BIRDTAIL UNIT NO. 2

WATERFLOOD EOR PROJECT

ANNUAL REPORT FOR 2013

March 14, 2014

Tundra Oil and Gas Partnership

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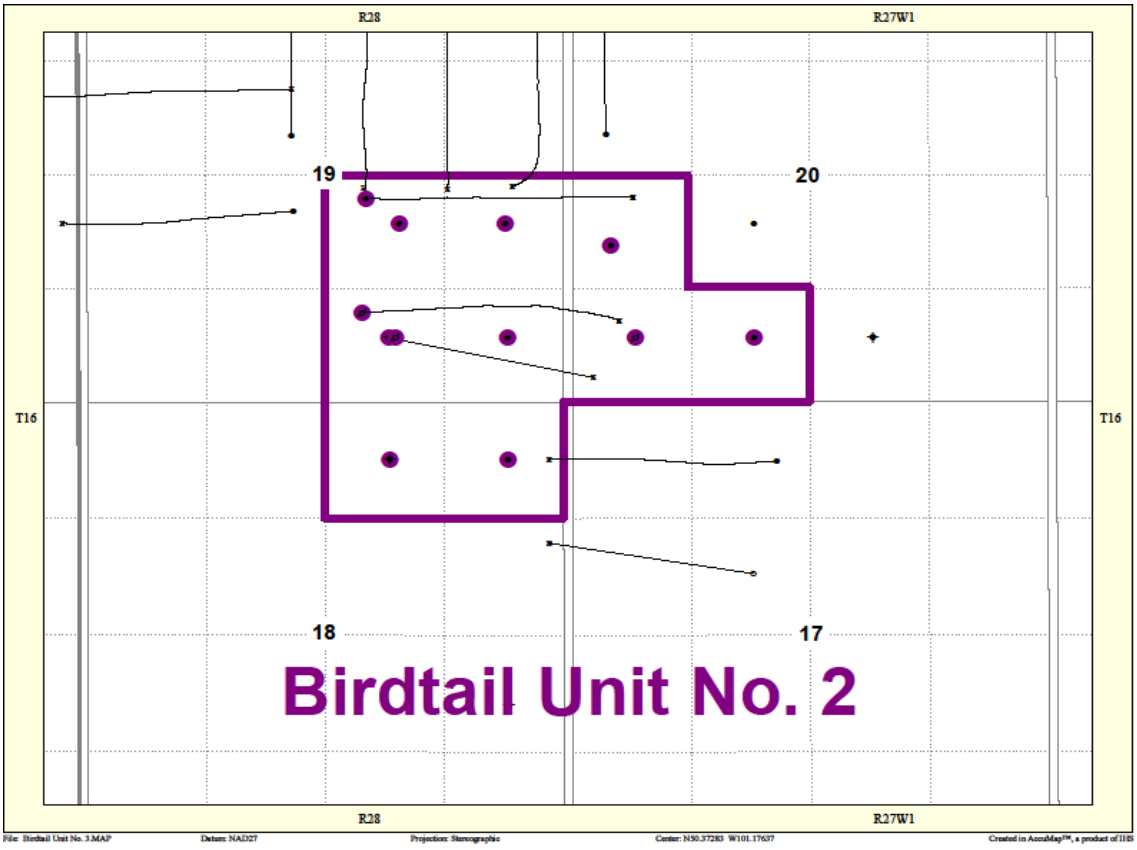
INTRODUCTION

Birdtail Unit No. 2 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Waterflood Order No. 8 effective December 1, 2000 with Progress Energy Production Partnership as Operator. Tundra acquired the unit from Progress Energy Production Partnership and become operator in October 2003. The EOR project area contains 12 wells in 9 LSDs in Township 16, Range 27 W1 as shown in the figure below. Well list and well status is available in Appendix A.

Figure 1: Birdtail Unit No. 2 Area Outline



In accordance with Section 73 of the Manitoba Drilling and Production Regulation, Tundra hereby submits the 2013 Annual Progress Report for Birdtail Unit No. 2 as required by Waterflood Order No. 8.

DISCUSSION

Production History

For the wells included in Birdtail Unit No. 2, production started January 1997 with 00/05-20-016-27W1/0 well. Oil production peaked at 11.8 m³/d in July 1998. The Unit was producing 3.38 m³/d of oil and 10.65 m³/d of water in December 2013 and had an

average WOR of 3.57 m^3/m^3 in 2013. The oil production rate, injection rate, and WOR during each month for each injection pattern and for whole project are presented in Appendix D. The rates and WOR are plotted in Figure 2.

Figure 2: Birdtail Unit No. 2 Production/Injection Rates and WOR vs. Time

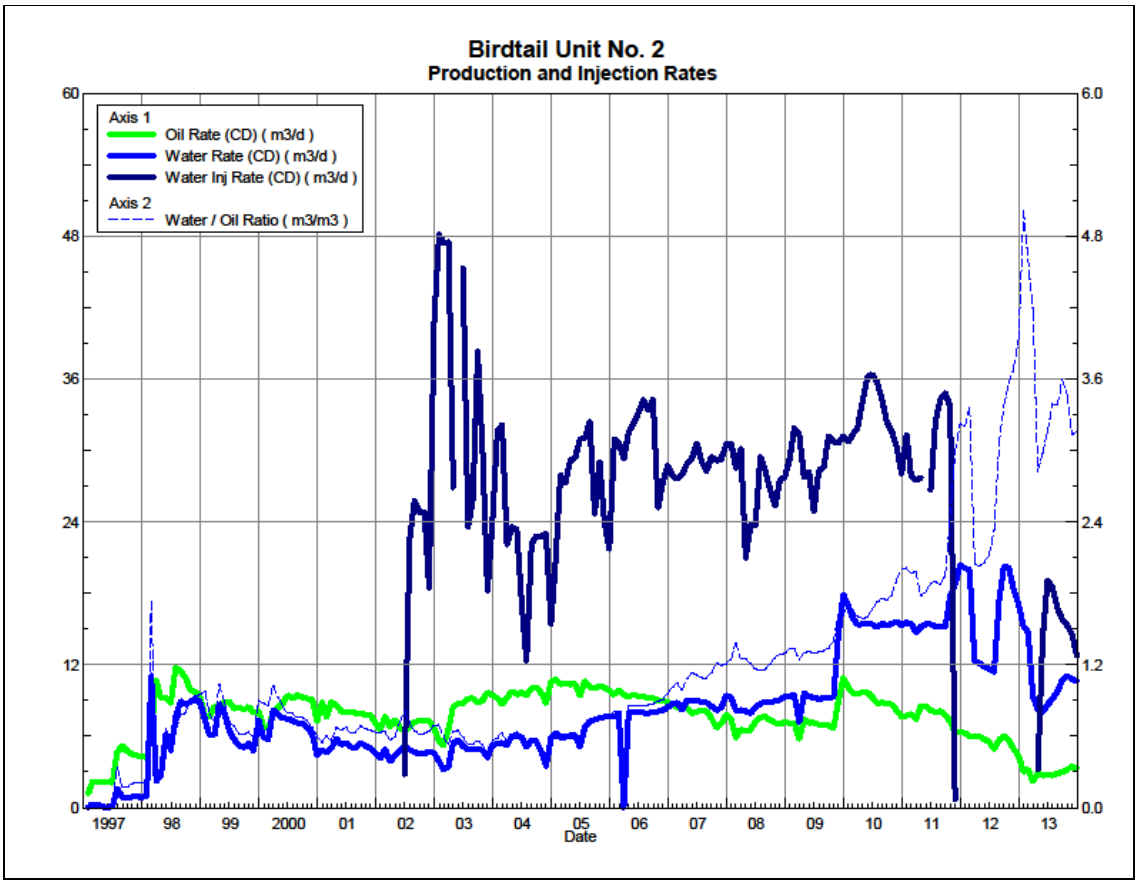
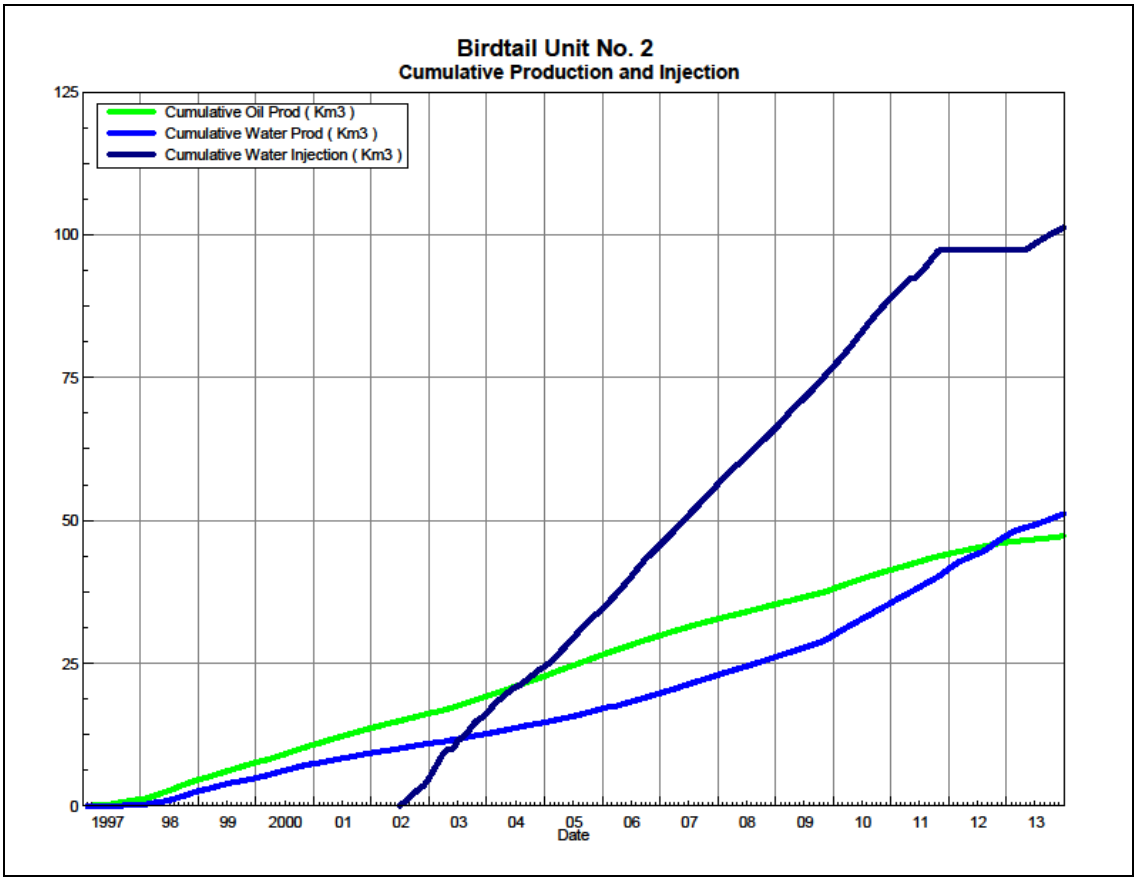


Figure 3 shows the cumulative production for Birdtail Unit No. 2 to the end of December 2013 as 47.3 E^3m^3 of oil, and 51.2 E^3m^3 of water. The cumulative water injected is 101.3 E^3m^3. The cumulative volume of oil, and water produced and fluid injected for each injection pattern and for the whole project for each injection well is presented in Appendix D.

Figure 3: Birdtail Unit No. 2 Cumulative Oil, Water and Water Injected vs. Time



Waterflood History

As of December 2013 the Unit has 1 active horizontal injector at 03/02-19-016-27W1/0. The vertical injectors at 02/02-19-016-27W1/0 (02/02-19) and 00/04-20-016-27W1/0 (00/04-20) were suspended in October 2011. Water injection started in June 2002. An overall summary for each injector pattern is presented in Appendix C.

Any future revisions to the waterflood development or surveillance plan would be based on new production or performance response data, technical studies, or observed reservoir behavior and reserves recovery interpretations.

