

**DALY UNIT NO. 8**  
**WATERFLOOD EOR PROJECT**  
**ANNUAL REPORT FOR 2014**

**May 25, 2015**

**Tundra Oil and Gas Partnership**

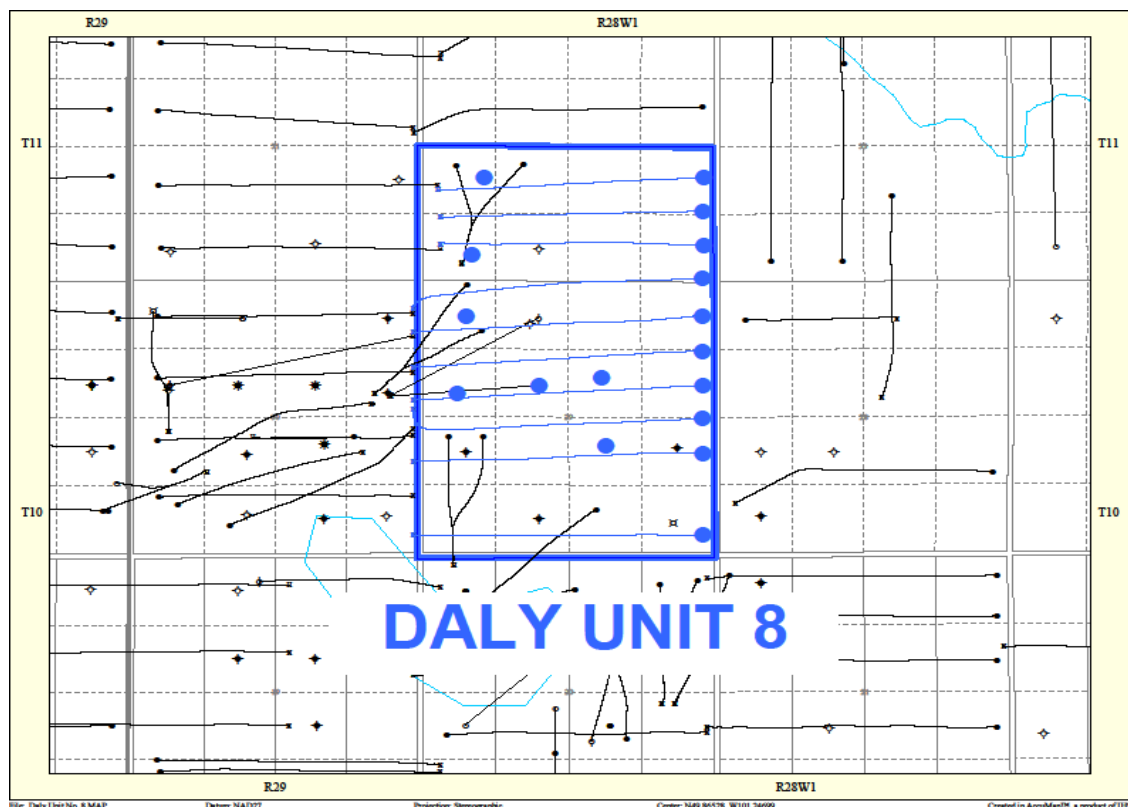
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## **INTRODUCTION**

Daly Unit No. 8 Enhanced Oil Recovery (EOR) Waterflood Project was approved effective October 1st, 2014 with Tundra Oil and Gas as Operator. The EOR project area, outlined in blue in Figure 1, contains 3 abandoned vertical wells, 4 vertical and 10 horizontal producing well in 24 LSDs in Township 10, Range 28W1. Well list and well status is available in Appendix A.

**Figure 1: Daly Unit No. 8 Area Outline**



In accordance with Section 73 of the Manitoba Drilling and Production Regulation, Tundra submits the following 2014 Annual Progress Report for Daly Unit No. 8.

## **DISCUSSION**

### **Production History**

For the wells included in Daly Unit No. 8, production started in February 1986 with the 00/07-29 and 00/10-29-010-28W1/00 wells. Oil production peaked at 60.0 m<sup>3</sup>/d in October of 2011. In 2014, the average production for the unit was 18.0 m<sup>3</sup>/d of oil and 112.4 m<sup>3</sup>/d of water, and the average WOR was 6.50 m<sup>3</sup>/m<sup>3</sup>. There is currently no water injection in Daly Unit No. 8. The rates and WOR are presented in Figure 2.

**Figure 2: Daly Unit No. 8 Production/Injection Rates and WOR vs. Time**

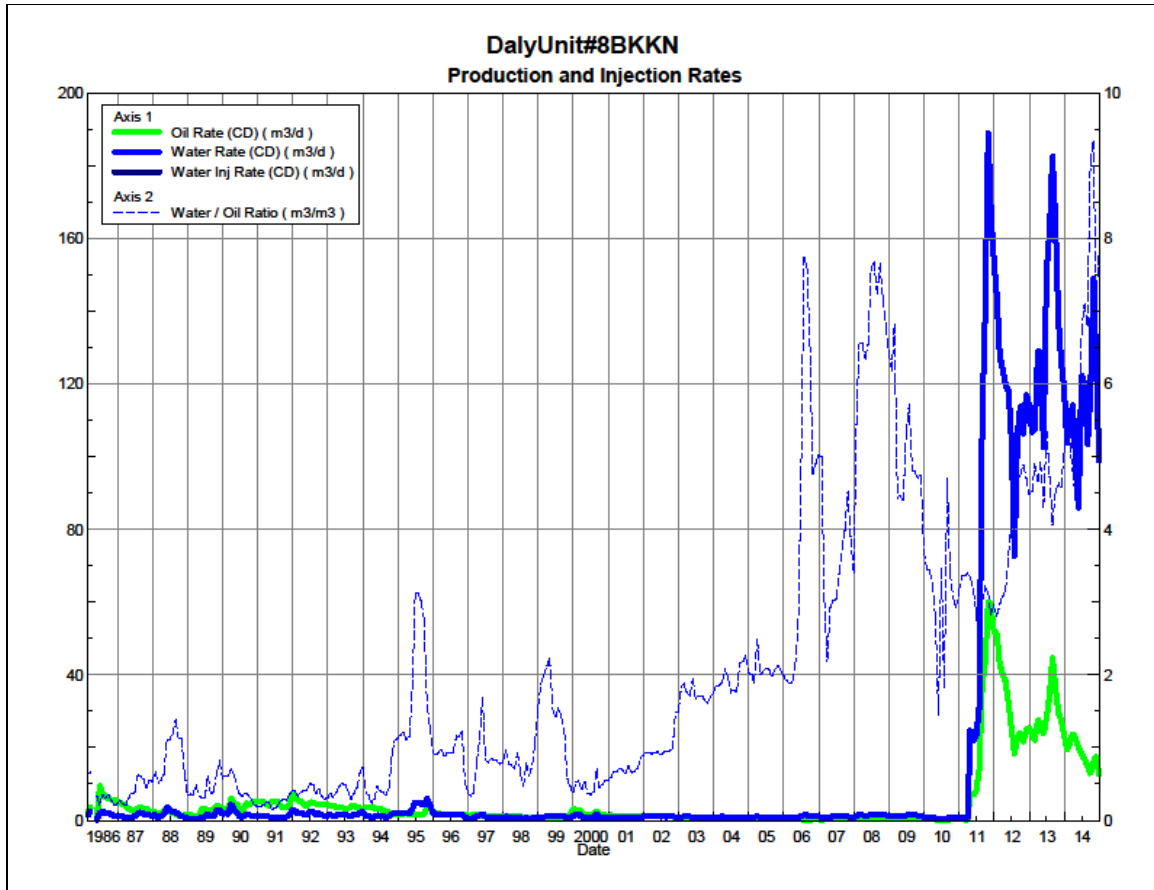
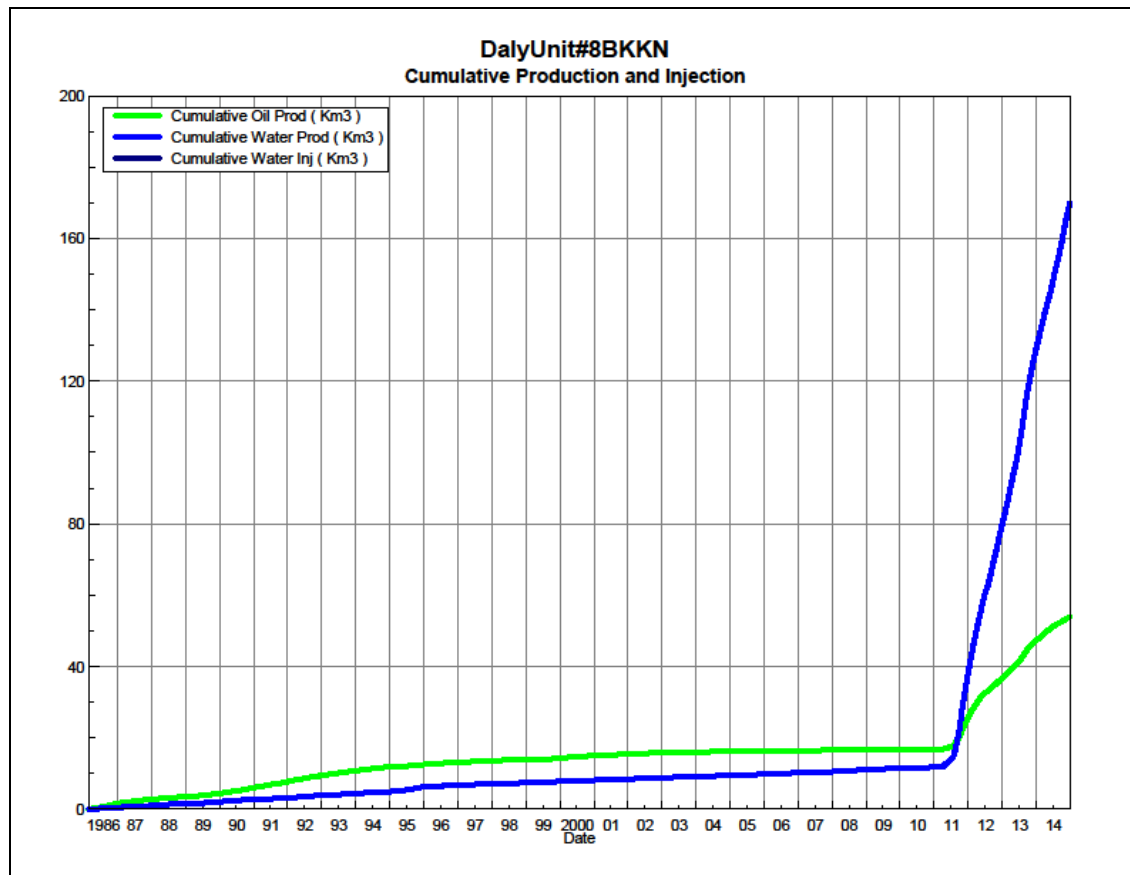


Figure 3 shows the cumulative production for Daly Unit No. 8 to the end of December 2014 as 54.0 e³m³ of oil and 170.1 e³m³ of water, representing a 7.8% recovery factor of the OOIP.

