

# EXHIBIT 'A': TRACT PARTICIPATION

## Appendix 21

### Proposed SINCLAIR UNIT NO. 8

Attached to and made part of an Agreement Entitled  
Sinclair Unit No. 8 - Unit Agreement

Working Interest				Royalty Interest		Tract Participation %
Tract No.	Land Description	Owner	Share (%)	Owner	Share (%)	
1	LSD 2-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF MANITOBA	100%	2.644160181
2	LSD 3-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF MANITOBA	100%	2.956328911
3	LSD 4-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF MANITOBA	100%	2.003782222
4	LSD 5-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF MANITOBA	100%	3.134131284
5	LSD6-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF MANITOBA	100%	2.565240983
6	LSD 7-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF MANITOBA	100%	1.904197277
7	LSD 9-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	J A W Farms Ltd	49.22%	2.488636806
				W & D Anderson Farm Ltd	49.22%	
				Maywell Mineral Holdings Ltd.	1.56%	
8	LSD 10-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	J A W Farms Ltd	50%	2.719013009
				W & D Anderson Farm Ltd	50%	
9	LSD 11-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	R A M Oil Ltd	50%	2.682089021
				Mazoil Oil Ltd	50%	
10	LSD 12-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	R A M Oil Ltd	50%	2.497105616
				Mazoil Oil Ltd	50%	
11	LSD 13-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	R A M Oil Ltd	50%	2.707939007
				Mazoil Oil Ltd	50%	
12	LSD14-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	R A M Oil Ltd	50%	3.076964784
				Mazoil Oil Ltd	50%	
13	LSD 15-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	J A W Farms Ltd	50%	3.289774475
				W & D Anderson Farm Ltd	50%	
14	LSD 16-28-7-29 WPM	Tundra Oil & Gas Partnership	100%	J A W Farms Ltd	50%	2.793615981
				W & D Anderson Farm Ltd	50%	
15	LSD 9-32-7-29 WPM	Tundra Oil & Gas Partnership	100%	HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF MANITOBA	100%	3.073209851
16	LSD 10-32-7-29 WPM	Tundra Oil & Gas Partnership	100%	HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF MANITOBA	100%	2.475212853
17	LSD 11-32-7-29 WPM	Tundra Oil & Gas Partnership	100%	University of Manitoba	100%	1.724739771
18	LSD 12-32-7-29 WPM	Tundra Oil & Gas Partnership	100%	University of Manitoba	100%	1.627442050
19	LSD 13-32-7-29 WPM	Tundra Oil & Gas Partnership	100%	University of Manitoba	100%	2.338079790
20	LSD 14-32-7-29 WPM	Tundra Oil & Gas Partnership	100%	University of Manitoba	100%	3.132005062
21	LSD 15-32-7-29 WPM	Tundra Oil & Gas Partnership	100%	HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF MANITOBA	100%	2.765176479
22	LSD 16-32-7-29 WPM	Tundra Oil & Gas Partnership	100%	HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF MANITOBA	100%	3.039355138
23	LSD 1-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	2.214167902
24	LSD 2-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	2.818795594
25	LSD 3-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	2.210587083

## Proposed SINCLAIR UNIT NO. 8

Attached to and made part of an Agreement Entitled  
Sinclair Unit No. 8 - Unit Agreement

Working Interest				Royalty Interest		Tract Participation %
Tract No.	Land Description	Owner	Share (%)	Owner	Share (%)	
26	LSD 4-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	1.529782908
27	LSD 5-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	1.789928032
28	LSD 6-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	2.650598818
29	LSD 7-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	2.490883761
30	LSD 8-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	2.348302503
31	LSD 9-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	3.005500903
32	LSD 10-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	3.152388613
33	LSD 11-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	3.261060597
34	LSD 12-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	2.740104553
35	LSD 13-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	2.599025848
36	LSD 14-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	3.269177399
37	LSD 15-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	3.074955226
38	LSD 16-33-7-29 WPM	Tundra Oil & Gas Partnership	100%	Dittmer Holdings Ltd	100%	3.206539708