Waterflood EOR Operations

Water Source and Quality

The injection water for Birdtail Unit No. 2 is sourced from the 00/02-19-016-27W/2 well (Lodgepole formation). The water is treated at the 09-05-16-27W1 battery where it is filtered to 0.50 microns and has scale inhibitor added.

Injection Wellhead Pressures

The monthly wellhead injection pressures for each injection well is summarized in Appendix B, and shows all injection pressure since 2003. In 2011, the average injection pressure for injector 00/04-20 was 7050 kPag and 7100 kPag for 02/02-19. The average injection pressure for the horizontal injector at 03/02-19-016-27W1/0 was 2300 kPag in 2013.

Reservoir Pressure

Where practical, Tundra is committed to collecting pressure data from newly drilled wells. For Birdtail Unit No. 2, pressure data taken in 2012 and 2013 from 4 locations is available (02/02-19, 03/02-19, 04/02-19 and 00/04-20). The reservoir pressures are 5266, 3990, 4646 and 5745 kPa(a), respectively.

Well Servicing

Table 1 lists the maintenance that was required in Birdtail Unit No. 2 in 2013.

Table 1: Service and Maintenance in Birdtail Unit No. 2

02/02-19-016-27W1/0	Downhole Abandonment	03/18/2013

Voidage Replacement

Cumulative voidage for Birdtail Unit No. 2 was 1.03 in December 2013. This is reasonable considering that the wells within the unit have been producing for almost fourteen years. Since 2002, monthly voidage is significantly greater then 1, which is why the Birdtail Unit No. 2 has a cumulative VRR greater than 1. Calculation, plots and tables of the Voidage Replacement Ratio on a monthly and cumulative basis for each injection pattern and for the project area are presented in Appendix D.

In consideration of the cumulative VRR in excess of 1, water injection was suspended in October 2011 in the vertical injectors. Injection in the Unit resumed in April 2013 with the conversion of the horizontal producer at 03/02-19-016-27W1/0 to injection.

Waterflood Performance Discussion

The original oil-in-place (OOIP) of 393 E^3m^3 with cumulative oil recovered to date of 47.3 E^3m^3 results in a recovery factor of 12.0%. The ultimate expected recoverable reserve based on decline analysis is 70 E^3m^3 or an ultimate recovery factor of 17.8%.

The overall performance of this waterflood has been good as indicated by an expected recovery factor of 17.8% and increased or flattened oil production since water injection began in 2002.

The 03/02-19-016-27W1/0 (03/02-19) horizontal well was converted to a water injector in April 2013 after a short production period. The injection rates have been reasonably steady between 14-17 m^3/d and are starting to show some oil response on the offset vertical wells. Ultimately, it is expected that the 02/07-19-016-27W1/0 horizontal well will benefit the most from the new 03/02-19 water injector.

Trends in production since 2013 have seen a decline in inflow and oil cut in some of the vertical producers which is likely due to shutting in the vertical injectors. Even though total field voidage has been maintained well above unity, it may be that local withdrawals of fluid from the horizontal producing wells are resulting in lower pressures and drainage. Tundra will be evaluating the response of the reconfigured waterflood in this unit in 2014 and will make any appropriate changes as required to the injection targets and wells.

List of Appendices

Appendix A: Well Name and Well Status

Appendix B: Monthly Injection Wellhead Pressures Table and Plots

Appendix C: Birdtail Unit No. 2 Injection Pattern Summary

Appendix D: Injector Pattern Production/Injection Rates, Cumulative and VRRs Plots and Tables for the following injector**:**

03/02-19-016-27W1/0

Appendix A

UWI	Surface Location	Well Status
100/15-18-016-27W1/00		ABD Producer
100/16-18-016-27W1/00		Capable of OIL Prod
100/01-19-016-27W1/00		Capable of OIL Prod
100/02-19-016-27W1/00		ABD Producer
102/02-19-016-27W1/00		WTR Injection
103/02-19-016-27W1/00	103/04-20-016-27W1/00	WTR Injection
104/02-19-016-27W1/00	104/04-20-016-27W1/00	Completing
100/07-19-016-27W1/00		Capable of OIL Prod
102/07-19-016-27W1/00	102/05-20-016-27W1/00	Capable of OIL Prod
100/08-19-016-27W1/00		Capable of OIL Prod
100/03-20-016-27W1/00		Capable of OIL Prod
100/04-20-016-27W1/00		WTR Injection
100/05-20-016-27W1/00		Capable of OIL Prod

Appendix B

Average Monthly Injection Pressure (kPag)

	Injection Pressure	
Month	100/04-20	102/02-19
Oct-03	8400	8600
Nov-03	8147	8220
Dec-03	8310	8410
Jan-04	8300	8400
Feb-04	8300	8400
Mar-04	8300	8400
Apr-04	8240	8340
May-04	8200	8300
Jun-04	7390	7363
Jul-04	5732	5581
Aug-04	8200	8297
Sep-04	8200	8300
Oct-04	8200	8300
Nov-04	8200	8300
Dec-04	6997	6774
Jan-05	7013	7000
Feb-05	8000	8200
Mar-05	8000	8200
Apr-05	8000	8200
May-05	8035	8200
Jun-05	8100	8200
Jul-05	8100	8200
Aug-05	8100	8200
Sep-05	8203	8303
Oct-05	8300	8400
Nov-05	8300	8400
Dec-05	8197	8297

	Injection Pressure	
Month	100/04-20	102/02-19
Jan-06	8100	8200
Feb-06	8100	8200
Mar-06	8100	8200
Apr-06	8100	8200
May-06	8100	8200
Jun-06	8100	8200
Jul-06	8100	8200
Aug-06	8100	8200
Sep-06	8100	8200
Oct-06	8055	8155
Nov-06	7900	8050
Dec-06	8000	8100
Jan-07	8000	8100
Feb-07	8000	8100
Mar-07	8000	8100
Apr-07	8000	8100
May-07	8000	8100
Jun-07	8000	8100
Jul-07	8000	8100
Aug-07	8000	6984
Sep-07	8000	8100
Oct-07	8000	8100
Nov-07	8000	8100
Dec-07	8000	8100
Jan-08	8000	8100
Feb-08	8000	8100
Mar-08	8000	8100
Apr-08	8000	8100
May-08	8000	8100
Jun-08	8000	8100
Jul-08	8000	8100
Aug-08	8000	8100
Sep-08	8000	8100
Oct-08	8000	8100
Nov-08	8000	8100
Dec-08	8000	8100

	Injection Pressure	
Month	100/04-20	102/02-19
Jan-09	8000	8100
Feb-09	8000	8100
Mar-09	8000	8100
Apr-09	8000	8100
May-09	8000	8100
Jun-09	8000	8100
Jul-09	8000	8100
Aug-09	7774	8100
Sep-09	8000	8100
Oct-09	8000	7747
Nov-09	8000	8100
Dec-09	8000	6974
Jan-10	8000	7084
Feb-10	8000	8100
Mar-10	8000	8100
Apr-10	8000	8100
May-10	8000	8100
Jun-10	8000	8100
Jul-10	8000	8100
Aug-10	8000	8100
Sep-10	8000	8100
Oct-10	8000	8100
Nov-10	8020	7963
Dec-10	8003	7968
Jan-11	7900	7800
Feb-11	7882	7818
Mar-11	7594	7777
Apr-11	7743	7943
May-11	7761	7897
Jun-11	7057	7207
Jul-11	7800	7900
Aug-11	7800	7900
Sep-11	7800	7900
Oct-11	7129	7974
Nov-11	4347	4157
Dec-11	3767	2583

	Injection Pressure		
Month	100/04-20	102/02-19	103/02-19
Jan-12	-	-	-
Feb-12	-	-	-
Mar-12	-	-	-
Apr-12	-	-	-
May-12	-	-	-
Jun-12	-	-	-
Jul-12	-	-	-
Aug-12	-	-	-
Sep-12	-	-	-
Oct-12	-	-	-
Nov-12	-	-	-
Dec-12	-	-	-
Jan-13	-	-	-
Feb-13	-	-	-
Mar-13	-	-	-
Apr-13	-	-	35
May-13	-	-	736
Jun-13	-	-	2346
Jul-13	-	-	2938
Aug-13	-	-	3000
Sep-13	-	-	3000
Oct-13	-	-	3000
Nov-13	-	-	3040
Dec-13	-	-	2614

Appendix C

Birdtail Unit No.2 Pattern Summary as of December 2013

Pattern Name	Injector Location (016-27W1)	Injector Surf. Location (016-27W1)	Status	No. of Supported Wells	Supported Wells (016-27W1)	Allocation Factor	Pattern Prod Start Month	Inj Start Month	Inj End Month	Oil Rate (m^3/d)	Water Rate (m^3/d)	WOR (m^3/m^3)	Water Injection (m^3/d)	Cum Oil (E^3m^3)	Cum Water (E^3m^3)	Cum Inj Water (E^3m^3)	Monthly VRR	Cum VRR
02/02-19-016-27W1 Injector	02/02-19	Vertical Well	WTR Injection	7	15-18, 02-19, 07-19	1	Jul 1997	Jun 2002	Oct 2011	-	-	-	-	-	-	-	-	-
					16-18, 01-19, 08-19, 02/07-19	0.5												
00/04-20-016-27W1 Injector	00/04-20	Vertical Well	WTR Injection	6	03-20, 05-20	1	Jan 1997	Jul 2002	Oct 2011	-	-	-	-	-	-	-	-	-
					16-18, 01-19, 08-19, 02/07-19	0.5												
03/02-19-016-27W1 Injector	03/02-19	03/04-20	WTR Injection	12	15-18, 16-18, 01-19, 02-19, 02/02-19, 07-19, 08-19, 04/02-19 (Surf Loc 04/04-20), 02/07-19 (Surf Loc 02/05-20), 03-20, 04-20, 05-20	1	Jan 1997	Apr 2013	-	3.4	10.7	3.2	12.7	47.3	51.2	101.3	0.9	1.0