**Figure 3: Daly Unit No. 8 Cumulative Oil, Water and Water Injected vs. Time**



### **Waterflood History**

Daly Unit No. 8 is still in the development phase at the end of 2014. . The 02/08-29, 00/09-29, 00/16-29, 00/01-32 and 00/08-32-010-28W1 wells are existing producers that will be converted to injectors. All of the horizontal wells are fracture stimulated to improve the injection rates. In order to maximize recovery from this Unit, Tundra expects to produce all of the injectors for a short period of time to clean-up the reservoir near the wellbores prior to being converted into water injectors.

Production performance by injector pattern are summarized in Appendix B.

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 Operating Strategy and Performance**

### **Water Source and Quality**

Injection water for Daly Unit No. 8 will be supplied from the Jurassic source water well at 100/02-25-010-29W1 (00/02-25). Tundra received approval from the Petroleum Branch in March 2013 to use the 00/02-25 well as a source water well for waterflood operations. Jurassic-sourced water will be pumped from the 00/02-25 source well to the Daly 12-24-10-29 battery, where it will be filtered and then pumped up to injection system pressure.

### **Injection Wellhead Pressures**

No wellhead injection pressure is available for Daly Unit No. 8.

### **Reservoir Pressure**

Where practical, Tundra is committed to collecting pressure data from newly drilled injection wells. For Daly Unit No. 8, pressure data taken in 2013 from 4 locations is available. A summary table is presented in Appendix C. Pressures are corrected to a common datum of -450 m SS for comparison with other units in the area.

### **Well Servicing**

Table 1 lists the maintenance that was required in Daly Unit No. 8 in 2014.

**Table 1: Service and Maintenance in Daly Unit No. 8**

02/01-32-010-28W1/0	Pump Change / Tubing Reconfiguration	1/12/2014
03/08-29-010-28W1/0	Rod Failure	7/29/2014
00/08-32-010-28W1/0	Pump Change	8/5/2014
00/01-32-010-28W1/0	Cemented Liner Cleanout / Injector Conversion	9/2/2014
00/13-29-010-28W1/0	Suspend Bakken	12/4/2014
00/16-29-010-28W1/0	Cemented Liner Cleanout / Injector Conversion	12/15/2014

### **Waterflood Performance Discussion**

At the end of 2014, there is currently no water injection in Daly Unit No. 8. The waterflood area had 5 injection wells drilled in 2011 that are currently on production. Water injection is anticipated to begin in Q1 2015, after the expected conversion of the 00/16-29 and 00/01-32-010-28W1 producers to injectors.

A summary table of the injector pattern(s) is presented in Appendix B. Plots of the production are presented in Appendix D for each of the injection pattern(s).

## **List of Appendices**

Appendix A: Well List and Well Status

Appendix B: Daly Unit No. 8 Injection Pattern Summary

Appendix C: Daly Unit No. 8 Reservoir Pressure Summary

Appendix D: Injector Pattern Production/Injection Rates, Cumulative and VRR

Plot and Table for the following injectors:

02/08-29-010-28W1/0

00/09-29-010-28W1/0

00/16-29-010-28W1/0

00/01-32-010-28W1/0

00/08-32-010-28W1/0

## Appendix A

UWI	Well Status
102/01-29-010-28W1/0	Capable of OIL Prod
100/07-29-010-28W1/0	Abandoned
102/08-29-010-28W1/0	Capable of OIL Prod
103/08-29-010-28W1/0	Capable of OIL Prod
100/09-29-010-28W1/0	Capable of OIL Prod
100/10-29-010-28W1/0	Abandoned
100/11-29-010-28W1/0	Abandoned
100/12-29-010-28W1/0	Commingled
100/13-29-010-28W1/0	Commingled
100/16-29-010-28W1/0	Capable of OIL Prod
102/16-29-010-28W1/0	Capable of OIL Prod
100/01-32-010-28W1/0	Capable of OIL Prod
102/01-32-010-28W1/0	Capable of OIL Prod
100/04-32-010-28W1/0	Commingled
100/05-32-010-28W1/2	Commingled
100/08-32-010-28W1/0	Capable of OIL Prod
102/08-32-010-28W1/0	Capable of OIL Prod



Appendix B

Daily Unit No. 8 Pattern Summary as of December 2014

Pattern Name	Injector Location (010-28W1)	Status	No. of Supported Wells	Supported Wells (010-28W1)	Allocation Factor	Pattern Prod Start Month	Inj Start Month	Oil Rate (m³/d)	Water Rate (m³/d)	WOR (m³/m³)	Water Injection (m³/d)	Cum Oil (E³m³)	Cum Water (E³m³)	Cum Inj Water (E³m³)	Monthly VRR	Cum VRR
02/08-29-010-28 Injector	02/08-30	Capable of Oil Production	3	00/07-29 02/01-29, 03/08-29	1 0.5	Jul 2011	-	1.73	36.8	21.3		8.77	58.5	0.0	0.0	0.00
00/09-29-010-28 Injector	00/09-30	Capable of Oil Production	6	00/10-29, 00/11-29, 00/12-29, 00/13-29 03/08-29, 02/16-29	1 0.5	Jul 2011	-	3.39	24.64	7.26		17.02	40.87	0.0	0.0	0.00
00/16-29-010-28 Injector	00/16-30	Capable of Oil Production	2	02/16-29, 02/01-32	0.5	Jul 2011	-	2.58	17.34	6.72		8.72	24.04	0.0	0.0	0.00
00/01-32-010-28 Injector	00/04-32	Capable of Oil Production	3	00/04-32 02/01-32, 02/08-32	1 0.5	Apr 2011	-	2.11	11.03	5.24		10.2	27.1	0.0	0.0	0.00
00/08-32-010-28 Injector	00/05-32	Capable of Oil Production	2	00/05-32 02/08-32	1 0.5	Mar 2011	-	2.43	7.1	2.92		7.76	14.22	0.0	0.0	0.00

## APPENDIX C

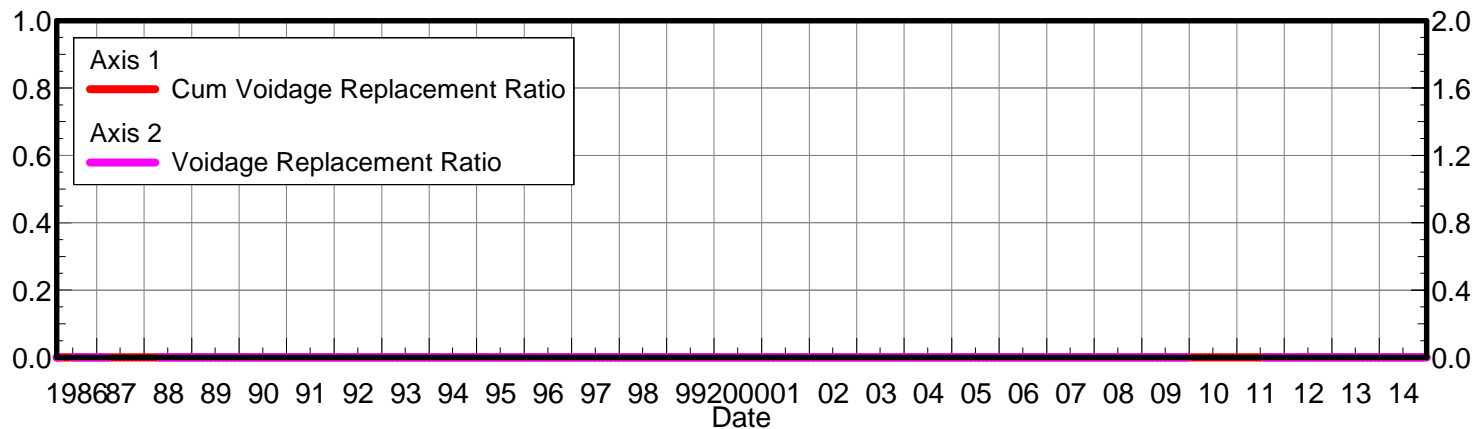
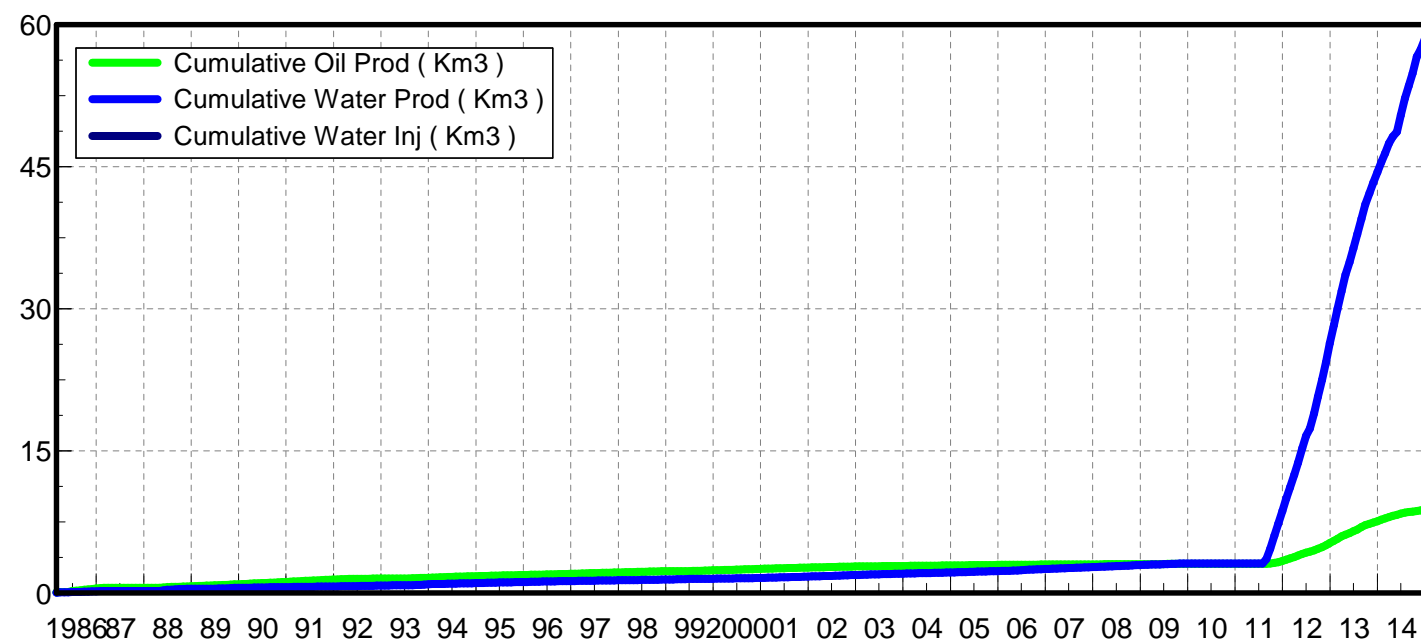
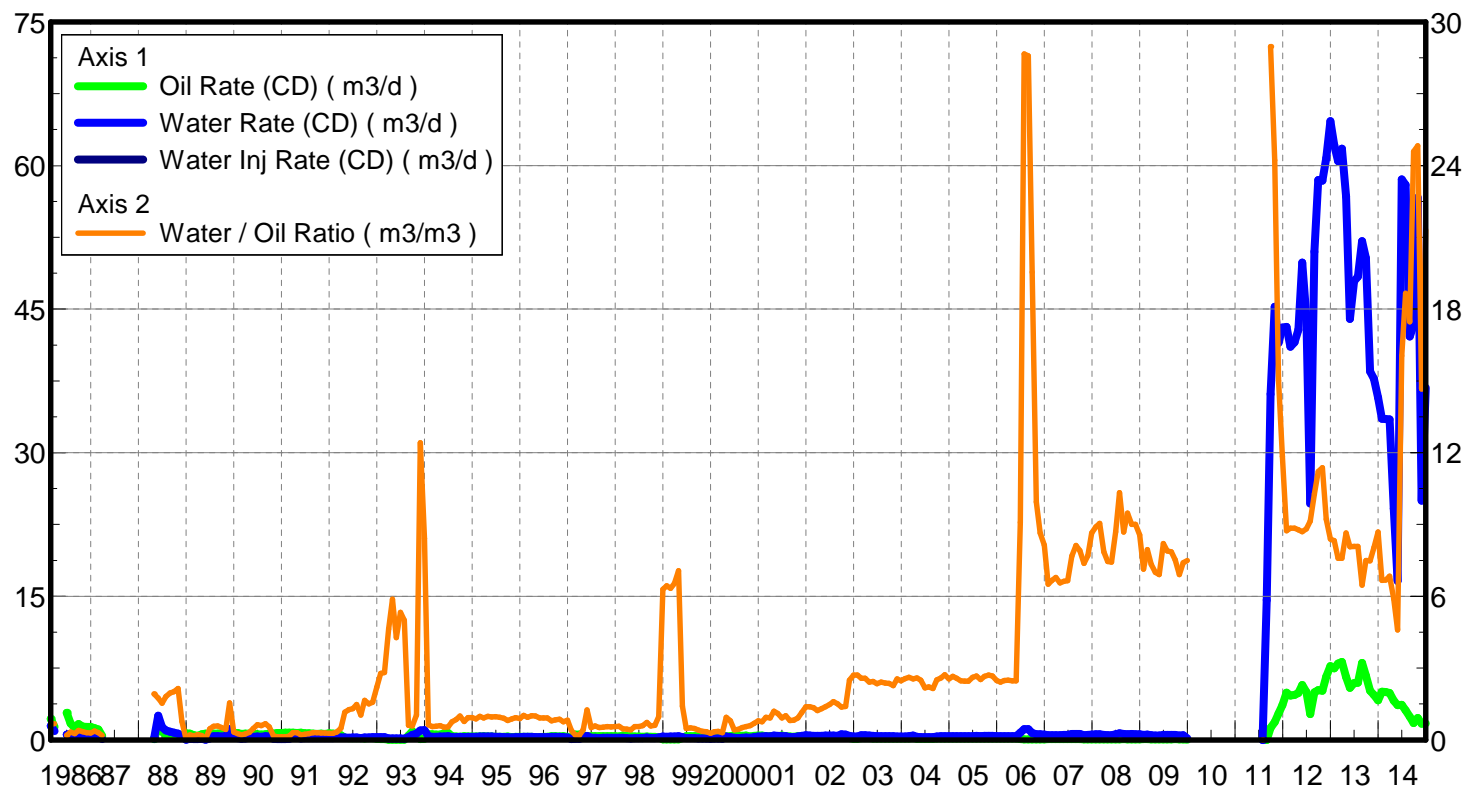
### Daly Unit No. 8 - Pressure Summary