100.000000000

# TUNDRA OIL & GAS LIMITED

## Appendix 22

50% OOIP and 50% 1st 90 days (2160 hours) Production Method

### SINCLAIR UNIT NO. 8

#### DETERMINATION OF TRACT FACTORS BASED ON FIRST 90 PRODUCING DAYS

Section	Well / LSD	First 90 Days of Production			Tract Factor	
		Oil Volume (m <sup>3</sup> )	Produced (hours)	Produced (days)	100% Production (%)	50% Production (%)
28-7-29	2A-28-7-29	500.7	2,160.0	90	2.445046100	1.222523050
	3-28-7-29	628.8	2,160.0	90	3.070870240	1.535435120
	4-28-7-29	242.1	2,160.0	90	1.182130333	0.591065166
	5-28-7-29	757.5	2,160.0	90	3.699280645	1.849640323
	6-28-7-29	519.3	2,160.0	90	2.536226495	1.268113248
	7-28-7-29	423.1	2,160.0	90	2.066006351	1.033003176
	9-28-7-29	535.0	2,160.0	90	2.612710101	1.306355050
	10-28-7-29	646.6	2,160.0	90	3.157459891	1.578729946
	11-28-7-29	581.4	2,160.0	90	2.839053161	1.419526581
	12-28-7-29	558.7	2,160.0	90	2.728511897	1.364255949
	13-28-7-29	629.7	2,160.0	90	3.075101372	1.537550686
	14-28-7-29	643.1	2,160.0	90	3.140430519	1.570215260
	15-28-7-29	759.9	2,160.0	90	3.711001138	1.855500569
	16-28-7-29	544.1	2,160.0	90	2.656986958	1.328493479
	<b>Total</b>	<b>7969.8</b>				
	<b>% of Total Unit</b>	<b>38.9</b>			<b>38.920815203</b>	<b>19.460407602</b>
32-7-29	9-32-7-29	631.5	2,160.0	90	3.083860236	1.541930118
	10-32-7-29	465.9	2,160.0	90	2.275146209	1.137573105
	11-32-7-29	183.8	2,160.0	90	0.897594432	0.448797216
	12-32-7-29	115.5	2,160.0	90	0.563994471	0.281997235
	13-32-7-29	442.4	2,160.0	90	2.160698115	1.080349057
	14-32-7-29	800.5	2,160.0	90	3.909110029	1.954555015
	15-32-7-29	641.1	2,160.0	90	3.130852482	1.565426241
	16-32-7-29	713.1	2,160.0	90	3.482224787	1.741112393
	<b>Total</b>	<b>3993.7</b>				
	<b>% of Total Unit</b>	<b>19.5</b>			<b>19.503480760</b>	<b>9.751740380</b>
33-7-29	1-33-7-29	402.4	2,160.0	90	1.964908117	0.982454058
	2-33-7-29	616.2	2,160.0	90	3.009142092	1.504571046
	3-33-7-29	309.0	2,160.0	90	1.508769314	0.754384657
	4-33-7-29	81.0	2,160.0	90	0.395436416	0.197718208
	5-33-7-29	87.2	2,160.0	90	0.425865817	0.212932908
	6-33-7-29	523.4	2,160.0	90	2.556044211	1.278022105
	7-33-7-29	559.4	2,160.0	90	2.731678321	1.365839160
	8-33-7-29	476.8	2,160.0	90	2.328324796	1.164162398
	9-33-7-29	744.4	2,160.0	90	3.635288200	1.817644100
	10-33-7-29	781.4	2,160.0	90	3.816075989	1.908037995
	11-33-7-29	754.8	2,160.0	90	3.686280328	1.843140164
	12-33-7-29	495.5	2,160.0	90	2.419879658	1.209939829
	13-33-7-29	501.7	2,160.0	90	2.449924913	1.224962456
	14-33-7-29	736.7	2,160.0	90	3.597703038	1.798851519
	15-33-7-29	662.8	2,160.0	90	3.236762260	1.618381130
	16-33-7-29	780.9	2,160.0	90	3.813620567	1.906810284
	<b>Total</b>	<b>8513.4</b>				
	<b>% of Total Unit</b>	<b>41.6</b>			<b>41.575704037</b>	<b>20.787852018</b>
<b>Total Production</b>		<b>20,477.0</b>	<b>m<sup>3</sup></b>		<b>Tract Factors</b>	<b>Tract Factors</b>
		<b>100.0000</b>	<b>%</b>		<b>100% Production</b>	<b>50% Production</b>
					<b>(%)</b>	<b>(%)</b>
					<b>100.000000000</b>	<b>50.000000000</b>