Appendix D

Rates and VRR

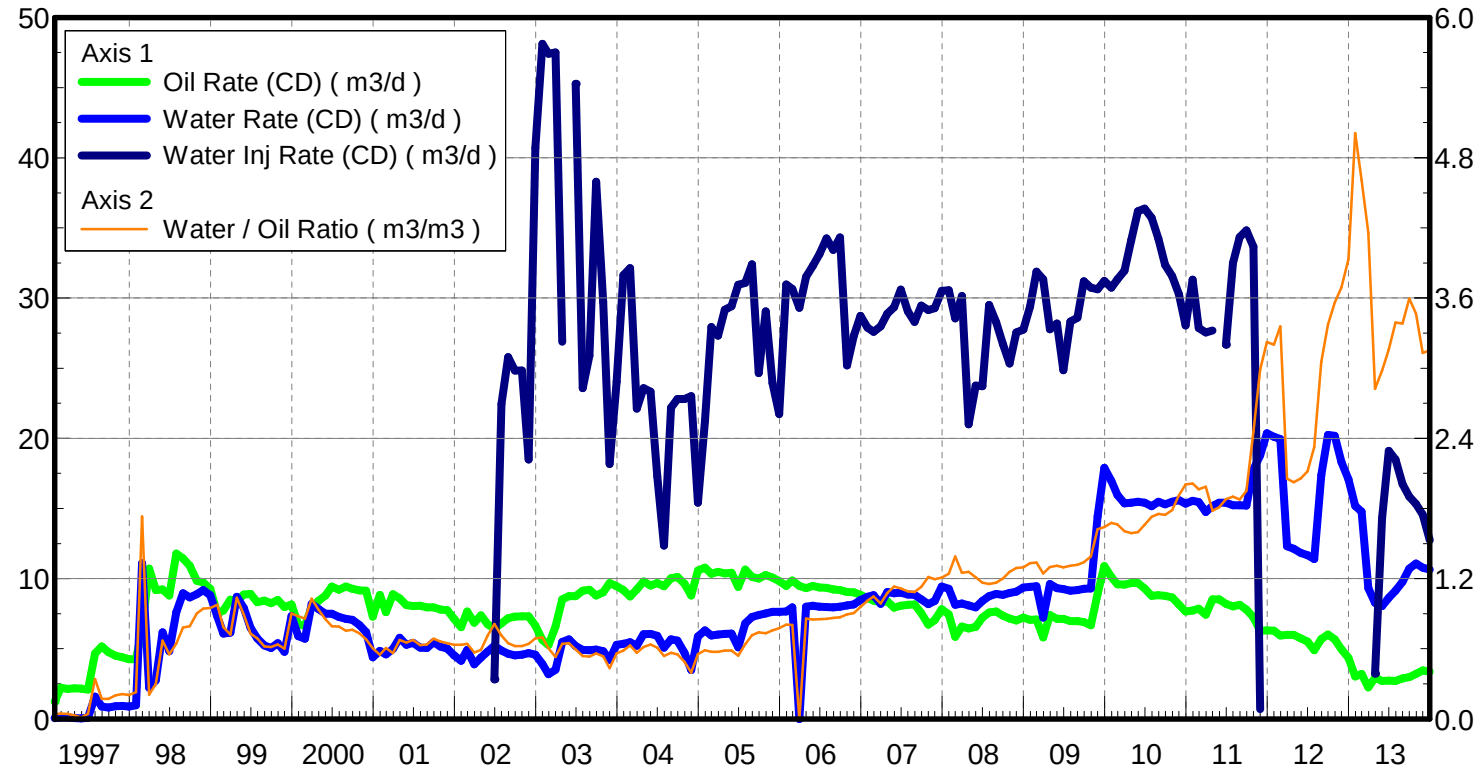
Plots and Tables

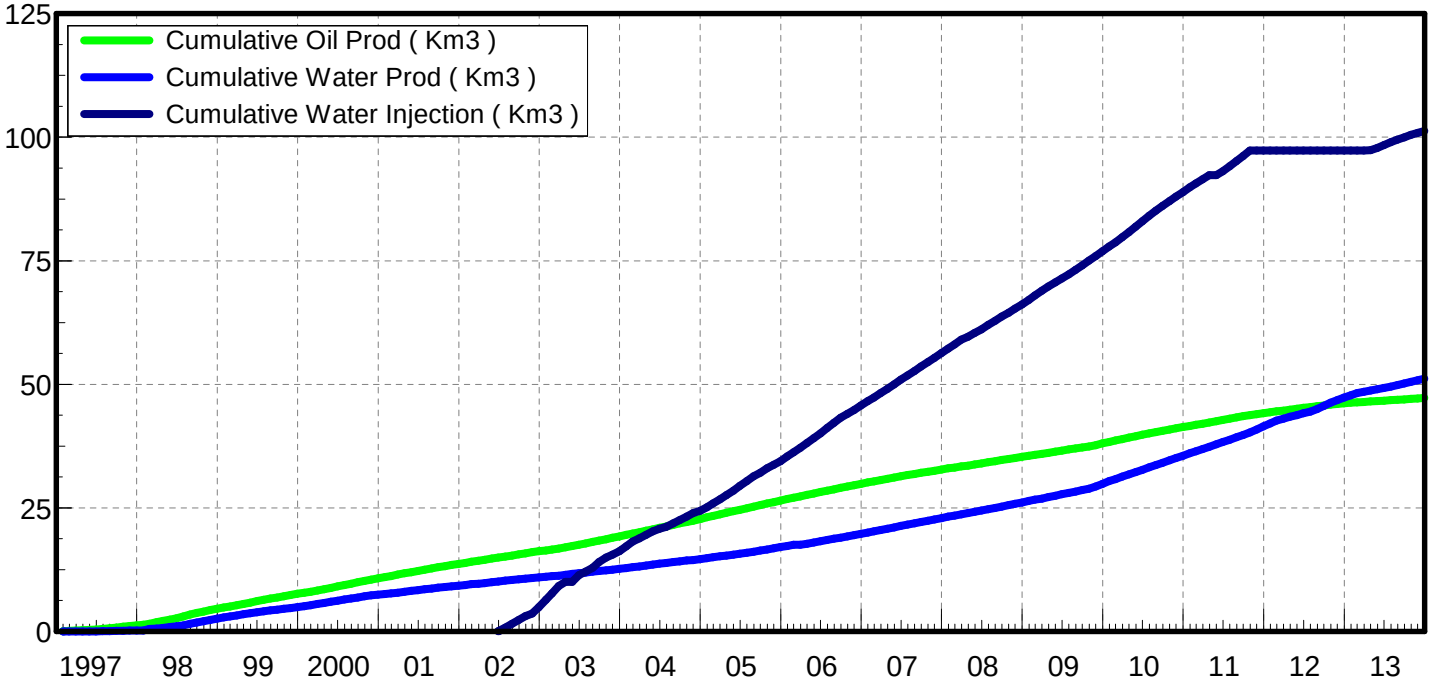
Oil Formation Vol Factor : 1.00300 m3/m3
Water Formation Vol Factor : 1.00000 m3/m3
Water / Oil Ratio : 3.15 m3/m3

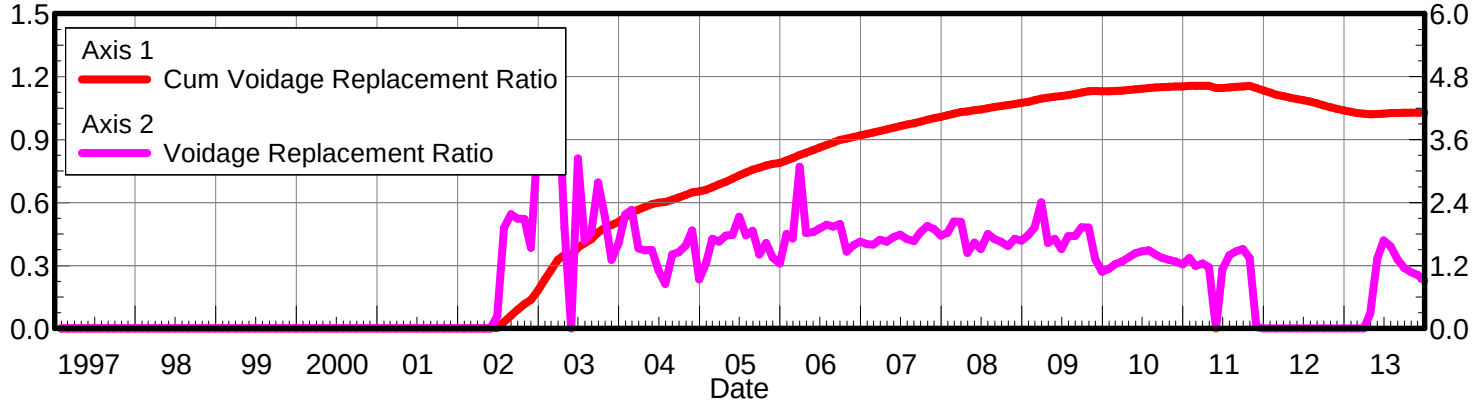
Birdtail Unit #2 03/02-19-016-27 Inj

March 13, 2014
Operator: Tundra_O&G_Prtnshp

Oil Rate (CD) : 3.38 m3/d
Water Rate (CD) : 10.65 m3/d
Water Inj Rate (CD) : 12.74 m3/d







Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
1/31/1997	1.23	0.05	0.04		0.04	0.00	0.00	0.000	0.000
2/28/1997	2.22	0.10	0.05		0.10	0.00	0.00	0.000	0.000
3/31/1997	2.14	0.09	0.04		0.17	0.01	0.00	0.000	0.000
4/30/1997	2.19	0.06	0.03		0.23	0.01	0.00	0.000	0.000
5/31/1997	2.17	0.03	0.01		0.30	0.01	0.00	0.000	0.000
6/30/1997	2.09	0.09	0.04		0.36	0.01	0.00	0.000	0.000
7/31/1997	4.68	1.59	0.34		0.51	0.06	0.00	0.000	0.000
8/31/1997	5.18	0.89	0.17		0.67	0.09	0.00	0.000	0.000
9/30/1997	4.76	0.82	0.17		0.81	0.11	0.00	0.000	0.000
10/31/1997	4.50	0.91	0.20		0.95	0.14	0.00	0.000	0.000
11/30/1997	4.39	0.94	0.21		1.08	0.17	0.00	0.000	0.000
12/31/1997	4.26	0.87	0.20		1.21	0.20	0.00	0.000	0.000
1/31/1998	4.25	0.97	0.23		1.35	0.23	0.00	0.000	0.000
2/28/1998	6.41	11.10	1.73		1.53	0.54	0.00	0.000	0.000
3/31/1998	10.71	2.22	0.21		1.86	0.61	0.00	0.000	0.000
4/30/1998	9.19	2.76	0.30		2.13	0.69	0.00	0.000	0.000
5/31/1998	9.23	6.18	0.67		2.42	0.88	0.00	0.000	0.000
6/30/1998	8.79	4.84	0.55		2.68	1.03	0.00	0.000	0.000
7/31/1998	11.78	7.61	0.65		3.05	1.26	0.00	0.000	0.000
8/31/1998	11.45	8.95	0.78		3.40	1.54	0.00	0.000	0.000
9/30/1998	10.91	8.66	0.79		3.73	1.80	0.00	0.000	0.000
10/31/1998	9.84	8.88	0.90		4.04	2.07	0.00	0.000	0.000
11/30/1998	9.73	9.17	0.94		4.33	2.35	0.00	0.000	0.000
12/31/1998	9.28	8.82	0.95		4.61	2.62	0.00	0.000	0.000
1/31/1999	7.51	7.32	0.97		4.85	2.85	0.00	0.000	0.000
2/28/1999	7.73	6.08	0.79		5.06	3.02	0.00	0.000	0.000
3/31/1999	8.50	6.15	0.72		5.33	3.21	0.00	0.000	0.000
4/30/1999	8.41	8.71	1.04		5.58	3.47	0.00	0.000	0.000
5/31/1999	8.87	7.91	0.89		5.86	3.72	0.00	0.000	0.000
6/30/1999	8.90	6.50	0.73		6.12	3.91	0.00	0.000	0.000
7/31/1999	8.32	5.73	0.69		6.38	4.09	0.00	0.000	0.000
8/31/1999	8.44	5.23	0.62		6.64	4.25	0.00	0.000	0.000
9/30/1999	8.25	5.06	0.61		6.89	4.40	0.00	0.000	0.000
10/31/1999	8.47	5.40	0.64		7.15	4.57	0.00	0.000	0.000
11/30/1999	7.97	4.78	0.60		7.39	4.71	0.00	0.000	0.000
12/31/1999	8.15	7.34	0.90		7.64	4.94	0.00	0.000	0.000
1/31/2000	6.73	5.90	0.88		7.85	5.13	0.00	0.000	0.000
2/29/2000	6.65	5.72	0.86		8.04	5.29	0.00	0.000	0.000
3/31/2000	7.97	8.19	1.03		8.29	5.54	0.00	0.000	0.000
4/30/2000	8.40	7.84	0.93		8.54	5.78	0.00	0.000	0.000
5/31/2000	8.79	7.50	0.85		8.82	6.01	0.00	0.000	0.000
6/30/2000	9.44	7.49	0.79		9.10	6.24	0.00	0.000	0.000
7/31/2000	9.20	7.28	0.79		9.38	6.46	0.00	0.000	0.000
8/31/2000	9.44	7.13	0.76		9.68	6.68	0.00	0.000	0.000
9/30/2000	9.27	7.06	0.76		9.96	6.90	0.00	0.000	0.000
10/31/2000	9.17	6.71	0.73		10.24	7.10	0.00	0.000	0.000
11/30/2000	9.13	6.20	0.68		10.51	7.29	0.00	0.000	0.000
12/31/2000	7.29	4.40	0.60		10.74	7.43	0.00	0.000	0.000

Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
1/31/2001	8.83	4.86	0.55		11.01	7.58	0.00	0.000	0.000
2/28/2001	7.61	4.60	0.61		11.23	7.71	0.00	0.000	0.000
3/31/2001	8.89	5.00	0.56		11.50	7.86	0.00	0.000	0.000
4/30/2001	8.60	5.79	0.67		11.76	8.03	0.00	0.000	0.000
5/31/2001	8.10	5.29	0.65		12.01	8.20	0.00	0.000	0.000
6/30/2001	8.05	5.43	0.67		12.25	8.36	0.00	0.000	0.000
7/31/2001	8.07	5.09	0.63		12.50	8.52	0.00	0.000	0.000
8/31/2001	7.95	5.05	0.64		12.75	8.68	0.00	0.000	0.000
9/30/2001	7.96	5.46	0.69		12.99	8.84	0.00	0.000	0.000
10/31/2001	7.78	5.15	0.66		13.23	9.00	0.00	0.000	0.000
11/30/2001	7.74	5.01	0.65		13.46	9.15	0.00	0.000	0.000
12/31/2001	7.13	4.53	0.63		13.68	9.29	0.00	0.000	0.000
1/31/2002	6.53	4.14	0.63		13.88	9.42	0.00	0.000	0.000
2/28/2002	7.65	4.91	0.64		14.10	9.56	0.00	0.000	0.000
3/31/2002	6.85	3.89	0.57		14.31	9.68	0.00	0.000	0.000
4/30/2002	7.39	4.36	0.59		14.53	9.81	0.00	0.000	0.000
5/31/2002	6.75	4.81	0.71		14.74	9.96	0.00	0.000	0.000
6/30/2002	6.42	5.22	0.81	2.82	14.93	10.11	0.08	0.242	0.003
7/31/2002	6.82	4.87	0.71	22.44	15.15	10.26	0.78	1.916	0.031
8/31/2002	7.18	4.65	0.65	25.79	15.37	10.41	1.58	2.177	0.061
9/30/2002	7.29	4.54	0.62	24.83	15.59	10.54	2.32	2.095	0.089
10/31/2002	7.32	4.56	0.62	24.84	15.81	10.69	3.09	2.085	0.117
11/30/2002	7.30	4.69	0.64	18.49	16.03	10.83	3.65	1.539	0.136
12/31/2002	6.65	4.58	0.69	40.70	16.24	10.97	4.91	3.615	0.180
1/31/2003	5.62	3.92	0.70	48.11	16.41	11.09	6.40	5.033	0.232
2/28/2003	5.26	3.18	0.60	47.41	16.56	11.18	7.73	5.608	0.278
3/31/2003	6.59	3.50	0.53	47.50	16.77	11.29	9.20	4.697	0.327
4/30/2003	8.52	5.48	0.64	26.89	17.02	11.45	10.01	1.918	0.351
5/31/2003	8.74	5.67	0.65		17.29	11.63	10.01	0.000	0.345
6/30/2003	8.76	5.18	0.59	45.26	17.55	11.78	11.37	3.241	0.387
7/31/2003	9.15	4.92	0.54	23.57	17.84	11.94	12.10	1.673	0.406
8/31/2003	9.20	4.90	0.53	25.91	18.12	12.09	12.90	1.835	0.426
9/30/2003	8.80	4.93	0.56	38.30	18.39	12.23	14.05	2.785	0.458
10/31/2003	9.03	4.83	0.54	29.71	18.67	12.38	14.97	2.139	0.481
11/30/2003	9.68	4.21	0.43	18.17	18.96	12.51	15.52	1.305	0.492
12/31/2003	9.45	5.29	0.56	24.03	19.25	12.68	16.26	1.626	0.508
1/31/2004	9.18	5.36	0.58	31.62	19.53	12.84	17.24	2.171	0.532
2/29/2004	8.72	5.47	0.63	32.13	19.79	13.00	18.17	2.260	0.553
3/31/2004	9.22	5.22	0.57	22.11	20.07	13.16	18.86	1.528	0.566
4/30/2004	9.80	6.03	0.62	23.59	20.37	13.34	19.57	1.487	0.579
5/31/2004	9.51	6.05	0.64	23.32	20.66	13.53	20.29	1.496	0.592
6/30/2004	9.69	5.91	0.61	17.28	20.95	13.71	20.81	1.106	0.599
7/31/2004	9.45	5.08	0.54	12.35	21.25	13.86	21.19	0.848	0.602
8/31/2004	10.03	5.68	0.57	22.18	21.56	14.04	21.88	1.409	0.613
9/30/2004	10.11	5.57	0.55	22.80	21.86	14.21	22.56	1.451	0.624
10/31/2004	9.64	4.72	0.49	22.79	22.16	14.35	23.27	1.584	0.636
11/30/2004	8.80	3.49	0.40	23.02	22.42	14.46	23.96	1.870	0.648
12/31/2004	10.58	5.88	0.56	15.41	22.75	14.64	24.44	0.935	0.652

Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
1/31/2005	10.77	6.32	0.59	21.22	23.08	14.84	25.09	1.239	0.661
2/28/2005	10.36	5.94	0.57	27.94	23.37	15.00	25.88	1.712	0.673
3/31/2005	10.47	6.02	0.57	27.31	23.70	15.19	26.72	1.653	0.686
4/30/2005	10.36	6.06	0.58	29.16	24.01	15.37	27.60	1.772	0.700
5/31/2005	10.40	6.07	0.58	29.41	24.33	15.56	28.51	1.781	0.713
6/30/2005	9.41	5.10	0.54	30.95	24.62	15.71	29.44	2.129	0.729
7/31/2005	10.63	6.81	0.64	31.07	24.94	15.92	30.40	1.778	0.743
8/31/2005	10.13	7.26	0.72	32.41	25.26	16.15	31.41	1.860	0.757
9/30/2005	10.01	7.40	0.74	24.64	25.56	16.37	32.15	1.413	0.765
10/31/2005	10.26	7.52	0.73	29.05	25.88	16.60	33.05	1.631	0.776
11/30/2005	10.08	7.63	0.76	23.95	26.18	16.83	33.76	1.350	0.784
12/31/2005	9.83	7.63	0.78	21.72	26.48	17.07	34.44	1.242	0.789
1/31/2006	9.48	7.65	0.81	30.95	26.78	17.31	35.40	1.803	0.801
2/28/2006	9.87	7.94	0.80	30.65	27.05	17.53	36.26	1.718	0.812
3/31/2006	9.48	0.00	0.00	29.30	27.35	17.53	37.16	3.082	0.827
4/30/2006	9.32	8.00	0.86	31.52	27.63	17.77	38.11	1.817	0.838
5/31/2006	9.48	8.07	0.85	32.29	27.92	18.02	39.11	1.836	0.850
6/30/2006	9.36	7.99	0.85	33.14	28.20	18.26	40.10	1.906	0.862
7/31/2006	9.34	7.98	0.85	34.26	28.49	18.51	41.17	1.976	0.874
8/31/2006	9.22	7.96	0.86	33.44	28.78	18.75	42.20	1.943	0.886
9/30/2006	9.19	8.00	0.87	34.31	29.05	18.99	43.23	1.993	0.898
10/31/2006	9.04	8.09	0.90	25.20	29.33	19.24	44.01	1.468	0.904
11/30/2006	9.02	8.16	0.90	27.29	29.60	19.49	44.83	1.586	0.912
12/31/2006	8.85	8.47	0.96	28.73	29.88	19.75	45.72	1.656	0.920
1/31/2007	8.62	8.71	1.01	27.88	30.15	20.02	46.59	1.606	0.927
2/28/2007	8.43	8.82	1.05	27.58	30.38	20.27	47.36	1.597	0.933
3/31/2007	8.33	8.21	0.99	27.97	30.64	20.52	48.23	1.689	0.941
4/30/2007	8.39	9.05	1.08	28.88	30.89	20.79	49.09	1.654	0.948
5/31/2007	7.92	8.96	1.13	29.36	31.14	21.07	50.00	1.737	0.956
6/30/2007	8.07	9.00	1.11	30.61	31.38	21.34	50.92	1.791	0.964
7/31/2007	8.13	8.87	1.09	29.04	31.63	21.62	51.82	1.705	0.971
8/31/2007	8.15	8.84	1.09	28.30	31.88	21.89	52.70	1.664	0.978
9/30/2007	7.53	8.52	1.13	29.45	32.11	22.15	53.58	1.832	0.986
10/31/2007	6.73	8.17	1.22	29.15	32.32	22.40	54.49	1.954	0.994
11/30/2007	7.04	8.41	1.19	29.28	32.53	22.65	55.37	1.892	1.002
12/31/2007	7.81	9.43	1.21	30.50	32.77	22.94	56.31	1.768	1.009
1/31/2008	7.45	9.26	1.24	30.56	33.00	23.23	57.26	1.826	1.016
2/29/2008	5.86	8.14	1.39	28.56	33.17	23.47	58.09	2.037	1.024
3/31/2008	6.57	8.22	1.25	30.14	33.38	23.72	59.02	2.035	1.032
4/30/2008	6.44	8.09	1.26	21.00	33.57	23.97	59.65	1.443	1.035
5/31/2008	6.55	7.95	1.21	23.77	33.77	24.21	60.39	1.637	1.040
6/30/2008	7.22	8.41	1.16	23.70	33.99	24.46	61.10	1.514	1.043
7/31/2008	7.58	8.75	1.15	29.50	34.23	24.73	62.01	1.804	1.050
8/31/2008	7.65	8.91	1.16	28.28	34.46	25.01	62.89	1.704	1.056
9/30/2008	7.36	8.83	1.20	26.72	34.68	25.28	63.69	1.648	1.060
10/31/2008	7.15	8.98	1.26	25.34	34.90	25.55	64.48	1.569	1.065
11/30/2008	7.03	9.07	1.29	27.53	35.12	25.83	65.30	1.708	1.070
12/31/2008	7.22	9.36	1.30	27.75	35.34	26.12	66.16	1.671	1.075

Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
1/31/2009	7.06	9.40	1.33	29.39	35.56	26.41	67.07	1.783	1.081
2/28/2009	7.08	9.47	1.34	31.87	35.76	26.67	67.97	1.923	1.087
3/31/2009	5.80	7.21	1.24	31.33	35.94	26.90	68.94	2.403	1.095
4/30/2009	7.39	9.61	1.30	27.77	36.16	27.19	69.77	1.632	1.100
5/31/2009	7.12	9.33	1.31	28.19	36.38	27.47	70.64	1.712	1.104
6/30/2009	7.14	9.25	1.30	24.86	36.59	27.75	71.39	1.515	1.108
7/31/2009	6.97	9.14	1.31	28.33	36.81	28.04	72.27	1.756	1.113
8/31/2009	6.98	9.19	1.32	28.60	37.03	28.32	73.15	1.767	1.118
9/30/2009	6.91	9.26	1.34	31.20	37.23	28.60	74.09	1.927	1.124
10/31/2009	6.68	9.29	1.39	30.75	37.44	28.89	75.04	1.922	1.130
11/30/2009	8.90	14.43	1.62	30.62	37.71	29.32	75.96	1.311	1.131
12/31/2009	10.90	17.91	1.64	31.22	38.04	29.87	76.93	1.082	1.131
1/31/2010	10.12	16.97	1.68	30.74	38.36	30.40	77.88	1.134	1.131
2/28/2010	9.59	15.95	1.66	31.33	38.63	30.85	78.76	1.225	1.132
3/31/2010	9.57	15.37	1.61	31.94	38.92	31.32	79.75	1.279	1.133
4/30/2010	9.69	15.42	1.59	34.11	39.21	31.79	80.77	1.357	1.136
5/31/2010	9.69	15.48	1.60	36.19	39.51	32.27	81.90	1.436	1.139
6/30/2010	9.29	15.42	1.66	36.38	39.79	32.73	82.99	1.470	1.142
7/31/2010	8.77	15.16	1.73	35.72	40.07	33.20	84.09	1.491	1.146
8/31/2010	8.82	15.47	1.75	34.24	40.34	33.68	85.16	1.408	1.149
9/30/2010	8.77	15.31	1.75	32.36	40.60	34.14	86.13	1.343	1.150
10/31/2010	8.67	15.47	1.78	31.56	40.87	34.62	87.10	1.306	1.152
11/30/2010	8.15	15.60	1.91	30.29	41.12	35.08	88.01	1.274	1.153
12/31/2010	7.65	15.34	2.01	28.05	41.35	35.56	88.88	1.219	1.154
1/31/2011	7.73	15.55	2.01	31.31	41.59	36.04	89.85	1.344	1.156
2/28/2011	7.86	15.46	1.97	27.86	41.81	36.48	90.63	1.194	1.156
3/31/2011	7.42	14.74	1.99	27.54	42.04	36.93	91.49	1.241	1.157
4/30/2011	8.53	15.18	1.78	27.68	42.30	37.39	92.32	1.166	1.157
5/31/2011	8.52	15.42	1.81		42.56	37.87	92.32	0.000	1.146
6/30/2011	8.20	15.41	1.88	26.67	42.81	38.33	93.12	1.128	1.146
7/31/2011	8.01	15.22	1.90	32.50	43.06	38.80	94.13	1.397	1.148
8/31/2011	8.12	15.23	1.88	34.34	43.31	39.27	95.19	1.469	1.151
9/30/2011	7.79	15.21	1.95	34.83	43.54	39.73	96.23	1.513	1.154
10/31/2011	7.24	17.79	2.46	33.66	43.77	40.28	97.28	1.344	1.156
11/30/2011	6.29	18.78	2.99	0.69	43.96	40.84	97.30	0.027	1.146
12/31/2011	6.32	20.36	3.22		44.15	41.47	97.30	0.000	1.135
1/31/2012	6.28	20.11	3.20		44.35	42.10	97.30	0.000	1.124
2/29/2012	5.94	19.96	3.36		44.52	42.68	97.30	0.000	1.114
3/31/2012	5.99	12.30	2.05		44.70	43.06	97.30	0.000	1.107
4/30/2012	5.99	12.13	2.03		44.88	43.42	97.30	0.000	1.100
5/31/2012	5.75	11.82	2.06		45.06	43.79	97.30	0.000	1.093
6/30/2012	5.51	11.67	2.12		45.23	44.14	97.30	0.000	1.087
7/31/2012	4.90	11.40	2.33		45.38	44.49	97.30	0.000	1.081
8/31/2012	5.69	17.38	3.05		45.56	45.03	97.30	0.000	1.072
9/30/2012	6.00	20.26	3.37		45.74	45.64	97.30	0.000	1.063
10/31/2012	5.67	20.18	3.56		45.91	46.26	97.30	0.000	1.054
11/30/2012	4.96	18.31	3.69		46.06	46.81	97.30	0.000	1.046
12/31/2012	4.34	17.08	3.93		46.19	47.34	97.30	0.000	1.039

Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
1/31/2013	3.03	15.19	5.01		46.29	47.81	97.30	0.000	1.032
2/28/2013	3.21	14.78	4.61		46.38	48.23	97.30	0.000	1.027
3/31/2013	2.24	9.31	4.16		46.45	48.52	97.30	0.000	1.023
4/30/2013	2.93	8.27	2.82	3.23	46.54	48.76	97.40	0.288	1.021
5/31/2013	2.70	8.03	2.98	14.32	46.62	49.01	97.84	1.334	1.022
6/30/2013	2.74	8.65	3.16	19.10	46.70	49.27	98.41	1.677	1.024
7/31/2013	2.69	9.13	3.39	18.48	46.78	49.55	98.99	1.562	1.026
8/31/2013	2.89	9.78	3.38	16.74	46.87	49.86	99.50	1.321	1.027
9/30/2013	2.98	10.71	3.60	15.83	46.96	50.18	99.98	1.156	1.028
10/31/2013	3.20	11.08	3.47	15.32	47.06	50.52	100.46	1.072	1.028
11/30/2013	3.45	10.79	3.13	14.57	47.17	50.85	100.89	1.023	1.028
12/31/2013	3.38	10.65	3.15	12.74	47.27	51.18	101.29	0.908	1.027

TUNDRA OIL & GAS PARTNERSHIP

TUNDRA BIRDTAIL UNIT No.2 HZNTL A2B-19-16-27
104/02-19-016-27W1/0
LICENSE #: 9639
BAKKEN FORMATION
Open Hole: 635 – 1243 mKBMD
(520.72 – 524.55 TVD)

RESERVOIR PRESSURE SURVEY TEST DATA
NOVEMBER 29th – DECEMBER 4th, 2013

Prepared by: **DOLLCO Well Data Services**
e-mail: dollco@shaw.ca

PO Box 326
417A Mississippian Drive
Estevan, SK
S4A 2A4

Cell: (306) 421 - 7330
Fax: (306) 634 - 7976
Res: (306) 634 - 8761

E-mail: qualityw@sasktel.net

Pressure Survey Report

Company Information

Company Name	**TUNDRA OIL & GAS PARTNERSHIP**
Contact	**CRAIG LANE**
e-mail	**craig.lane@tundraoilandgas.com**
Phone	**(204) 748-4409**
Site Contact	**GORD NYKOLATION**
Site Phone	

Well Information

Well Name	**TUNDRA BIRDTAIL UNIT No.2 HZNTL A2B-19-16-27**
Unique Well ID	**104/02-19-016-27W1/00**
Surface Location	**4B-20-16-27W1**
Well License Number	**9639**
Well Type	**Horizontal**
Well Fluid Type	**01 Oil**
Field	**BIRDTAIL**
KB Elevation (SL)	**480.50 m**
CF Elevation (SL)	**476.40 m**
GL Elevation (SL)	**476.40 m**
Distance from KB to CF (Log)	**4.10 m**
KB-GL Offset	**4.10 m**
Tubing ID	**mm**
Tubing OD	**mm**
Tubing Depth(Log KB)	**m**
Tubing Depth(TVD KB)	**m**
Casing ID	**mm**
Casing OD	**177.8 mm**
Casing Depth(Log KB)	**635.00000 m**
Casing Depth(TVD KB)	**520.72000 m**
PBTD(Log KB)	**m**
PBTD(TVD KB)	**m**

QUALITY WIRELINE SERVICES LTD.
634-7975

Pressure Survey Report

Test Information

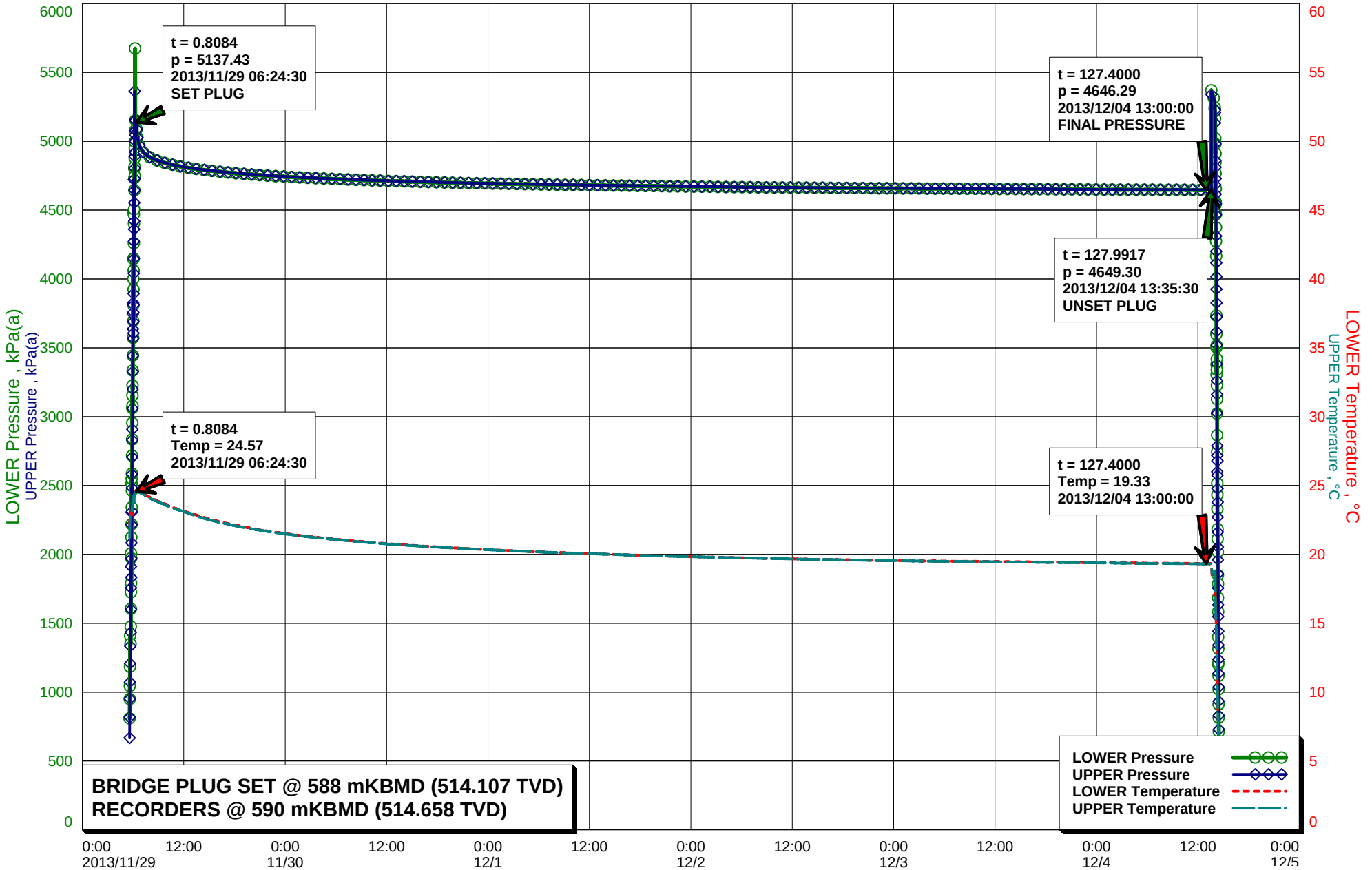
Well Name	**TUNDRA BIRDTAIL UNIT No.2 HZNTL A2B-19-16-27**
Unique Well ID	**104/02-19-016-27W1/00**
Surface Location	**4B-20-16-27W1**
Well License Number	**9639**
Well Fluid Type	**01 Oil**
Test Purpose	**Initial Test**
Test Type	**RESERVOIR PRESSURE SURVEY**
Formation	**BAKKEN**
Well Type	**Horizontal**
Test/Prod. Interval Top KB (Log)	**635.00 m**
Test/Prod. Interval Base KB (Log)	**1243.00 m**
MPP(Log KB)	**939.00 m**
Test/Prod Interval Top KB (TVD)	**520.72 m**
Test/Prod. Interval Base m KB (TVD)	**524.55 m**
MPP(TVD KB)	**522.63 m**
Date/Time Gauge on Bottom	**2013/11/29 06:46:00**
Date/Time Gauge Off Bottom	**2013/12/04 13:35:30**
Time/Date Well Shut-In	**2013/11/29 06:24:30**
Tubing Pressure Initial	**93.01 kPa(a)**
Casing Pressure Initial	**93.01 kPa(a)**
Tubing Pressure: Final	**93.01 kPa(a)**
Casing Pressure: Final	**93.01 kPa(a)**
Last Measured Pressure at Run Depth	**4646.29 kPa(a)**
Reservoir Temperature	**19.32 °C**
Service Company	**Quality Wireline Services Ltd.**
Representative	**IVORY HERMAN**
Prepared By	**DOLLCO Well Data Services**
Qualified By	**RICK DOLL**
Report Date	**2013/12/10**