Location	Test Date	Final Pressure (kPaa)	MPP (mTVD)	KB	Datum Depth	Gradient	Pressure @ -450 masl
103/08-29-010-28W1/00	Feb 2nd - 22nd, 2013	5526.5	819.6	519.9	-450	8.25	6767
102/16-29-010-28W1/00	Jan 28th - Feb 11th, 2013	4229.8	818.2	519.3	-450	8.25	5476
102/01-32-010-28W1/00	Feb 9th - 23rd, 2013	5702.6	825.9	520.1	-450	8.25	6892
102/08-32-010-28W1/00	Jan 18th - 29th, 2013	3905.8	825.1	520.7	-450	8.25	5107

## **Appendix D**

### **Rates and VRR Plots**

Oil Formation Vol Factor : 1.00150 m3/m3  
Water Formation Vol Factor : 1.00150 m3/m3  
Water / Oil Ratio : 21.30 m3/m3  
Pattern : 02/08-29-010-28Inj Set: DalyUnit#8BKKN  
May 25, 2015  
Operator: Tundra\_O&G\_Prtshp  
Oil Rate (CD) : 1.73 m3/d  
Water Rate (CD) : 36.80 m3/d  
Water Inj Rate (CD) : \* 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 Replacemnt Ratio
2/28/1986	2.21	1.47	0.67		0.06	0.04	0.00	0.000	0.000
3/31/1986	1.36	0.92	0.67		0.10	0.07	0.00	0.000	0.000
6/30/1986	2.82	0.54	0.19		0.19	0.09	0.00	0.000	0.000
7/31/1986	1.72	0.58	0.34		0.24	0.10	0.00	0.000	0.000
8/31/1986	1.27	0.34	0.27		0.28	0.11	0.00	0.000	0.000
9/30/1986	1.64	0.65	0.39		0.33	0.13	0.00	0.000	0.000
10/31/1986	1.40	0.47	0.34		0.37	0.15	0.00	0.000	0.000
11/30/1986	1.37	0.42	0.31		0.41	0.16	0.00	0.000	0.000
12/31/1986	1.35	0.39	0.29		0.46	0.17	0.00	0.000	0.000
1/31/1987	1.22	0.44	0.36		0.49	0.19	0.00	0.000	0.000
2/28/1987	1.10	0.33	0.30		0.53	0.20	0.00	0.000	0.000
3/31/1987	0.42	0.07	0.18		0.54	0.20	0.00	0.000	0.000
4/30/1988	0.08	0.15	1.92		0.54	0.20	0.00	0.000	0.000
5/31/1988	1.45	2.54	1.75		0.59	0.28	0.00	0.000	0.000
6/30/1988	0.86	1.32	1.53		0.61	0.32	0.00	0.000	0.000
7/31/1988	0.55	1.00	1.82		0.63	0.35	0.00	0.000	0.000
8/31/1988	0.44	0.86	1.96		0.64	0.38	0.00	0.000	0.000
9/30/1988	0.37	0.75	2.02		0.65	0.40	0.00	0.000	0.000
10/31/1988	0.30	0.65	2.15		0.66	0.42	0.00	0.000	0.000
11/30/1988	0.51	0.39	0.77		0.68	0.43	0.00	0.000	0.000
12/31/1988	0.69	0.02	0.03		0.70	0.43	0.00	0.000	0.000
1/31/1989	0.66	0.14	0.20		0.72	0.44	0.00	0.000	0.000
2/28/1989	0.47	0.08	0.17		0.73	0.44	0.00	0.000	0.000
3/31/1989	0.43	0.09	0.22		0.75	0.44	0.00	0.000	0.000
4/30/1989	0.58	0.10	0.18		0.76	0.45	0.00	0.000	0.000
5/31/1989	0.65	0.03	0.04		0.78	0.45	0.00	0.000	0.000
6/30/1989	0.35	0.16	0.46		0.79	0.45	0.00	0.000	0.000
7/31/1989	0.65	0.37	0.57		0.81	0.46	0.00	0.000	0.000
8/31/1989	0.64	0.37	0.58		0.83	0.47	0.00	0.000	0.000
9/30/1989	0.70	0.36	0.51		0.86	0.49	0.00	0.000	0.000
10/31/1989	0.79	0.35	0.44		0.88	0.50	0.00	0.000	0.000
11/30/1989	0.73	1.13	1.55		0.90	0.53	0.00	0.000	0.000
12/31/1989	0.64	0.21	0.32		0.92	0.54	0.00	0.000	0.000
1/31/1990	0.71	0.19	0.26		0.94	0.54	0.00	0.000	0.000
2/28/1990	0.63	0.13	0.21		0.96	0.55	0.00	0.000	0.000
3/31/1990	0.66	0.16	0.25		0.98	0.55	0.00	0.000	0.000
4/30/1990	0.64	0.21	0.32		1.00	0.56	0.00	0.000	0.000
5/31/1990	0.65	0.31	0.47		1.02	0.57	0.00	0.000	0.000
6/30/1990	0.57	0.37	0.64		1.04	0.58	0.00	0.000	0.000
7/31/1990	0.55	0.33	0.59		1.06	0.59	0.00	0.000	0.000
8/31/1990	0.58	0.39	0.68		1.07	0.60	0.00	0.000	0.000
9/30/1990	0.66	0.36	0.54		1.09	0.61	0.00	0.000	0.000
10/31/1990	0.65	0.11	0.16		1.11	0.61	0.00	0.000	0.000
11/30/1990	0.72	0.10	0.13		1.14	0.62	0.00	0.000	0.000
12/31/1990	0.72	0.09	0.13		1.16	0.62	0.00	0.000	0.000
1/31/1991	0.74	0.09	0.13		1.18	0.62	0.00	0.000	0.000
2/28/1991	0.76	0.12	0.16		1.20	0.63	0.00	0.000	0.000
3/31/1991	0.76	0.23	0.30		1.23	0.63	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
4/30/1991	0.72	0.21	0.30		1.25	0.64	0.00	0.000	0.000
5/31/1991	0.76	0.16	0.21		1.27	0.64	0.00	0.000	0.000
6/30/1991	0.70	0.17	0.24		1.29	0.65	0.00	0.000	0.000
7/31/1991	0.70	0.18	0.26		1.31	0.66	0.00	0.000	0.000
8/31/1991	0.64	0.19	0.30		1.33	0.66	0.00	0.000	0.000
9/30/1991	0.64	0.19	0.30		1.35	0.67	0.00	0.000	0.000
10/31/1991	0.64	0.18	0.29		1.37	0.67	0.00	0.000	0.000
11/30/1991	0.64	0.19	0.29		1.39	0.68	0.00	0.000	0.000
12/31/1991	0.67	0.19	0.28		1.41	0.68	0.00	0.000	0.000
1/31/1992	0.65	0.18	0.28		1.43	0.69	0.00	0.000	0.000
2/29/1992	0.62	0.21	0.33		1.45	0.70	0.00	0.000	0.000
3/31/1992	0.49	0.24	0.49		1.47	0.70	0.00	0.000	0.000
4/30/1992	0.21	0.24	1.16		1.47	0.71	0.00	0.000	0.000
5/31/1992	0.18	0.23	1.27		1.48	0.72	0.00	0.000	0.000
6/30/1992	0.20	0.26	1.30		1.48	0.73	0.00	0.000	0.000
7/31/1992	0.18	0.26	1.47		1.49	0.73	0.00	0.000	0.000
8/31/1992	0.17	0.18	1.04		1.49	0.74	0.00	0.000	0.000
9/30/1992	0.16	0.27	1.65		1.50	0.75	0.00	0.000	0.000
10/31/1992	0.18	0.27	1.51		1.51	0.76	0.00	0.000	0.000
11/30/1992	0.18	0.28	1.57		1.51	0.76	0.00	0.000	0.000
12/31/1992	0.13	0.28	2.20		1.51	0.77	0.00	0.000	0.000
1/31/1993	0.10	0.28	2.77		1.52	0.78	0.00	0.000	0.000
2/28/1993	0.10	0.28	2.82		1.52	0.79	0.00	0.000	0.000
3/31/1993	0.04	0.16	4.64		1.52	0.79	0.00	0.000	0.000
4/30/1993	0.03	0.16	5.88		1.52	0.80	0.00	0.000	0.000
5/31/1993	0.04	0.15	4.27		1.52	0.80	0.00	0.000	0.000
6/30/1993	0.03	0.16	5.33		1.52	0.81	0.00	0.000	0.000
7/31/1993	0.02	0.11	5.00		1.53	0.81	0.00	0.000	0.000
8/31/1993	0.46	0.28	0.62		1.54	0.82	0.00	0.000	0.000
9/30/1993	0.90	0.53	0.58		1.57	0.84	0.00	0.000	0.000
10/31/1993	0.63	0.65	1.04		1.59	0.86	0.00	0.000	0.000
11/30/1993	0.08	0.99	12.42		1.59	0.89	0.00	0.000	0.000
12/31/1993	0.12	1.03	8.42		1.59	0.92	0.00	0.000	0.000
1/31/1994	0.60	0.38	0.64		1.61	0.93	0.00	0.000	0.000
2/28/1994	0.57	0.32	0.56		1.63	0.94	0.00	0.000	0.000
3/31/1994	0.55	0.32	0.57		1.64	0.95	0.00	0.000	0.000
4/30/1994	0.57	0.34	0.60		1.66	0.96	0.00	0.000	0.000
5/31/1994	0.67	0.36	0.53		1.68	0.97	0.00	0.000	0.000
6/30/1994	0.72	0.39	0.55		1.70	0.98	0.00	0.000	0.000
7/31/1994	0.39	0.30	0.76		1.72	0.99	0.00	0.000	0.000
8/31/1994	0.36	0.30	0.85		1.73	1.00	0.00	0.000	0.000