# TUNDRA OIL & GAS LIMITED

## Appendix 23

50% of OOIP and 50% 1st 2160 hours Production Method

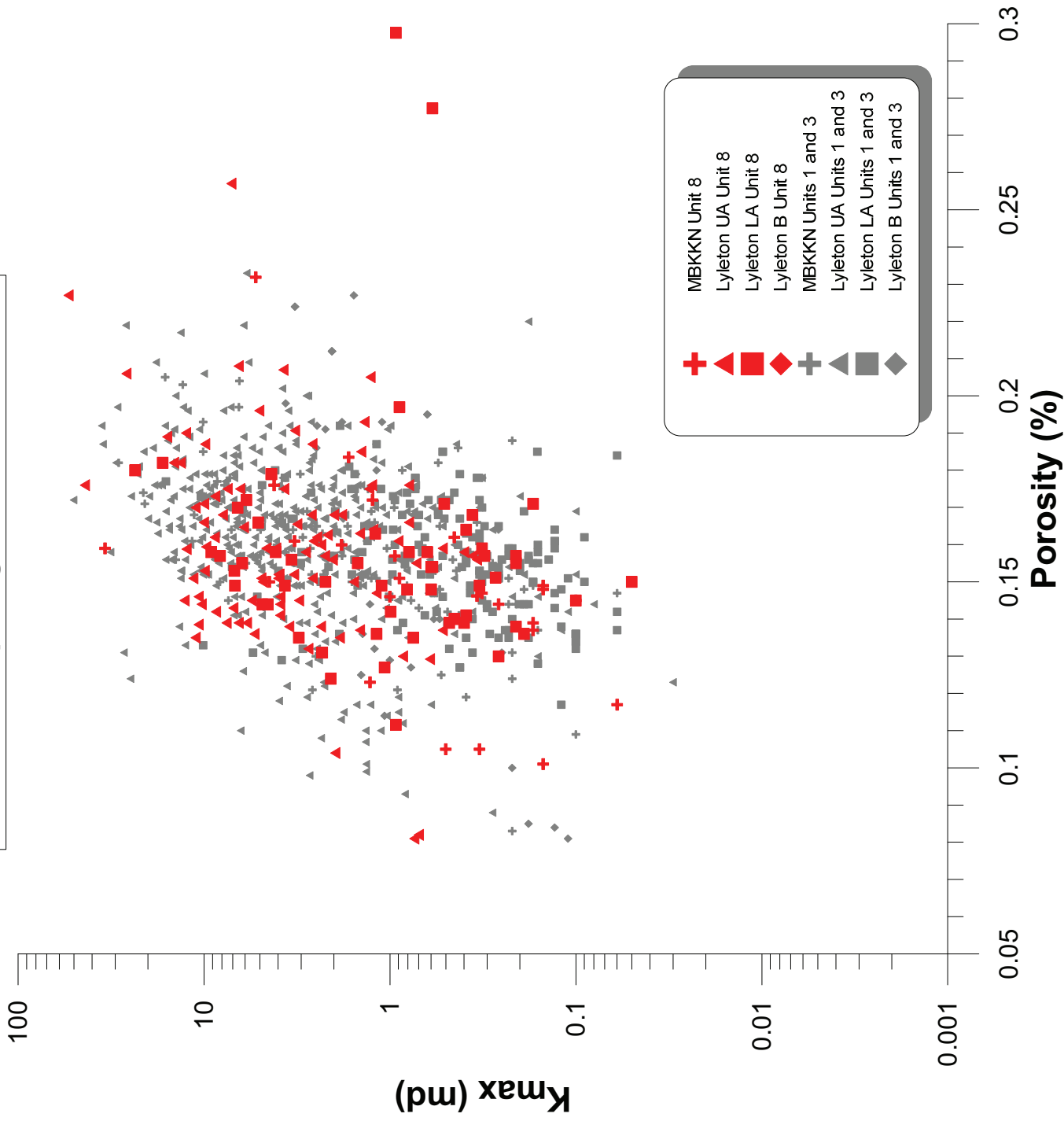
### SINCLAIR UNIT NO. 8

TRACT FACTORS BASED ON OIL-IN-PLACE (OOIP) & PRODUCTION FIRST 90 PRODUCING DAYS (2160 HRS)