**RECORDERS RUN BELOW A BRIDGE PLUG BY A DRILLING RIG,
THEN PULLED BY A SERVICE RIG**

TUNDRA OIL & GAS PARTNERSHIP
104/02-19-016-27W1/00
Start Test Date: 2013/11/29
Final Test Date: 2013/12/04

TUNDRA BIRDTAIL UNIT No.2 HZNTL A2B-19-16-27
Formation: BAKKEN

RESERVOIR PRESSURE SURVEY

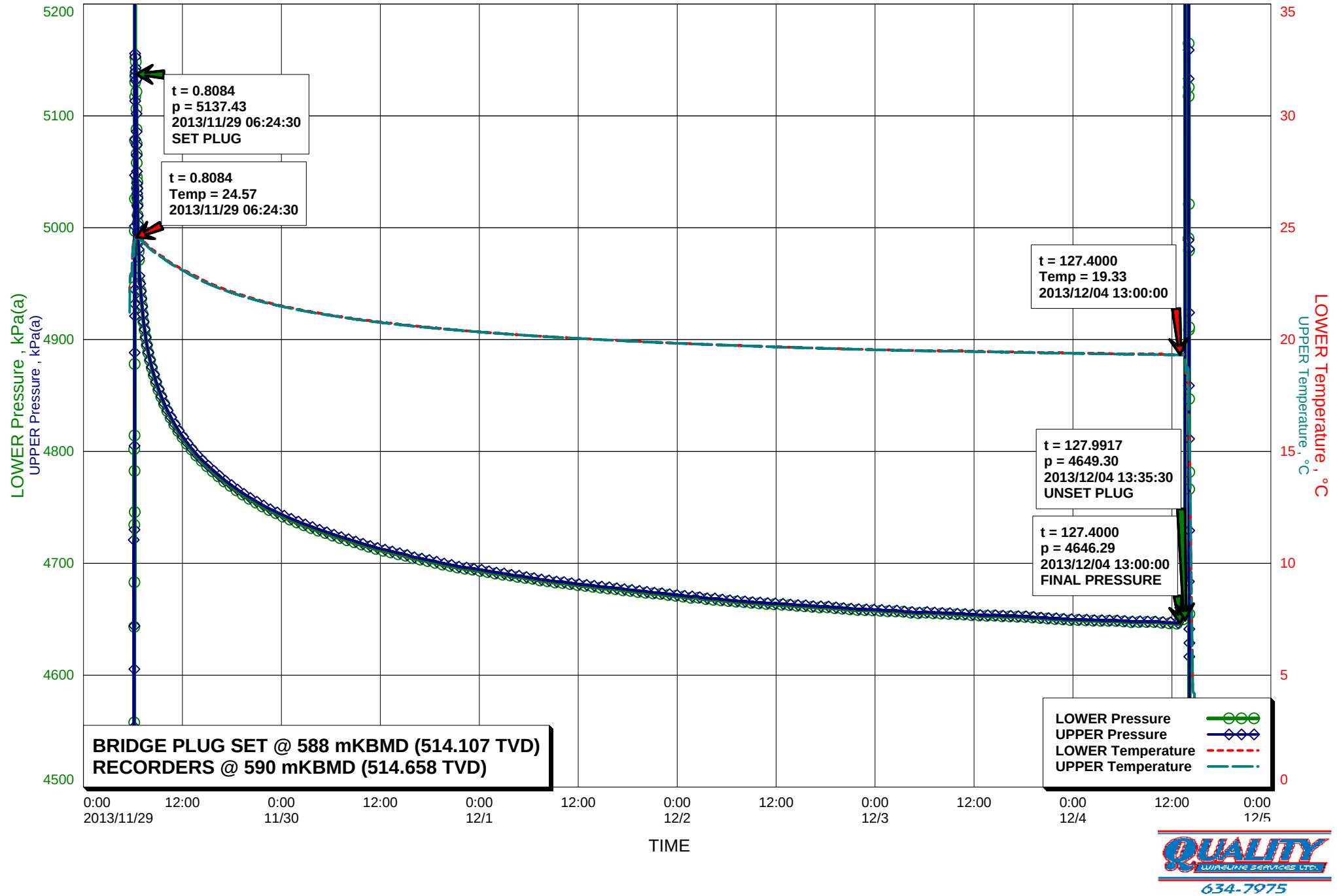


634-7975

TUNDRA OIL & GAS PARTNERSHIP
104/02-19-016-27W1/00
Start Test Date: 2013/11/29
Final Test Date: 2013/12/04

TUNDRA BIRDTAIL UNIT No.2 HZNTL A2B-19-16-27
Formation: BAKKEN

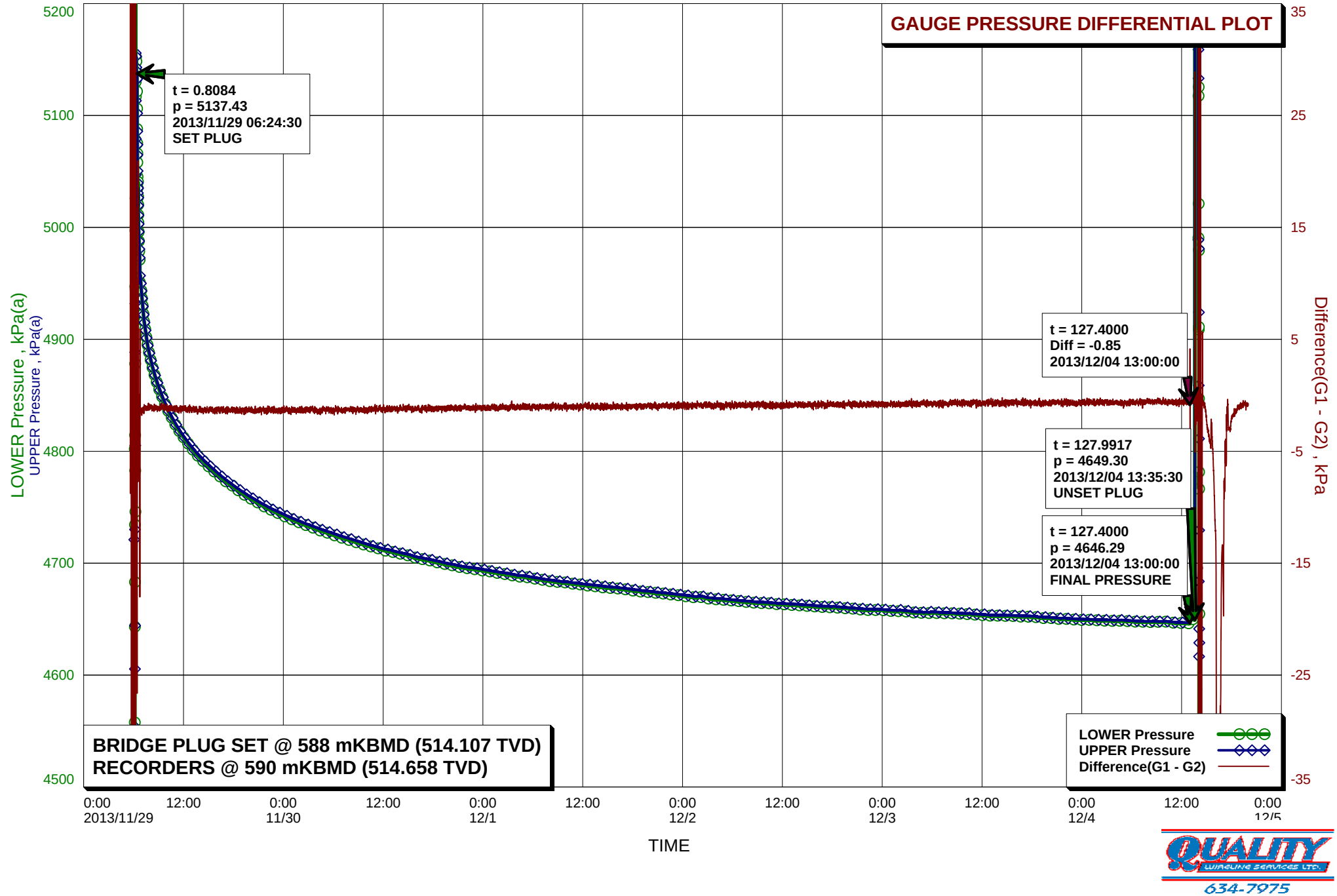
RESERVOIR PRESSURE SURVEY



TUNDRA OIL & GAS PARTNERSHIP
104/02-19-016-27W1/00
Start Test Date: 2013/11/29
Final Test Date: 2013/12/04

TUNDRA BIRDTAIL UNIT No.2 HZNTL A2B-19-16-27
Formation: BAKKEN

RESERVOIR PRESSURE SURVEY



Recorder Information

Company Name	**TUNDRA OIL & GAS PARTNERSHIP**
Unique Well ID	**104/02-19-016-27W1/00**
Well Name	**TUNDRA BIRDTAIL UNIT No.2 HZNTL A2B-19-16-27**
Formation	**BAKKEN**
Start Test Date	**2013/11/29**
Final Test Date	**2013/12/04**

Gauge 1

Gauge Name	**LOWER**	**Gauge Type**	**ELECTRONIC**
Gauge Serial Number	**40432**	**Gauge Manufacturer**	**REAL TIME MEASUREMENTS**
Run Depth (Log KB)	**590.00 m**	**Gauge Model**	**KC2 STRAIN**
Date of Last Calibration	**2010/06/22**	**Maximum Recorder Range**	**20680.00 kPa**
Gauge Start Date	**2013/11/29**	**Gauge Start Time**	**05:36:00**
Gauge Stop Date	**2013/12/04**	**Gauge Stop Time**	**20:00:00**
Date Gauge On Bottom	**2013/11/29**	**Time Gauge On Bottom**	**06:46:00**
Date Gauge Off Bottom	**2013/12/04**	**Time Gauge Off Bottom**	**13:35:30**

Gauge 2

Gauge Name	**UPPER**	**Gauge Type**	**ELECTRONIC**
Gauge Serial Number	**40442**	**Gauge Manufacturer**	**REAL TIME MEASUREMENTS**
Run Depth (Log KB)	**589.70 m**	**Gauge Model**	**KC2 STRAIN**
Date of Last Calibration	**2010/04/08**	**Maximum Recorder Range**	**20680.00 kPa**
Gauge Start Date	**2013/11/29**	**Gauge Start Time**	**05:36:00**
Gauge Stop Date	**2013/12/04**	**Gauge Stop Time**	**20:00:00**
Date Gauge On Bottom	**2013/11/29**	**Time Gauge On Bottom**	**06:46:00**
Date Gauge Off Bottom	**2013/12/04**	**Time Gauge Off Bottom**	**13:35:30**

QUALITY WIRELINE SERVICES LTD.
634-7975

TUNDRA OIL & GAS PARTNERSHIP
104/02-19-016-27W1/00
Start Test Date: 2013/11/29
Final Test Date: 2013/12/04