9/30/1994	0.33	0.33	1.00		1.74	1.01	0.00	0.000	0.000
10/31/1994	0.37	0.29	0.77		1.75	1.02	0.00	0.000	0.000
11/30/1994	0.35	0.33	0.92		1.76	1.03	0.00	0.000	0.000
12/31/1994	0.36	0.34	0.94		1.77	1.04	0.00	0.000	0.000
1/31/1995	0.35	0.31	0.87		1.78	1.05	0.00	0.000	0.000
2/28/1995	0.36	0.35	0.98		1.79	1.06	0.00	0.000	0.000
3/31/1995	0.37	0.34	0.91		1.80	1.07	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
4/30/1995	0.35	0.34	0.99		1.81	1.08	0.00	0.000	0.000
5/31/1995	0.35	0.34	0.96		1.82	1.09	0.00	0.000	0.000
6/30/1995	0.33	0.32	0.97		1.83	1.10	0.00	0.000	0.000
7/31/1995	0.33	0.31	0.94		1.84	1.11	0.00	0.000	0.000
8/31/1995	0.34	0.30	0.90		1.85	1.12	0.00	0.000	0.000
9/30/1995	0.36	0.29	0.81		1.87	1.13	0.00	0.000	0.000
10/31/1995	0.27	0.24	0.88		1.87	1.14	0.00	0.000	0.000
11/30/1995	0.32	0.30	0.93		1.88	1.15	0.00	0.000	0.000
12/31/1995	0.33	0.29	0.89		1.89	1.15	0.00	0.000	0.000
1/31/1996	0.31	0.32	1.02		1.90	1.16	0.00	0.000	0.000
2/29/1996	0.33	0.31	0.94		1.91	1.17	0.00	0.000	0.000
3/31/1996	0.32	0.32	1.01		1.92	1.18	0.00	0.000	0.000
4/30/1996	0.30	0.30	1.00		1.93	1.19	0.00	0.000	0.000
5/31/1996	0.30	0.27	0.91		1.94	1.20	0.00	0.000	0.000
6/30/1996	0.32	0.29	0.92		1.95	1.21	0.00	0.000	0.000
7/31/1996	0.33	0.30	0.91		1.96	1.22	0.00	0.000	0.000
8/31/1996	0.38	0.31	0.80		1.97	1.23	0.00	0.000	0.000
9/30/1996	0.37	0.31	0.84		1.98	1.24	0.00	0.000	0.000
10/31/1996	0.37	0.32	0.86		2.00	1.25	0.00	0.000	0.000
11/30/1996	0.38	0.29	0.76		2.01	1.26	0.00	0.000	0.000
12/31/1996	0.31	0.26	0.82		2.02	1.26	0.00	0.000	0.000
1/31/1997	0.22	0.09	0.39		2.02	1.27	0.00	0.000	0.000
2/28/1997	0.56	0.12	0.21		2.04	1.27	0.00	0.000	0.000
3/31/1997	0.57	0.11	0.19		2.06	1.27	0.00	0.000	0.000
4/30/1997	0.49	0.21	0.42		2.07	1.28	0.00	0.000	0.000
5/31/1997	0.33	0.41	1.26		2.08	1.29	0.00	0.000	0.000
6/30/1997	0.40	0.21	0.52		2.09	1.30	0.00	0.000	0.000
7/31/1997	0.38	0.22	0.58		2.11	1.31	0.00	0.000	0.000
8/31/1997	0.38	0.20	0.51		2.12	1.31	0.00	0.000	0.000
9/30/1997	0.39	0.21	0.53		2.13	1.32	0.00	0.000	0.000
10/31/1997	0.37	0.21	0.56		2.14	1.32	0.00	0.000	0.000
11/30/1997	0.38	0.21	0.55		2.15	1.33	0.00	0.000	0.000
12/31/1997	0.38	0.21	0.56		2.16	1.34	0.00	0.000	0.000
1/31/1998	0.36	0.21	0.58		2.17	1.34	0.00	0.000	0.000
2/28/1998	0.45	0.20	0.46		2.19	1.35	0.00	0.000	0.000
3/31/1998	0.39	0.17	0.45		2.20	1.35	0.00	0.000	0.000
4/30/1998	0.37	0.16	0.42		2.21	1.36	0.00	0.000	0.000
5/31/1998	0.35	0.19	0.55		2.22	1.36	0.00	0.000	0.000
6/30/1998	0.35	0.20	0.56		2.23	1.37	0.00	0.000	0.000
7/31/1998	0.33	0.20	0.60		2.24	1.38	0.00	0.000	0.000
8/31/1998	0.35	0.25	0.73		2.25	1.38	0.00	0.000	0.000
9/30/1998	0.33	0.19	0.58		2.26	1.39	0.00	0.000	0.000
10/31/1998	0.33	0.20	0.61		2.27	1.40	0.00	0.000	0.000
11/30/1998	0.26	0.26	0.97		2.28	1.40	0.00	0.000	0.000
12/31/1998	0.05	0.35	6.29		2.28	1.42	0.00	0.000	0.000
1/31/1999	0.05	0.33	6.44		2.28	1.43	0.00	0.000	0.000
2/28/1999	0.05	0.34	6.33		2.29	1.44	0.00	0.000	0.000
3/31/1999	0.05	0.36	6.53		2.29	1.45	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
4/30/1999	0.05	0.38	7.06		2.29	1.46	0.00	0.000	0.000
5/31/1999	0.20	0.28	1.41		2.29	1.47	0.00	0.000	0.000
6/30/1999	0.38	0.18	0.47		2.31	1.47	0.00	0.000	0.000
7/31/1999	0.39	0.20	0.51		2.32	1.48	0.00	0.000	0.000
8/31/1999	0.40	0.19	0.48		2.33	1.48	0.00	0.000	0.000
9/30/1999	0.39	0.16	0.41		2.34	1.49	0.00	0.000	0.000
10/31/1999	0.44	0.15	0.35		2.36	1.49	0.00	0.000	0.000
11/30/1999	0.47	0.16	0.34		2.37	1.50	0.00	0.000	0.000
12/31/1999	0.46	0.13	0.28		2.38	1.50	0.00	0.000	0.000
1/31/2000	0.42	0.15	0.34		2.40	1.51	0.00	0.000	0.000
2/29/2000	0.42	0.15	0.36		2.41	1.51	0.00	0.000	0.000
3/31/2000	0.45	0.14	0.30		2.42	1.51	0.00	0.000	0.000
4/30/2000	0.36	0.34	0.94		2.43	1.52	0.00	0.000	0.000
5/31/2000	0.38	0.30	0.79		2.45	1.53	0.00	0.000	0.000
6/30/2000	0.48	0.20	0.42		2.46	1.54	0.00	0.000	0.000
7/31/2000	0.46	0.20	0.43		2.47	1.55	0.00	0.000	0.000
8/31/2000	0.43	0.22	0.52		2.49	1.55	0.00	0.000	0.000
9/30/2000	0.47	0.26	0.55		2.50	1.56	0.00	0.000	0.000
10/31/2000	0.36	0.22	0.60		2.51	1.57	0.00	0.000	0.000
11/30/2000	0.41	0.28	0.69		2.53	1.58	0.00	0.000	0.000
12/31/2000	0.45	0.36	0.79		2.54	1.59	0.00	0.000	0.000
1/31/2001	0.45	0.35	0.76		2.55	1.60	0.00	0.000	0.000
2/28/2001	0.40	0.38	0.94		2.56	1.61	0.00	0.000	0.000
3/31/2001	0.40	0.36	0.91		2.58	1.62	0.00	0.000	0.000
4/30/2001	0.38	0.46	1.19		2.59	1.63	0.00	0.000	0.000
5/31/2001	0.39	0.43	1.10		2.60	1.65	0.00	0.000	0.000
6/30/2001	0.44	0.40	0.92		2.61	1.66	0.00	0.000	0.000
7/31/2001	0.40	0.40	1.02		2.63	1.67	0.00	0.000	0.000
8/31/2001	0.35	0.28	0.81		2.64	1.68	0.00	0.000	0.000
9/30/2001	0.33	0.28	0.83		2.65	1.69	0.00	0.000	0.000
10/31/2001	0.37	0.34	0.92		2.66	1.70	0.00	0.000	0.000
11/30/2001	0.35	0.41	1.15		2.67	1.71	0.00	0.000	0.000
12/31/2001	0.35	0.48	1.38		2.68	1.73	0.00	0.000	0.000
1/31/2002	0.32	0.44	1.39		2.69	1.74	0.00	0.000	0.000
2/28/2002	0.30	0.41	1.34		2.70	1.75	0.00	0.000	0.000
3/31/2002	0.34	0.41	1.23		2.71	1.76	0.00	0.000	0.000
4/30/2002	0.32	0.42	1.31		2.72	1.78	0.00	0.000	0.000
5/31/2002	0.32	0.45	1.39		2.73	1.79	0.00	0.000	0.000
6/30/2002	0.31	0.46	1.48		2.74	1.80	0.00	0.000	0.000
7/31/2002	0.29	0.47	1.59		2.75	1.82	0.00	0.000	0.000
8/31/2002	0.29	0.43	1.51		2.76	1.83	0.00	0.000	0.000
9/30/2002	0.43	0.59	1.38		2.77	1.85	0.00	0.000	0.000
10/31/2002	0.39	0.55	1.40		2.78	1.87	0.00	0.000	0.000
11/30/2002	0.17	0.42	2.49		2.79	1.88	0.00	0.000	0.000
12/31/2002	0.14	0.37	2.71		2.79	1.89	0.00	0.000	0.000
1/31/2003	0.13	0.36	2.71		2.79	1.90	0.00	0.000	0.000
2/28/2003	0.19	0.48	2.58		2.80	1.92	0.00	0.000	0.000
3/31/2003	0.19	0.48	2.57		2.80	1.93	0.00	0.000	0.000