#### Determination of Working Interests in Proposed Unit

Section	OOIP (Mbbbl)	Tract Factor 100% OOIP	Tract Factor 50% OOIP	Well	Tract Factor 100% Production	Tract Factor 50% Production	TOTAL Tract Factor
<b>Section 28-7-29</b>							
2A-28-7-29	382.5	2.843274263	1.421637131	2A-28-7-29	2.445046100	1.222523050	2.644160181
3-28-7-29	382.3	2.841787583	1.420893792	3-28-7-29	3.070870240	1.535435120	2.956328911
4-28-7-29	380.1	2.825434110	1.412717055	4-28-7-29	1.182130333	0.591065166	2.003782222
5-28-7-29	345.6	2.568981922	1.284490961	5-28-7-29	3.699280645	1.849640323	3.134131284
6-28-7-29	349.0	2.594255471	1.297127735	6-28-7-29	2.536226495	1.268113248	2.565240983
7-28-7-29	234.4	1.742388202	0.871194101	7-28-7-29	2.066006351	1.033003176	1.904197277
9-28-7-29	318.1	2.364563511	1.182281755	9-28-7-29	2.612710101	1.306355050	2.488636806
10-28-7-29	306.8	2.280566127	1.140283064	10-28-7-29	3.157459891	1.578729946	2.719013009
11-28-7-29	339.7	2.525124881	1.262562441	11-28-7-29	2.839053161	1.419526581	2.682089021
12-28-7-29	304.8	2.265699334	1.132849667	12-28-7-29	2.728511897	1.364255949	2.497105616
13-28-7-29	314.9	2.340776641	1.170388321	13-28-7-29	3.075101372	1.537550686	2.707939007
14-28-7-29	405.4	3.013499049	1.506749524	14-28-7-29	3.140430519	1.570215260	3.076964784
15-28-7-29	385.9	2.868547812	1.434273906	15-28-7-29	3.711001138	1.855500569	3.289774475
16-28-7-29	394.2	2.930245005	1.465122502	16-28-7-29	2.656986958	1.328493479	2.793615981
<b>Total Section 28-7-29</b>	<b>4843.7</b>	<b>36.005143911</b>	<b>18.002571955</b>		<b>38.920815203</b>	<b>19.460407602</b>	<b>37.462979557</b>
<b>Section 32-7-29</b>							
9-32-7-29	412.0	3.062559467	1.531279734	9-32-7-29	3.083860236	1.541930118	3.073209851
10-32-7-29	359.9	2.675279496	1.337639748	10-32-7-29	2.275146209	1.137573105	2.475212853
11-32-7-29	343.3	2.551885109	1.275942555	11-32-7-29	0.897594432	0.448797216	1.724739771
12-32-7-29	362.0	2.690889629	1.345444814	12-32-7-29	0.563994471	0.281997235	1.627442050
13-32-7-29	338.4	2.515461465	1.257730733	13-32-7-29	2.160698115	1.080349057	2.338079790
14-32-7-29	316.8	2.354900095	1.177450048	14-32-7-29	3.909110029	1.954555015	3.132005062
15-32-7-29	322.8	2.399500476	1.199750238	15-32-7-29	3.130852482	1.565426241	2.765176479
16-32-7-29	349.3	2.596485490	1.298242745	16-32-7-29	3.482224787	1.741112393	3.039355138
<b>Total Section 32-7-29</b>	<b>2804.5</b>	<b>20.846961227</b>	<b>10.423480614</b>		<b>19.503480760</b>	<b>9.751740380</b>	<b>20.175220994</b>
<b>Section 33-7-29</b>							
1-33-7-29	331.4	2.463427688	1.231713844	1-33-7-29	1.964908117	0.982454058	2.214167902
2-33-7-29	353.6	2.628449096	1.314224548	2-33-7-29	3.009142092	1.504571046	2.818795594
3-33-7-29	391.8	2.912404853	1.456202426	3-33-7-29	1.508769314	0.754384657	2.210587083
4-33-7-29	358.4	2.664129401	1.332064700	4-33-7-29	0.395436416	0.197718208	1.529782908
5-33-7-29	424.3	3.153990247	1.576995124	5-33-7-29	0.425865817	0.212932908	1.789928032
6-33-7-29	369.3	2.745153425	1.372576713	6-33-7-29	2.556044211	1.278022105	2.650598818
7-33-7-29	302.7	2.250089201	1.125044600	7-33-7-29	2.731678321	1.365839160	2.490883761
8-33-7-29	318.6	2.368280209	1.184140105	8-33-7-29	2.328324796	1.164162398	2.348302503
9-33-7-29	319.6	2.375713606	1.187856803	9-33-7-29	3.635288200	1.817644100	3.005500903
10-33-7-29	334.8	2.488701237	1.244350618	10-33-7-29	3.816075989	1.908037995	3.152388613
11-33-7-29	381.5	2.835840866	1.417920433	11-33-7-29	3.686280328	1.843140164	3.261060597
12-33-7-29	411.7	3.060329448	1.530164724	12-33-7-29	2.419879658	1.209939829	2.740104553
13-33-7-29	369.7	2.748126784	1.374063392	13-33-7-29	2.449924913	1.224962456	2.599025848
14-33-7-29	395.6	2.940651760	1.470325880	14-33-7-29	3.597703038	1.798851519	3.269177399
15-33-7-29	391.9	2.913148192	1.456574096	15-33-7-29	3.236762260	1.618381130	3.074955226
16-33-7-29	349.7	2.599458849	1.299729424	16-33-7-29	3.813620567	1.906810284	3.206539708
<b>Total Section 33-7-29</b>	<b>5804.6</b>	<b>43.147894862</b>	<b>21.573947431</b>		<b>41.575704037</b>	<b>20.787852018</b>	<b>42.361799449</b>
<b>Total</b>	<b>13452.8</b>	<b>100.000000000</b>	<b>50.000000000</b>		<b>100.000000000</b>	<b>50.000000000</b>	<b>100.000000000</b>