TUNDRA BIRDTAIL UNIT No.2 HZNTL A2B-19-16-27
Formation: BAKKEN

RESERVOIR PRESSURE SURVEY

	LOWER Date	LOWER Clk Time	LOWER Time	LOWER Pres.	LOWER Temp.	UPPER Time	UPPER Pres.	UPPER Temp.	Diff. G1 - G2
	yyyy/mm/dd	hh:mm:ss	hr	kPa(a)	°C	hr	kPa(a)	°C	kPa
1	2013/11/29	05:36:00	0.0000	809.36	22.11	0.0000	667.50	21.21	141.86
2	2013/11/29	05:36:00	0.0000	RIH, ACTIVATE RECORDERS S/N: 40432(L) & 40442(U)					
3	2013/11/29	05:36:30	0.0084	808.34	22.39	0.0084	817.10	21.73	-8.76
4	2013/11/29	06:18:00	0.7000	5150.37	24.58	0.7000	5152.74	24.53	-2.37
5	2013/11/29	06:18:00	0.7000	ON BOTTOM @ 590 mKBMD (514.658 TVD)					
6	2013/11/29	06:18:30	0.7084	5150.50	24.58	0.7084	5151.16	24.53	-0.66
7	2013/11/29	06:24:30	0.8084	5137.43	24.57	0.8084	5137.83	24.54	-0.40
8	2013/11/29	06:24:30	0.8084	SET BRIDGE PLUG @ 588 mKBMD (514.107 TVD)					
9	2013/11/29	06:25:00	0.8167	5121.50	24.57	0.8167	5137.69	24.54	-16.19
10	2013/11/29	06:36:00	1.0000	4998.80	24.55	1.0000	5003.01	24.51	-4.21
11	2013/11/29	07:36:30	2.0084	4897.92	24.28	2.0084	4899.22	24.23	-1.30
12	2013/11/29	08:36:30	3.0084	4866.20	23.96	3.0084	4867.28	23.90	-1.08
13	2013/11/29	09:36:30	4.0084	4845.33	23.71	4.0084	4846.35	23.65	-1.02
14	2013/11/29	10:36:30	5.0084	4829.84	23.43	5.0084	4830.77	23.39	-0.93
15	2013/11/29	11:36:30	6.0084	4816.82	23.22	6.0084	4817.96	23.18	-1.14
16	2013/11/29	12:36:30	7.0084	4806.36	23.03	7.0084	4807.50	22.97	-1.14
17	2013/11/29	13:36:30	8.0084	4797.19	22.84	8.0084	4798.37	22.77	-1.18
18	2013/11/29	14:36:30	9.0084	4789.48	22.64	9.0084	4790.75	22.58	-1.27
19	2013/11/29	15:36:30	10.0084	4782.50	22.47	10.0084	4783.92	22.42	-1.43
20	2013/11/29	16:36:30	11.0084	4776.48	22.32	11.0084	4777.71	22.27	-1.23
21	2013/11/29	17:36:30	12.0084	4770.56	22.18	12.0084	4771.79	22.14	-1.23
22	2013/11/29	18:36:30	13.0084	4765.05	22.07	13.0084	4766.44	22.02	-1.40
23	2013/11/29	19:36:30	14.0084	4760.22	21.95	14.0084	4761.45	21.90	-1.23
24	2013/11/29	20:36:30	15.0084	4755.38	21.83	15.0084	4756.83	21.80	-1.46
25	2013/11/29	21:36:30	16.0084	4751.34	21.73	16.0084	4752.64	21.70	-1.30
26	2013/11/29	22:36:30	17.0084	4747.35	21.63	17.0084	4748.53	21.61	-1.18
27	2013/11/29	23:36:30	18.0084	4743.60	21.54	18.0084	4745.08	21.52	-1.48
28	2013/11/30	00:36:30	19.0084	4740.43	21.46	19.0084	4741.84	21.44	-1.41
29	2013/11/30	01:36:30	20.0084	4737.47	21.39	20.0084	4738.66	21.36	-1.19
30	2013/11/30	02:36:30	21.0084	4734.26	21.32	21.0084	4735.58	21.29	-1.33
31	2013/11/30	03:36:30	22.0084	4731.49	21.24	22.0084	4732.94	21.22	-1.45
32	2013/11/30	04:36:30	23.0084	4728.79	21.18	23.0084	4730.05	21.16	-1.27
33	2013/11/30	05:36:30	24.0084	4726.34	21.12	24.0084	4727.66	21.10	-1.32
34	2013/11/30	06:36:30	25.0084	4723.72	21.06	25.0084	4725.20	21.04	-1.48
35	2013/11/30	07:36:30	26.0084	4721.58	21.00	26.0084	4722.77	20.98	-1.19
36	2013/11/30	08:36:30	27.0084	4719.26	20.95	27.0084	4720.59	20.93	-1.33
37	2013/11/30	09:36:30	28.0084	4716.78	20.89	28.0084	4718.18	20.88	-1.40
38	2013/11/30	10:36:30	29.0084	4714.77	20.85	29.0084	4716.00	20.83	-1.23
39	2013/11/30	11:36:30	30.0084	4712.78	20.81	30.0084	4713.91	20.78	-1.12
40	2013/11/30	12:36:30	31.0084	4710.88	20.76	31.0084	4712.01	20.74	-1.13

LOWER Serial Number: 40432 Start Date: 2013/11/29 05:36:00 Run Depth: 590.00
UPPER Serial Number: 40442 Start Date: 2013/11/29 05:36:00 Run Depth: 589.70
Print Filter: Print every 1 hour

TUNDRA OIL & GAS PARTNERSHIP
104/02-19-016-27W1/00
Start Test Date: 2013/11/29
Final Test Date: 2013/12/04

TUNDRA BIRDTAIL UNIT No.2 HZNTL A2B-19-16-27
Formation: BAKKEN

RESERVOIR PRESSURE SURVEY

	LOWER Date	LOWER Clk Time	LOWER Time	LOWER Pres.	LOWER Temp.	UPPER Time	UPPER Pres.	UPPER Temp.	Diff. G1 - G2
	yyyy/mm/dd	hh:mm:ss	hr	kPa(a)	°C	hr	kPa(a)	°C	kPa
41	2013/11/30	13:37:00	32.0167	4709.00	20.72	32.0084	4710.20	20.70	-1.27
42	2013/11/30	14:37:00	33.0167	4707.44	20.68	33.0084	4708.67	20.65	-1.14
43	2013/11/30	15:37:00	34.0167	4705.15	20.63	34.0084	4706.61	20.62	-1.37
44	2013/11/30	16:37:00	35.0167	4703.61	20.60	35.0084	4704.91	20.58	-1.21
45	2013/11/30	17:37:00	36.0167	4702.29	20.56	36.0084	4703.23	20.54	-0.88
46	2013/11/30	18:37:00	37.0167	4700.67	20.53	37.0084	4701.88	20.51	-1.23
47	2013/11/30	19:37:00	38.0167	4698.78	20.49	38.0084	4700.10	20.47	-1.20
48	2013/11/30	20:37:00	39.0167	4697.41	20.46	39.0084	4698.62	20.44	-1.11
49	2013/11/30	21:37:00	40.0167	4696.03	20.42	40.0084	4697.20	20.41	-1.20
50	2013/11/30	22:37:00	41.0167	4695.13	20.39	41.0084	4696.32	20.38	-0.98
51	2013/11/30	23:37:00	42.0167	4693.77	20.36	42.0084	4694.75	20.35	-1.16
52	2013/12/01	00:37:00	43.0167	4692.57	20.33	43.0084	4693.67	20.32	-1.09
53	2013/12/01	01:37:00	44.0167	4691.26	20.30	44.0084	4692.43	20.29	-1.17
54	2013/12/01	02:37:00	45.0167	4690.32	20.28	45.0084	4691.34	20.27	-1.11
55	2013/12/01	03:37:00	46.0167	4689.04	20.25	46.0084	4690.04	20.24	-1.04
56	2013/12/01	04:37:00	47.0167	4687.83	20.22	47.0084	4688.88	20.22	-1.10
57	2013/12/01	05:37:00	48.0167	4686.87	20.20	48.0084	4687.92	20.19	-1.10
58	2013/12/01	06:37:00	49.0167	4685.50	20.17	49.0084	4686.66	20.17	-1.22
59	2013/12/01	07:37:00	50.0167	4684.37	20.15	50.0084	4685.46	20.14	-0.95
60	2013/12/01	08:37:00	51.0167	4683.52	20.12	51.0084	4684.46	20.12	-1.06
61	2013/12/01	09:37:00	52.0167	4682.51	20.11	52.0084	4683.43	20.10	-0.98
62	2013/12/01	10:37:00	53.0167	4681.89	20.08	53.0084	4682.87	20.08	-0.83
63	2013/12/01	11:37:00	54.0167	4680.83	20.06	54.0084	4681.91	20.06	-1.23
64	2013/12/01	12:37:00	55.0167	4679.92	20.04	55.0084	4681.03	20.04	-1.10
65	2013/12/01	13:37:00	56.0167	4679.27	20.02	56.0084	4680.28	20.02	-0.98
66	2013/12/01	14:37:00	57.0167	4678.47	20.01	57.0084	4679.27	20.00	-0.79
67	2013/12/01	15:37:00	58.0167	4677.42	19.98	58.0084	4678.52	19.98	-1.15
68	2013/12/01	16:37:00	59.0167	4676.94	19.97	59.0084	4677.77	19.96	-0.86
69	2013/12/01	17:37:00	60.0167	4676.21	19.95	60.0084	4676.90	19.94	-0.84
70	2013/12/01	18:37:00	61.0167	4674.98	19.93	61.0084	4676.20	19.92	-1.20
71	2013/12/01	19:37:00	62.0167	4674.08	19.91	62.0084	4675.17	19.91	-1.07
72	2013/12/01	20:37:00	63.0167	4673.50	19.90	63.0084	4674.30	19.89	-0.76
73	2013/12/01	21:37:00	64.0167	4672.83	19.88	64.0167	4673.63	19.87	-0.80
74	2013/12/01	22:37:00	65.0167	4671.96	19.86	65.0167	4672.93	19.86	-0.97
75	2013/12/01	23:37:00	66.0167	4671.07	19.85	66.0167	4672.05	19.84	-0.99
76	2013/12/02	00:37:00	67.0167	4670.22	19.83	67.0167	4671.28	19.82	-1.07
77	2013/12/02	01:37:00	68.0167	4669.12	19.82	68.0167	4670.11	19.81	-0.99
78	2013/12/02	02:37:00	69.0167	4669.11	19.80	69.0167	4669.96	19.80	-0.85
79	2013/12/02	03:37:00	70.0167	4668.00	19.79	70.0167	4668.76	19.78	-0.76
80	2013/12/02	04:37:00	71.0167	4667.67	19.78	71.0167	4668.42	19.77	-0.75

LOWER Serial Number: 40432 Start Date: 2013/11/29 05:36:00 Run Depth: 590.00
UPPER Serial Number: 40442 Start Date: 2013/11/29 05:36:00 Run Depth: 589.70
Print Filter: Print every 1 hour

TUNDRA OIL & GAS PARTNERSHIP
104/02-19-016-27W1/00
Start Test Date: 2013/11/29
Final Test Date: 2013/12/04