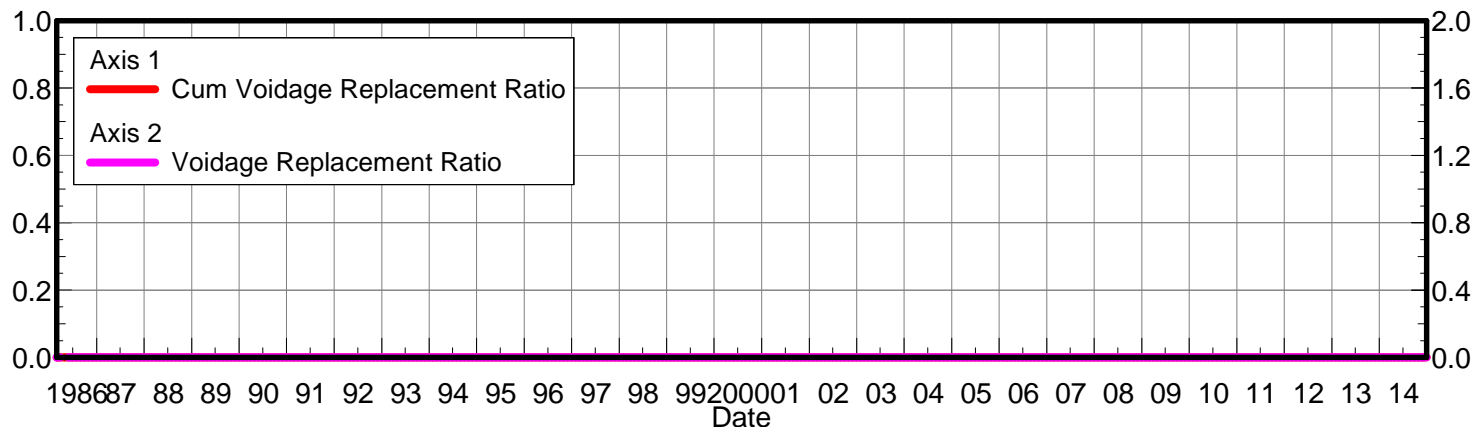
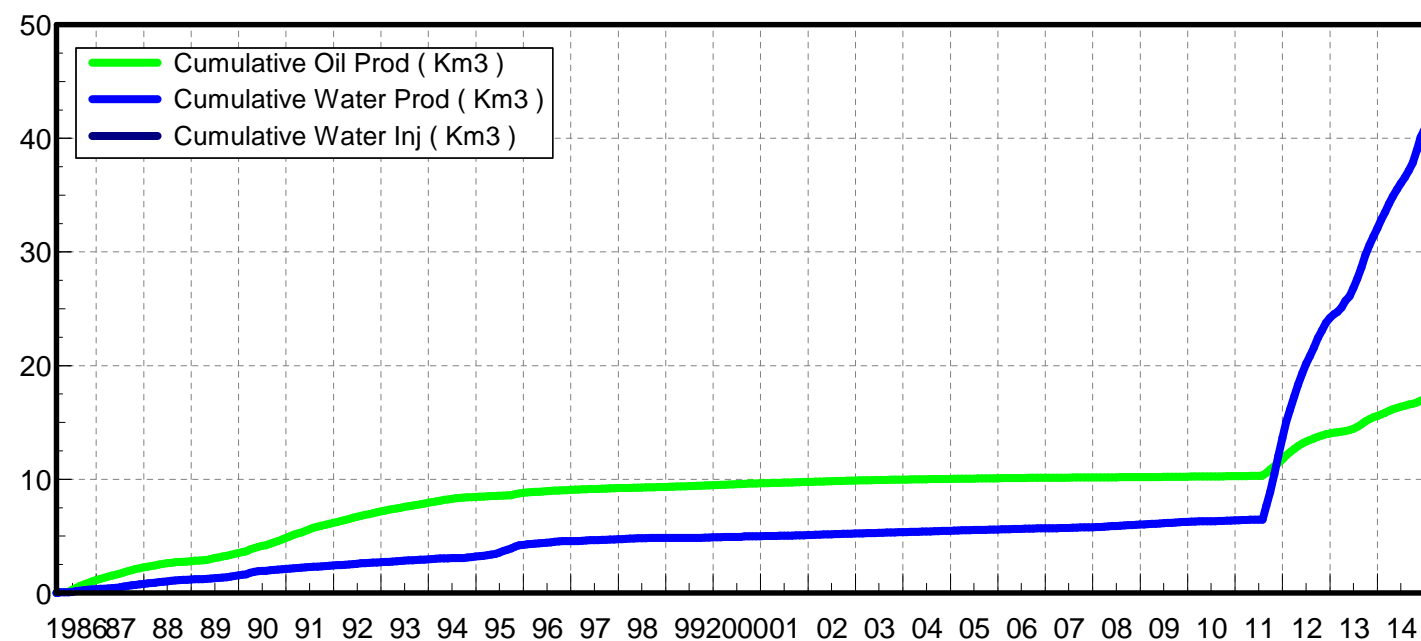
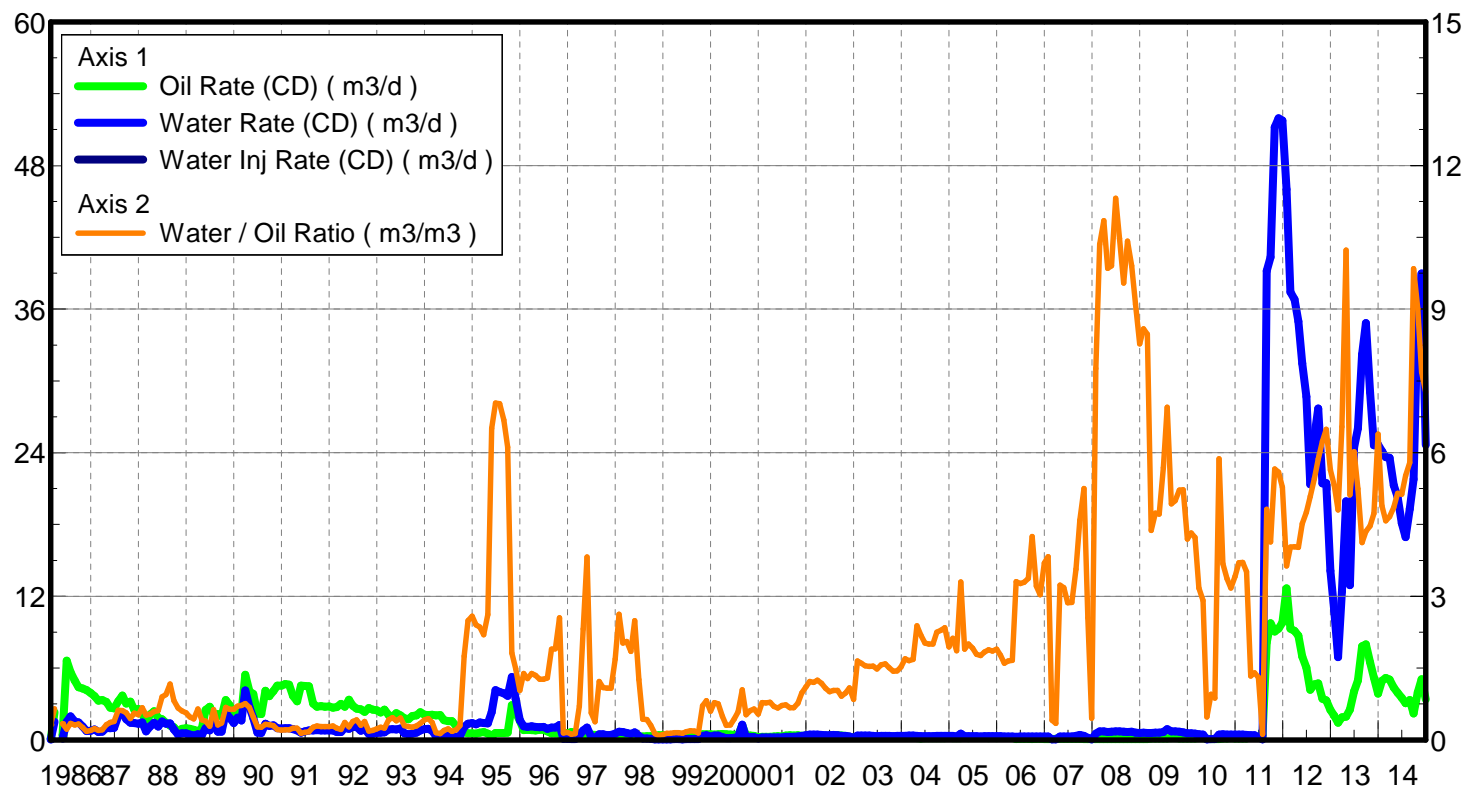


Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	Voidage Replacement Ratio	Cum Voidage Replacemnt Ratio
4/30/2003	0.19	0.45	2.41		2.81	1.94	0.00	0.000	0.000
5/31/2003	0.17	0.41	2.44		2.82	1.96	0.00	0.000	0.000
6/30/2003	0.16	0.38	2.35		2.82	1.97	0.00	0.000	0.000
7/31/2003	0.16	0.38	2.41		2.83	1.98	0.00	0.000	0.000
8/31/2003	0.16	0.38	2.38		2.83	1.99	0.00	0.000	0.000
9/30/2003	0.16	0.39	2.37		2.84	2.00	0.00	0.000	0.000
10/31/2003	0.17	0.38	2.27		2.84	2.02	0.00	0.000	0.000
11/30/2003	0.14	0.36	2.55		2.84	2.03	0.00	0.000	0.000
12/31/2003	0.14	0.34	2.47		2.85	2.04	0.00	0.000	0.000
1/31/2004	0.14	0.36	2.57		2.85	2.05	0.00	0.000	0.000
2/29/2004	0.14	0.38	2.62		2.86	2.06	0.00	0.000	0.000
3/31/2004	0.18	0.46	2.55		2.86	2.07	0.00	0.000	0.000
4/30/2004	0.12	0.32	2.59		2.87	2.08	0.00	0.000	0.000
5/31/2004	0.12	0.29	2.50		2.87	2.09	0.00	0.000	0.000
6/30/2004	0.13	0.29	2.17		2.87	2.10	0.00	0.000	0.000
7/31/2004	0.13	0.29	2.22		2.88	2.11	0.00	0.000	0.000
8/31/2004	0.14	0.29	2.14		2.88	2.12	0.00	0.000	0.000
9/30/2004	0.14	0.36	2.51		2.89	2.13	0.00	0.000	0.000
10/31/2004	0.15	0.38	2.59		2.89	2.14	0.00	0.000	0.000
11/30/2004	0.15	0.40	2.73		2.90	2.15	0.00	0.000	0.000
12/31/2004	0.15	0.38	2.54		2.90	2.16	0.00	0.000	0.000
1/31/2005	0.15	0.39	2.65		2.91	2.18	0.00	0.000	0.000
2/28/2005	0.15	0.40	2.58		2.91	2.19	0.00	0.000	0.000
3/31/2005	0.16	0.39	2.47		2.91	2.20	0.00	0.000	0.000
4/30/2005	0.15	0.38	2.46		2.92	2.21	0.00	0.000	0.000
5/31/2005	0.15	0.38	2.46		2.92	2.22	0.00	0.000	0.000
6/30/2005	0.15	0.40	2.61		2.93	2.24	0.00	0.000	0.000
7/31/2005	0.15	0.41	2.67		2.93	2.25	0.00	0.000	0.000
8/31/2005	0.15	0.39	2.52		2.94	2.26	0.00	0.000	0.000
9/30/2005	0.15	0.41	2.65		2.94	2.27	0.00	0.000	0.000
10/31/2005	0.15	0.41	2.70		2.95	2.29	0.00	0.000	0.000
11/30/2005	0.15	0.41	2.67		2.95	2.30	0.00	0.000	0.000
12/31/2005	0.15	0.38	2.48		2.96	2.31	0.00	0.000	0.000
1/31/2006	0.16	0.39	2.42		2.96	2.32	0.00	0.000	0.000
2/28/2006	0.16	0.39	2.48		2.97	2.33	0.00	0.000	0.000
3/31/2006	0.15	0.39	2.50		2.97	2.34	0.00	0.000	0.000
4/30/2006	0.16	0.39	2.47		2.98	2.36	0.00	0.000	0.000
5/31/2006	0.16	0.39	2.47		2.98	2.37	0.00	0.000	0.000
6/30/2006	0.08	0.76	9.08		2.98	2.39	0.00	0.000	0.000
7/31/2006	0.04	1.11	28.67		2.98	2.43	0.00	0.000	0.000
8/31/2006	0.04	1.11	28.58		2.99	2.46	0.00	0.000	0.000
9/30/2006	0.04	0.72	19.55		2.99	2.48	0.00	0.000	0.000
10/31/2006	0.06	0.58	9.94		2.99	2.50	0.00	0.000	0.000
11/30/2006	0.07	0.58	8.65		2.99	2.52	0.00	0.000	0.000
12/31/2006	0.07	0.55	8.14		2.99	2.53	0.00	0.000	0.000
1/31/2007	0.08	0.50	6.50		2.99	2.55	0.00	0.000	0.000
2/28/2007	0.07	0.50	6.67		3.00	2.56	0.00	0.000	0.000
3/31/2007	0.07	0.50	6.78		3.00	2.58	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
4/30/2007	0.08	0.50	6.57		3.00	2.59	0.00	0.000	0.000
5/31/2007	0.08	0.51	6.63		3.00	2.61	0.00	0.000	0.000
6/30/2007	0.08	0.51	6.65		3.01	2.62	0.00	0.000	0.000
7/31/2007	0.08	0.62	7.68		3.01	2.64	0.00	0.000	0.000
8/31/2007	0.08	0.63	8.13		3.01	2.66	0.00	0.000	0.000
9/30/2007	0.08	0.61	7.91		3.01	2.68	0.00	0.000	0.000
10/31/2007	0.07	0.50	7.38		3.02	2.70	0.00	0.000	0.000
11/30/2007	0.07	0.51	7.70		3.02	2.71	0.00	0.000	0.000
12/31/2007	0.06	0.56	8.65		3.02	2.73	0.00	0.000	0.000
1/31/2008	0.07	0.60	8.90		3.02	2.75	0.00	0.000	0.000
2/29/2008	0.07	0.59	9.05		3.02	2.77	0.00	0.000	0.000
3/31/2008	0.06	0.51	7.85		3.03	2.78	0.00	0.000	0.000
4/30/2008	0.07	0.50	7.45		3.03	2.80	0.00	0.000	0.000
5/31/2008	0.07	0.50	7.43		3.03	2.81	0.00	0.000	0.000
6/30/2008	0.07	0.58	8.70		3.03	2.83	0.00	0.000	0.000
7/31/2008	0.07	0.70	10.33		3.03	2.85	0.00	0.000	0.000
8/31/2008	0.07	0.62	8.68		3.04	2.87	0.00	0.000	0.000
9/30/2008	0.06	0.60	9.47		3.04	2.89	0.00	0.000	0.000
10/31/2008	0.07	0.61	9.00		3.04	2.91	0.00	0.000	0.000
11/30/2008	0.07	0.60	9.00		3.04	2.92	0.00	0.000	0.000
12/31/2008	0.07	0.58	8.57		3.04	2.94	0.00	0.000	0.000
1/31/2009	0.07	0.51	7.14		3.05	2.96	0.00	0.000	0.000
2/28/2009	0.07	0.57	7.95		3.05	2.97	0.00	0.000	0.000
3/31/2009	0.07	0.50	7.33		3.05	2.99	0.00	0.000	0.000
4/30/2009	0.07	0.47	7.00		3.05	3.00	0.00	0.000	0.000
5/31/2009	0.07	0.47	6.90		3.05	3.02	0.00	0.000	0.000
6/30/2009	0.06	0.52	8.21		3.06	3.03	0.00	0.000	0.000
7/31/2009	0.06	0.51	7.90		3.06	3.05	0.00	0.000	0.000
8/31/2009	0.07	0.53	7.86		3.06	3.07	0.00	0.000	0.000
9/30/2009	0.07	0.53	7.52		3.06	3.08	0.00	0.000	0.000
10/31/2009	0.07	0.47	6.90		3.06	3.10	0.00	0.000	0.000
11/30/2009	0.07	0.49	7.40		3.07	3.11	0.00	0.000	0.000
12/31/2009	0.02	0.15	7.50		3.07	3.12	0.00	0.000	0.000
7/31/2011	0.14	0.00	0.00		3.07	3.12	0.00	0.000	0.000
8/31/2011	0.00	14.61			3.07	3.57	0.00	0.000	0.000
9/30/2011	1.25	36.11	28.97		3.11	4.65	0.00	0.000	0.000
10/31/2011	1.87	45.25	24.22		3.17	6.05	0.00	0.000	0.000
11/30/2011	2.76	41.48	15.01		3.25	7.30	0.00	0.000	0.000
12/31/2011	3.64	43.07	11.84		3.36	8.63	0.00	0.000	0.000
1/31/2012	4.94	43.13	8.74		3.52	9.97	0.00	0.000	0.000
2/29/2012	4.64	41.08	8.84		3.65	11.16	0.00	0.000	0.000
3/31/2012	4.70	41.54	8.84		3.80	12.45	0.00	0.000	0.000
4/30/2012	4.88	42.85	8.78		3.94	13.74	0.00	0.000	0.000
5/31/2012	5.74	49.86	8.69		4.12	15.28	0.00	0.000	0.000
6/30/2012	5.00	44.10	8.83		4.27	16.60	0.00	0.000	0.000
7/31/2012	2.70	24.68	9.14		4.35	17.37	0.00	0.000	0.000
8/31/2012	4.96	51.00	10.28		4.51	18.95	0.00	0.000	0.000
9/30/2012	5.22	58.48	11.21		4.66	20.71	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
10/31/2012	5.14	58.42	11.38		4.82	22.52	0.00	0.000	0.000
11/30/2012	6.59	60.75	9.22		5.02	24.34	0.00	0.000	0.000
12/31/2012	7.70	64.63	8.39		5.26	26.34	0.00	0.000	0.000
1/31/2013	7.47	62.14	8.32		5.49	28.27	0.00	0.000	0.000
2/28/2013	7.96	60.46	7.59		5.71	29.96	0.00	0.000	0.000
3/31/2013	8.13	61.75	7.59		5.97	31.88	0.00	0.000	0.000
4/30/2013	6.57	56.78	8.65		6.16	33.58	0.00	0.000	0.000
5/31/2013	5.45	43.98	8.07		6.33	34.94	0.00	0.000	0.000
6/30/2013	5.93	47.92	8.08		6.51	36.38	0.00	0.000	0.000
7/31/2013	5.98	48.40	8.09		6.70	37.88	0.00	0.000	0.000
8/31/2013	8.05	52.11	6.47		6.95	39.50	0.00	0.000	0.000
9/30/2013	6.71	50.34	7.50		7.15	41.01	0.00	0.000	0.000
10/31/2013	5.14	38.49	7.48		7.31	42.20	0.00	0.000	0.000
11/30/2013	4.69	37.72	8.04		7.45	43.33	0.00	0.000	0.000
12/31/2013	4.12	35.75	8.69		7.57	44.44	0.00	0.000	0.000
1/31/2014	5.04	33.55	6.66		7.73	45.48	0.00	0.000	0.000
2/28/2014	5.01	33.50	6.68		7.87	46.42	0.00	0.000	0.000
3/31/2014	4.90	33.49	6.84		8.02	47.45	0.00	0.000	0.000
4/30/2014	4.09	24.14	5.90		8.15	48.18	0.00	0.000	0.000
5/31/2014	3.62	16.59	4.59		8.26	48.69	0.00	0.000	0.000
6/30/2014	3.65	58.56	16.05		8.37	50.45	0.00	0.000	0.000
7/31/2014	3.11	57.98	18.65		8.46	52.25	0.00	0.000	0.000
8/31/2014	2.41	42.13	17.47		8.54	53.55	0.00	0.000	0.000
9/30/2014	1.76	43.31	24.58		8.59	54.85	0.00	0.000	0.000
10/31/2014	2.28	56.64	24.82		8.66	56.61	0.00	0.000	0.000
11/30/2014	1.71	25.00	14.66		8.71	57.36	0.00	0.000	0.000
12/31/2014	1.73	36.80	21.30		8.77	58.50	0.00	0.000	0.000