**Porosity-Permeability Comparison**  
All Zones  
**Sinclair Unit 7 and Units 1 and 3**  
Twp 8 Rge 29W1M





# Sinclair Unit No. 8

## EOR Waterflood Project

### **Planned Corrosion Control Program** \*\*

#### **Source Well**

- Continuous downhole corrosion inhibition
- Continuous surface corrosion inhibitor injection
- Downhole scale inhibitor injection
- Corrosion resistant valves and internally coated surface piping

#### **Pipelines**

- Source well to 3-4-8-29 Water Plant – Fiberglass
- New High Pressure Pipeline to Unit 7 injection wells – 2000 psi high pressure Fiberglass

#### **Facilities**

- 3-4-8-29 Water Plant and New Injection Pump Station
  - Plant piping – 600 ANSI schedule 80 pipe, Fiberglass or Internally coated
  - Filtration – Stainless steel bodies and PVC piping
  - Pumping – Ceramic plungers, stainless steel disc valves
  - Tanks – Fiberglass shell, corrosion resistant valves

#### **Injection Wellhead / Surface Piping**

- Corrosion resistant valves and stainless steel and/or internally coated steel surface piping

#### **Injection Well**

- Casing cathodic protection where required
- Wetted surfaces coated downhole packer
- Corrosion inhibited water in the annulus between tubing / casing
- Internally coated tubing surface to packer
- Surface freeze protection of annular fluid
- Corrosion resistant master valve
- Corrosion resistant pipeline valve

#### **Producing Wells**

- Casing cathodic protection where required
- Downhole batch corrosion inhibition as required
- Downhole scale inhibitor injection as required