TUNDRA BIRDTAIL UNIT No.2 HZNTL A2B-19-16-27
Formation: BAKKEN

RESERVOIR PRESSURE SURVEY

	LOWER Date	LOWER Clk Time	LOWER Time	LOWER Pres.	LOWER Temp.	UPPER Time	UPPER Pres.	UPPER Temp.	Diff. G1 - G2
	yyyy/mm/dd	hh:mm:ss	hr	kPa(a)	°C	hr	kPa(a)	°C	kPa
81	2013/12/02	05:37:00	72.0167	4666.73	19.76	72.0167	4667.56	19.76	-0.83
82	2013/12/02	06:37:00	73.0167	4666.01	19.75	73.0167	4666.99	19.74	-0.99
83	2013/12/02	07:37:00	74.0167	4665.42	19.74	74.0167	4666.29	19.73	-0.87
84	2013/12/02	08:37:00	75.0167	4664.66	19.72	75.0167	4665.52	19.72	-0.86
85	2013/12/02	09:37:00	76.0167	4664.27	19.70	76.0167	4665.22	19.70	-0.95
86	2013/12/02	10:37:00	77.0167	4663.85	19.70	77.0167	4664.82	19.69	-0.97
87	2013/12/02	11:37:00	78.0167	4663.17	19.68	78.0167	4663.98	19.68	-0.81
88	2013/12/02	12:37:00	79.0167	4662.83	19.67	79.0167	4663.83	19.67	-1.00
89	2013/12/02	13:37:00	80.0167	4662.59	19.66	80.0167	4663.43	19.65	-0.83
90	2013/12/02	14:37:00	81.0167	4661.85	19.65	81.0167	4662.81	19.64	-0.96
91	2013/12/02	15:37:00	82.0167	4661.53	19.64	82.0167	4662.30	19.63	-0.78
92	2013/12/02	16:37:00	83.0167	4661.07	19.63	83.0167	4661.86	19.62	-0.79
93	2013/12/02	17:37:00	84.0167	4660.50	19.61	84.0167	4661.30	19.61	-0.80
94	2013/12/02	18:37:00	85.0167	4660.13	19.60	85.0167	4660.94	19.60	-0.81
95	2013/12/02	19:37:00	86.0167	4659.62	19.59	86.0167	4660.38	19.59	-0.76
96	2013/12/02	20:37:00	87.0167	4659.08	19.58	87.0167	4660.06	19.58	-0.98
97	2013/12/02	21:37:00	88.0167	4658.40	19.57	88.0167	4659.23	19.57	-0.84
98	2013/12/02	22:37:00	89.0167	4658.24	19.56	89.0167	4658.89	19.56	-0.65
99	2013/12/02	23:37:00	90.0167	4657.95	19.55	90.0167	4658.82	19.55	-0.87
100	2013/12/03	00:37:00	91.0167	4657.58	19.54	91.0167	4658.36	19.54	-0.79
101	2013/12/03	01:37:00	92.0167	4657.03	19.54	92.0167	4657.81	19.53	-0.78
102	2013/12/03	02:37:00	93.0167	4656.92	19.53	93.0167	4657.65	19.52	-0.72
103	2013/12/03	03:37:00	94.0167	4655.77	19.52	94.0167	4656.90	19.51	-1.12
104	2013/12/03	04:37:00	95.0167	4655.70	19.52	95.0167	4656.47	19.50	-0.76
105	2013/12/03	05:37:00	96.0167	4655.09	19.51	96.0167	4656.05	19.50	-0.96
106	2013/12/03	06:37:00	97.0167	4655.33	19.50	97.0167	4656.24	19.49	-0.92
107	2013/12/03	07:37:00	98.0167	4655.21	19.50	98.0167	4655.77	19.49	-0.56
108	2013/12/03	08:37:00	99.0167	4655.06	19.50	99.0167	4655.66	19.48	-0.60
109	2013/12/03	09:37:00	100.0167	4654.49	19.50	100.0167	4655.29	19.48	-0.80
110	2013/12/03	10:37:00	101.0167	4654.35	19.49	101.0167	4655.02	19.47	-0.67
111	2013/12/03	11:37:00	102.0167	4653.63	19.49	102.0167	4654.43	19.46	-0.80
112	2013/12/03	12:37:00	103.0167	4653.34	19.48	103.0167	4653.92	19.46	-0.58
113	2013/12/03	13:37:00	104.0167	4652.94	19.47	104.0167	4653.71	19.45	-0.77
114	2013/12/03	14:37:00	105.0167	4653.01	19.46	105.0167	4653.62	19.45	-0.61
115	2013/12/03	15:37:00	106.0167	4652.77	19.46	106.0167	4653.20	19.44	-0.43
116	2013/12/03	16:37:00	107.0167	4652.46	19.45	107.0167	4653.04	19.43	-0.58
117	2013/12/03	17:37:00	108.0167	4652.13	19.44	108.0167	4652.74	19.42	-0.61
118	2013/12/03	18:37:00	109.0167	4651.85	19.43	109.0167	4652.44	19.42	-0.60
119	2013/12/03	19:37:00	110.0167	4651.04	19.43	110.0167	4651.96	19.41	-0.93
120	2013/12/03	20:37:00	111.0167	4650.84	19.43	111.0167	4651.22	19.41	-0.38

LOWER Serial Number: 40432 Start Date: 2013/11/29 05:36:00 Run Depth: 590.00
UPPER Serial Number: 40442 Start Date: 2013/11/29 05:36:00 Run Depth: 589.70
Print Filter: Print every 1 hour

TUNDRA OIL & GAS PARTNERSHIP
104/02-19-016-27W1/00
Start Test Date: 2013/11/29
Final Test Date: 2013/12/04

TUNDRA BIRDTAIL UNIT No.2 HZNTL A2B-19-16-27
Formation: BAKKEN

RESERVOIR PRESSURE SURVEY

	LOWER Date	LOWER Clk Time	LOWER Time	LOWER Pres.	LOWER Temp.	UPPER Time	UPPER Pres.	UPPER Temp.	Diff. G1 - G2
	yyyy/mm/dd	hh:mm:ss	hr	kPa(a)	°C	hr	kPa(a)	°C	kPa
121	2013/12/03	21:37:00	112.0167	4650.15	19.42	112.0167	4650.96	19.40	-0.82
122	2013/12/03	22:37:00	113.0167	4649.92	19.41	113.0167	4650.66	19.39	-0.73
123	2013/12/03	23:37:00	114.0167	4649.36	19.40	114.0167	4650.11	19.39	-0.74
124	2013/12/04	00:37:00	115.0167	4649.28	19.40	115.0167	4649.82	19.38	-0.54
125	2013/12/04	01:37:00	116.0167	4648.93	19.39	116.0167	4649.55	19.38	-0.62
126	2013/12/04	02:37:00	117.0167	4648.71	19.39	117.0167	4649.19	19.37	-0.48
127	2013/12/04	03:37:00	118.0167	4648.43	19.39	118.0167	4649.20	19.36	-0.78
128	2013/12/04	04:37:00	119.0167	4648.32	19.37	119.0167	4649.17	19.36	-0.85
129	2013/12/04	05:37:00	120.0167	4647.90	19.36	120.0167	4648.84	19.35	-0.94
130	2013/12/04	06:37:00	121.0167	4647.94	19.36	121.0167	4648.41	19.35	-0.47
131	2013/12/04	07:37:00	122.0167	4647.21	19.36	122.0167	4648.05	19.34	-0.83
132	2013/12/04	08:37:00	123.0167	4647.79	19.36	123.0167	4648.29	19.34	-0.51
133	2013/12/04	09:37:00	124.0167	4647.35	19.36	124.0167	4647.90	19.33	-0.55
134	2013/12/04	10:37:00	125.0167	4647.10	19.35	125.0167	4647.67	19.32	-0.57
135	2013/12/04	11:37:00	126.0167	4646.61	19.33	126.0167	4647.16	19.32	-0.54
136	2013/12/04	12:37:00	127.0167	4646.14	19.32	127.0167	4646.86	19.32	-0.72
137	2013/12/04	13:00:00	127.4000	4646.29	19.33	127.4000	4647.15	19.31	-0.85
138	2013/12/04	13:00:00	127.4000	FINAL PRESSURE, UNSETTING BRIDGE PLUG					
139	2013/12/04	13:00:30	127.4084	4664.61	19.33	127.4084	4660.46	19.31	4.15
140	2013/12/04	13:35:30	127.9917	4649.30	19.34	127.9917	4649.84	19.32	-0.54
141	2013/12/04	13:35:30	127.9917	BRIDGE PLUG UNSET					
142	2013/12/04	13:36:00	128.0000	5369.43	19.34	128.0000	5340.53	19.32	28.91
143	2013/12/04	13:37:00	128.0167	5361.86	19.21	128.0167	5356.51	19.18	5.35
144	2013/12/04	13:59:00	128.3834	5277.25	18.76	128.3834	5295.00	18.72	-17.76
145	2013/12/04	13:59:00	128.3834	PULL OUT OF HOLE					
146	2013/12/04	13:59:30	128.3917	5257.60	18.71	128.3917	5234.97	18.71	22.62
147	2013/12/04	14:37:00	129.0167	98.76	4.26	129.0167	99.45	4.22	-0.69
148	2013/12/04	14:45:00	129.1500	98.58	3.71	129.1500	99.57	4.08	-0.99
149	2013/12/04	14:45:00	129.1500	TOOLS AT SURFACE					
150	2013/12/04	14:45:30	129.1584	98.81	3.56	129.1584	99.66	3.95	-0.85
151	2013/12/04	15:37:00	130.0167	97.94	-4.04	130.0167	100.52	-2.08	-2.58
152	2013/12/04	16:37:00	131.0167	82.13	-9.40	131.0167	111.73	-7.79	-29.61
153	2013/12/04	17:37:00	132.0167	101.24	-0.25	132.0167	104.14	-0.02	-2.90
154	2013/12/04	18:37:00	133.0167	102.08	2.44	133.0167	103.53	3.05	-1.45
155	2013/12/04	19:37:00	134.0167	101.85	1.73	134.0167	102.53	2.50	-0.67
156	2013/12/04	20:00:00	134.4000	101.36	1.43	134.4000	102.30	2.18	-0.93

LOWER Serial Number: 40432 Start Date: 2013/11/29 05:36:00 Run Depth: 590.00
UPPER Serial Number: 40442 Start Date: 2013/11/29 05:36:00 Run Depth: 589.70
Print Filter: Print every 1 hour

QUALITY WIRELINE SERVICES LTD.
634-7975

DATE: Dec.5, 2013	COMPANY: Tundra Oil & Gas Partnership
WELLNAME: Tundra Birdtail (4B-20)HZ 02-19-16-27WPM	ADDRESS: Virden
LOCATION:(4B-20)2-19-16-27W1	UWI:104.02-19-016-27W1.00
FIELD: Birtle	FORMATION: Bakken
CO HQ REP:	PHONE:
FIELD REP: Gord	PHONE:

REPORTS TO (NAME & EMAIL ADDRESS): Perkins, Chris <chris.perkins@tundraoilandgas.com>
Eric Bjornsson - eric.bjornsson@tundraoilandgas.com
Tyler Routledge - tyler.routledge@tundraoilandgas.com
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Bill Jenkins - bill.jenkins@tundraoilandgas.com
Adam Berke - adam.berke@tundraoilandgas.com
'derekbeare@gmail.com'

STATUS: Oil		TEST TYPE: Build up
ESTIMATED H2S CONTENT: 0%		ESTIMATED CO2 CONTENT: 0%
PRODUCING THROUGH: Tubing		SHUT IN TIME/DATE: 06:46 Nov.29/13
KOP: 336 mKB	TVD: Included	LICENCE #: 9639
PBTD: N/A	TD: 1243 mkB	WELL TYPE: Horizontal
CASING SIZE: 177.8mm	CSG WEIGHT: 34.23/29.76kg/m	CSG DEPTH: 635 mKB
TUBING SIZE: N/A	TBG WEIGHT: N/A	TBG DEPTH: N/A
Elevations KB: 480.5m	GRD: 476.4m	CF: 476.4m

PRODUCING INTERVAL

TYPE: Open Hole	SIZE:	INTERVAL: 635 - 1243 mKB

RECORDER INFORMATION

TOP S/N: 40442	FILE NAME: 4B-20-2-19-16-27W1	RANGE: 20,680 kPa
BOTTOM S/N: 40432	FILE NAME: 4B-20-2-19-16-27W1	RANGE: 20,680 kPa

TOP BATTERY S/N: N/A	BOTTOM BATTERY S/N: N/A
CONNECT TIME: 05:35 Nov.29/13	DISCONNECT TIME: 11:40 Dec.5/13

SURFACE TEMP: -18C	LEASE CONDITION: Good
WIRELINE OPERATOR:Chris Ball	PHONE:306-421-6050
WIRELINE ASSISSTANT:	
DIRECTIONS:	

DWG WELL HEAD PRESSURES:

TUBING (before survey): 0 kPa	CASING (before survey): 0 kPa
TUBING (after survey): 0 kPa	CASING (after survey): 0 kPa

FLUID LEVEL: N/A	RUN DEPTH: 590 mKB
TIME ON BOTTOM: 06:46 Nov.29/13	TIME OFF BOTTOM: 13:35 Dec.4/13

GRADIENT STOPS

DEPTH mKB:	N/A	FROM:	N/A	UNTIL:	N/A

COMMENTS:

DESCRIPTION OF WORK DONE:

Nov.29/13
The recorders were ran under a bridge plug by the drilling rig.
Dec.4/13
The recorders were pulled with pipe by the service rig
Dec.5/13
The recorders were downloaded