Oil Formation Vol Factor : 0.80  
 Water Formation Vol Factor : 1.00150 m3/m3  
 Water / Oil Ratio : 7.26 m3/m3  
 Pattern : 00/09-29-010-28  
 Inj Set: Daly Unit#8BKKN  
 May 25, 2015  
 Operator: Tundra\_O&G\_Prtshp  
 Oil Rate (CD) : 3.39 m3/d  
 Water Rate (CD) : 24.64 m3/d  
 Water Inj Rate (CD) : \* 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
2/28/1986	0.10	0.03	0.32		0.00	0.00	0.00	0.000	0.000
3/31/1986	2.32	1.51	0.65		0.07	0.05	0.00	0.000	0.000
5/31/1986	0.38	0.13	0.34		0.09	0.05	0.00	0.000	0.000
6/30/1986	6.62	1.51	0.23		0.29	0.10	0.00	0.000	0.000
7/31/1986	5.66	1.96	0.35		0.46	0.16	0.00	0.000	0.000
8/31/1986	4.97	1.55	0.31		0.61	0.21	0.00	0.000	0.000
9/30/1986	4.41	1.46	0.33		0.75	0.25	0.00	0.000	0.000
10/31/1986	4.30	1.12	0.26		0.88	0.28	0.00	0.000	0.000
11/30/1986	4.17	0.74	0.18		1.01	0.31	0.00	0.000	0.000
12/31/1986	3.92	0.78	0.20		1.13	0.33	0.00	0.000	0.000
1/31/1987	3.64	0.86	0.24		1.24	0.36	0.00	0.000	0.000
2/28/1987	3.29	0.66	0.20		1.33	0.38	0.00	0.000	0.000
3/31/1987	3.33	0.70	0.21		1.44	0.40	0.00	0.000	0.000
4/30/1987	3.18	1.00	0.32		1.53	0.43	0.00	0.000	0.000
5/31/1987	2.69	0.98	0.37		1.61	0.46	0.00	0.000	0.000
6/30/1987	2.62	1.01	0.39		1.69	0.49	0.00	0.000	0.000
7/31/1987	3.22	1.99	0.62		1.79	0.55	0.00	0.000	0.000
8/31/1987	3.72	2.28	0.61		1.91	0.62	0.00	0.000	0.000
9/30/1987	3.05	1.73	0.57		2.00	0.67	0.00	0.000	0.000
10/31/1987	3.21	1.42	0.44		2.10	0.72	0.00	0.000	0.000
11/30/1987	2.53	1.41	0.56		2.17	0.76	0.00	0.000	0.000
12/31/1987	2.57	1.35	0.52		2.25	0.80	0.00	0.000	0.000
1/31/1988	2.17	1.46	0.67		2.32	0.85	0.00	0.000	0.000
2/29/1988	1.40	0.72	0.52		2.36	0.87	0.00	0.000	0.000
3/31/1988	2.13	1.15	0.54		2.43	0.90	0.00	0.000	0.000
4/30/1988	2.41	1.42	0.59		2.50	0.95	0.00	0.000	0.000
5/31/1988	1.84	1.12	0.61		2.56	0.98	0.00	0.000	0.000
6/30/1988	1.72	1.54	0.90		2.61	1.03	0.00	0.000	0.000
7/31/1988	1.43	1.35	0.94		2.65	1.07	0.00	0.000	0.000
8/31/1988	1.19	1.39	1.17		2.69	1.11	0.00	0.000	0.000
9/30/1988	1.05	0.86	0.82		2.72	1.14	0.00	0.000	0.000
10/31/1988	0.67	0.45	0.67		2.74	1.15	0.00	0.000	0.000
11/30/1988	0.93	0.56	0.60		2.77	1.17	0.00	0.000	0.000
12/31/1988	0.97	0.55	0.57		2.80	1.18	0.00	0.000	0.000
1/31/1989	0.94	0.45	0.48		2.83	1.20	0.00	0.000	0.000
2/28/1989	0.84	0.37	0.44		2.85	1.21	0.00	0.000	0.000
3/31/1989	0.73	0.47	0.65		2.88	1.22	0.00	0.000	0.000
4/30/1989	0.93	0.39	0.42		2.90	1.24	0.00	0.000	0.000
5/31/1989	2.50	0.97	0.39		2.98	1.27	0.00	0.000	0.000
6/30/1989	2.76	0.79	0.29		3.06	1.29	0.00	0.000	0.000
7/31/1989	2.12	1.33	0.63		3.13	1.33	0.00	0.000	0.000
8/31/1989	2.15	0.67	0.31		3.20	1.35	0.00	0.000	0.000
9/30/1989	1.97	0.69	0.35		3.25	1.37	0.00	0.000	0.000
10/31/1989	3.34	2.26	0.68		3.36	1.44	0.00	0.000	0.000
11/30/1989	2.91	1.87	0.64		3.45	1.50	0.00	0.000	0.000
12/31/1989	2.18	1.39	0.64		3.51	1.54	0.00	0.000	0.000
1/31/1990	2.63	1.86	0.71		3.60	1.60	0.00	0.000	0.000
2/28/1990	2.26	1.62	0.72		3.66	1.64	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
3/31/1990	5.44	4.13	0.76		3.83	1.77	0.00	0.000	0.000
4/30/1990	4.05	2.75	0.68		3.95	1.85	0.00	0.000	0.000
5/31/1990	3.84	1.83	0.48		4.07	1.91	0.00	0.000	0.000
6/30/1990	2.22	0.60	0.27		4.13	1.93	0.00	0.000	0.000
7/31/1990	2.15	0.57	0.27		4.20	1.95	0.00	0.000	0.000
8/31/1990	4.12	1.35	0.33		4.33	1.99	0.00	0.000	0.000
9/30/1990	3.66	1.17	0.32		4.44	2.02	0.00	0.000	0.000
10/31/1990	4.08	1.22	0.30		4.56	2.06	0.00	0.000	0.000
11/30/1990	4.55	0.99	0.22		4.70	2.09	0.00	0.000	0.000
12/31/1990	4.53	0.94	0.21		4.84	2.12	0.00	0.000	0.000
1/31/1991	4.67	0.98	0.21		4.99	2.15	0.00	0.000	0.000
2/28/1991	4.60	0.98	0.21		5.12	2.18	0.00	0.000	0.000
3/31/1991	3.67	0.90	0.24		5.23	2.21	0.00	0.000	0.000
4/30/1991	3.23	0.80	0.25		5.33	2.23	0.00	0.000	0.000
5/31/1991	4.53	0.61	0.13		5.47	2.25	0.00	0.000	0.000
6/30/1991	4.50	0.71	0.16		5.60	2.27	0.00	0.000	0.000
7/31/1991	4.48	0.78	0.17		5.74	2.29	0.00	0.000	0.000
8/31/1991	3.04	0.80	0.26		5.83	2.32	0.00	0.000	0.000
9/30/1991	2.78	0.81	0.29		5.92	2.34	0.00	0.000	0.000
10/31/1991	2.81	0.78	0.28		6.00	2.37	0.00	0.000	0.000
11/30/1991	2.78	0.78	0.28		6.09	2.39	0.00	0.000	0.000
12/31/1991	2.80	0.78	0.28		6.17	2.42	0.00	0.000	0.000
1/31/1992	2.69	0.78	0.29		6.26	2.44	0.00	0.000	0.000
2/29/1992	2.74	0.67	0.24		6.34	2.46	0.00	0.000	0.000
3/31/1992	3.00	0.65	0.22		6.43	2.48	0.00	0.000	0.000
4/30/1992	2.77	1.01	0.36		6.51	2.51	0.00	0.000	0.000
5/31/1992	3.36	0.92	0.27		6.62	2.54	0.00	0.000	0.000
6/30/1992	2.84	1.09	0.38		6.70	2.57	0.00	0.000	0.000
7/31/1992	2.61	1.10	0.42		6.78	2.61	0.00	0.000	0.000
8/31/1992	2.55	0.78	0.30		6.86	2.63	0.00	0.000	0.000
9/30/1992	2.35	0.91	0.39		6.93	2.66	0.00	0.000	0.000
10/31/1992	2.67	0.49	0.18		7.02	2.67	0.00	0.000	0.000
11/30/1992	2.53	0.50	0.20		7.09	2.69	0.00	0.000	0.000
12/31/1992	2.47	0.56	0.23		7.17	2.70	0.00	0.000	0.000
1/31/1993	2.29	0.60	0.26		7.24	2.72	0.00	0.000	0.000
2/28/1993	2.53	0.63	0.25		7.31	2.74	0.00	0.000	0.000
3/31/1993	2.08	0.87	0.42		7.38	2.77	0.00	0.000	0.000
4/30/1993	1.94	0.91	0.47		7.43	2.79	0.00	0.000	0.000
5/31/1993	2.22	0.88	0.40		7.50	2.82	0.00	0.000	0.000
6/30/1993	2.06	0.94	0.46		7.56	2.85	0.00	0.000	0.000
7/31/1993	1.81	0.55	0.30		7.62	2.87	0.00	0.000	0.000
8/31/1993	1.72	0.48	0.28		7.67	2.88	0.00	0.000	0.000
9/30/1993	1.98	0.52	0.26		7.73	2.90	0.00	0.000	0.000
10/31/1993	2.05	0.60	0.29		7.80	2.92	0.00	0.000	0.000
11/30/1993	2.31	0.80	0.34		7.87	2.94	0.00	0.000	0.000
12/31/1993	2.11	0.89	0.42		7.93	2.97	0.00	0.000	0.000
1/31/1994	2.06	0.91	0.44		8.00	3.00	0.00	0.000	0.000
2/28/1994	2.10	0.77	0.37		8.05	3.02	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
3/31/1994	2.05	0.32	0.15		8.12	3.03	0.00	0.000	0.000
4/30/1994	2.06	0.27	0.13		8.18	3.04	0.00	0.000	0.000
5/31/1994	1.66	0.32	0.19		8.23	3.05	0.00	0.000	0.000
6/30/1994	1.57	0.37	0.23		8.28	3.06	0.00	0.000	0.000
7/31/1994	1.57	0.27	0.17		8.33	3.06	0.00	0.000	0.000
8/31/1994	1.16	0.25	0.21		8.36	3.07	0.00	0.000	0.000
9/30/1994	1.07	0.32	0.30		8.40	3.08	0.00	0.000	0.000
10/31/1994	0.62	1.08	1.75		8.41	3.12	0.00	0.000	0.000
11/30/1994	0.54	1.35	2.49		8.43	3.16	0.00	0.000	0.000
12/31/1994	0.54	1.40	2.58		8.45	3.20	0.00	0.000	0.000
1/31/1995	0.54	1.29	2.40		8.46	3.24	0.00	0.000	0.000
2/28/1995	0.61	1.45	2.36		8.48	3.28	0.00	0.000	0.000
3/31/1995	0.65	1.42	2.19		8.50	3.32	0.00	0.000	0.000
4/30/1995	0.53	1.39	2.62		8.52	3.37	0.00	0.000	0.000
5/31/1995	0.35	2.31	6.51		8.53	3.44	0.00	0.000	0.000
6/30/1995	0.59	4.15	7.04		8.55	3.56	0.00	0.000	0.000
7/31/1995	0.57	4.01	7.02		8.56	3.69	0.00	0.000	0.000
8/31/1995	0.58	3.88	6.68		8.58	3.81	0.00	0.000	0.000
9/30/1995	0.60	3.67	6.12		8.60	3.92	0.00	0.000	0.000
10/31/1995	2.90	5.26	1.82		8.69	4.08	0.00	0.000	0.000
11/30/1995	2.29	3.41	1.49		8.76	4.18	0.00	0.000	0.000
12/31/1995	1.59	1.65	1.03		8.81	4.23	0.00	0.000	0.000
1/31/1996	0.81	1.13	1.39		8.83	4.27	0.00	0.000	0.000
2/29/1996	0.86	1.10	1.28		8.86	4.30	0.00	0.000	0.000
3/31/1996	0.83	1.15	1.39		8.88	4.33	0.00	0.000	0.000
4/30/1996	0.80	1.08	1.35		8.91	4.37	0.00	0.000	0.000
5/31/1996	0.84	1.06	1.26		8.93	4.40	0.00	0.000	0.000
6/30/1996	0.85	1.08	1.27		8.96	4.43	0.00	0.000	0.000
7/31/1996	0.72	0.93	1.30		8.98	4.46	0.00	0.000	0.000
8/31/1996	0.55	1.04	1.89		9.00	4.49	0.00	0.000	0.000
9/30/1996	0.54	1.03	1.90		9.02	4.52	0.00	0.000	0.000
10/31/1996	0.49	1.26	2.55		9.03	4.56	0.00	0.000	0.000
11/30/1996	0.61	0.09	0.15		9.05	4.57	0.00	0.000	0.000
12/31/1996	0.55	0.09	0.16		9.07	4.57	0.00	0.000	0.000
1/31/1997	0.66	0.08	0.12		9.09	4.57	0.00	0.000	0.000
2/28/1997	0.58	0.07	0.13		9.10	4.57	0.00	0.000	0.000
3/31/1997	0.54	0.38	0.71		9.12	4.59	0.00	0.000	0.000
4/30/1997	0.34	0.79	2.31		9.13	4.61	0.00	0.000	0.000
5/31/1997	0.27	1.02	3.82		9.14	4.64	0.00	0.000	0.000
6/30/1997	0.45	0.25	0.57		9.15	4.65	0.00	0.000	0.000
7/31/1997	0.43	0.16	0.38		9.16	4.65	0.00	0.000	0.000
8/31/1997	0.38	0.47	1.22		9.18	4.67	0.00	0.000	0.000
9/30/1997	0.42	0.46	1.09		9.19	4.68	0.00	0.000	0.000
10/31/1997	0.37	0.40	1.08		9.20	4.69	0.00	0.000	0.000
11/30/1997	0.38	0.41	1.08		9.21	4.71	0.00	0.000	0.000
12/31/1997	0.30	0.51	1.69		9.22	4.72	0.00	0.000	0.000
1/31/1998	0.26	0.68	2.63		9.23	4.74	0.00	0.000	0.000
2/28/1998	0.33	0.66	2.02		9.24	4.76	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
3/31/1998	0.28	0.58	2.06		9.25	4.78	0.00	0.000	0.000
4/30/1998	0.27	0.50	1.85		9.26	4.79	0.00	0.000	0.000
5/31/1998	0.25	0.62	2.49		9.26	4.81	0.00	0.000	0.000
6/30/1998	0.27	0.34	1.26		9.27	4.82	0.00	0.000	0.000
7/31/1998	0.28	0.12	0.43		9.28	4.83	0.00	0.000	0.000
8/31/1998	0.31	0.13	0.43		9.29	4.83	0.00	0.000	0.000
9/30/1998	0.30	0.09	0.31		9.30	4.83	0.00	0.000	0.000
10/31/1998	0.27	0.04	0.13		9.31	4.84	0.00	0.000	0.000
11/30/1998	0.38	0.03	0.09		9.32	4.84	0.00	0.000	0.000
12/31/1998	0.38	0.04	0.11		9.33	4.84	0.00	0.000	0.000
1/31/1999	0.37	0.05	0.14		9.34	4.84	0.00	0.000	0.000
2/28/1999	0.37	0.05	0.14		9.35	4.84	0.00	0.000	0.000
3/31/1999	0.38	0.06	0.15		9.36	4.84	0.00	0.000	0.000
4/30/1999	0.37	0.06	0.15		9.37	4.84	0.00	0.000	0.000
5/31/1999	0.38	0.05	0.14		9.39	4.85	0.00	0.000	0.000
6/30/1999	0.37	0.06	0.17		9.40	4.85	0.00	0.000	0.000
7/31/1999	0.38	0.07	0.19		9.41	4.85	0.00	0.000	0.000
8/31/1999	0.39	0.07	0.18		9.42	4.85	0.00	0.000	0.000
9/30/1999	0.40	0.06	0.14		9.43	4.85	0.00	0.000	0.000
10/31/1999	0.47	0.33	0.71		9.45	4.86	0.00	0.000	0.000
11/30/1999	0.47	0.39	0.82		9.46	4.88	0.00	0.000	0.000
12/31/1999	0.47	0.28	0.60		9.48	4.88	0.00	0.000	0.000
1/31/2000	0.45	0.35	0.78		9.49	4.90	0.00	0.000	0.000
2/29/2000	0.47	0.35	0.75		9.50	4.91	0.00	0.000	0.000
3/31/2000	0.48	0.24	0.49		9.52	4.91	0.00	0.000	0.000
4/30/2000	0.47	0.14	0.30		9.53	4.92	0.00	0.000	0.000
5/31/2000	0.45	0.14	0.31		9.55	4.92	0.00	0.000	0.000
6/30/2000	0.41	0.18	0.44		9.56	4.93	0.00	0.000	0.000
7/31/2000	0.40	0.24	0.59		9.57	4.93	0.00	0.000	0.000
8/31/2000	1.22	1.28	1.04		9.61	4.97	0.00	0.000	0.000
9/30/2000	0.36	0.19	0.52		9.62	4.98	0.00	0.000	0.000
10/31/2000	0.35	0.22	0.61		9.63	4.99	0.00	0.000	0.000
11/30/2000	0.34	0.22	0.64		9.64	4.99	0.00	0.000	0.000
12/31/2000	0.23	0.13	0.54		9.65	5.00	0.00	0.000	0.000
1/31/2001	0.26	0.20	0.78		9.66	5.00	0.00	0.000	0.000
2/28/2001	0.27	0.21	0.77		9.66	5.01	0.00	0.000	0.000
3/31/2001	0.27	0.21	0.78		9.67	5.02	0.00	0.000	0.000
4/30/2001	0.28	0.20	0.70		9.68	5.02	0.00	0.000	0.000
5/31/2001	0.31	0.20	0.66		9.69	5.03	0.00	0.000	0.000
6/30/2001	0.29	0.21	0.72		9.70	5.03	0.00	0.000	0.000
7/31/2001	0.36	0.27	0.73		9.71	5.04	0.00	0.000	0.000
8/31/2001	0.40	0.27	0.67		9.72	5.05	0.00	0.000	0.000
9/30/2001	0.36	0.24	0.67		9.73	5.06	0.00	0.000	0.000
10/31/2001	0.38	0.29	0.76		9.75	5.07	0.00	0.000	0.000
11/30/2001	0.34	0.34	0.98		9.76	5.08	0.00	0.000	0.000
12/31/2001	0.36	0.40	1.11		9.77	5.09	0.00	0.000	0.000
1/31/2002	0.37	0.45	1.22		9.78	5.10	0.00	0.000	0.000
2/28/2002	0.38	0.45	1.20		9.79	5.12	0.00	0.000	0.000



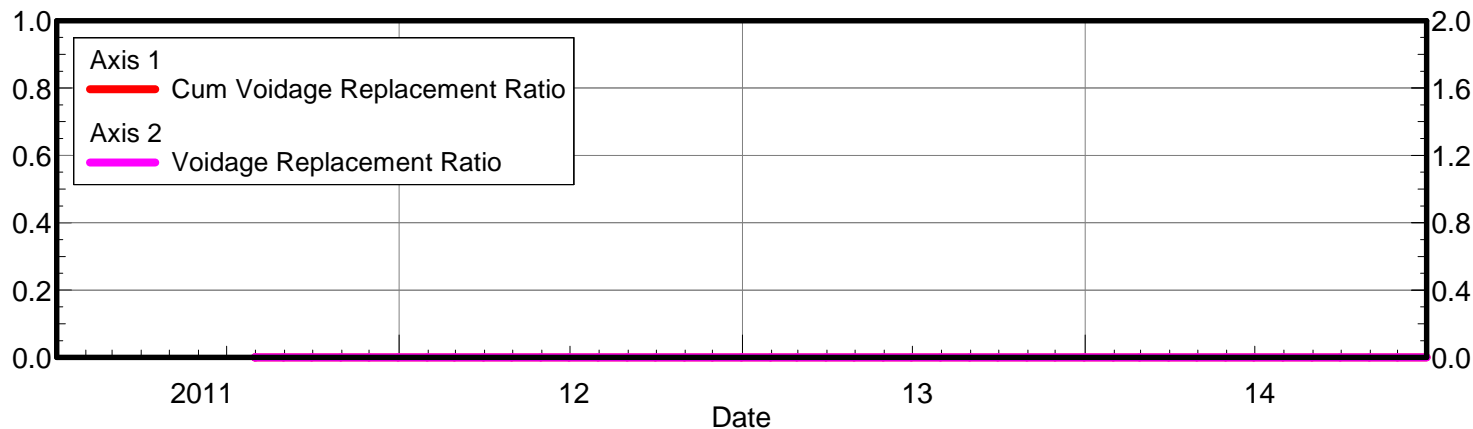
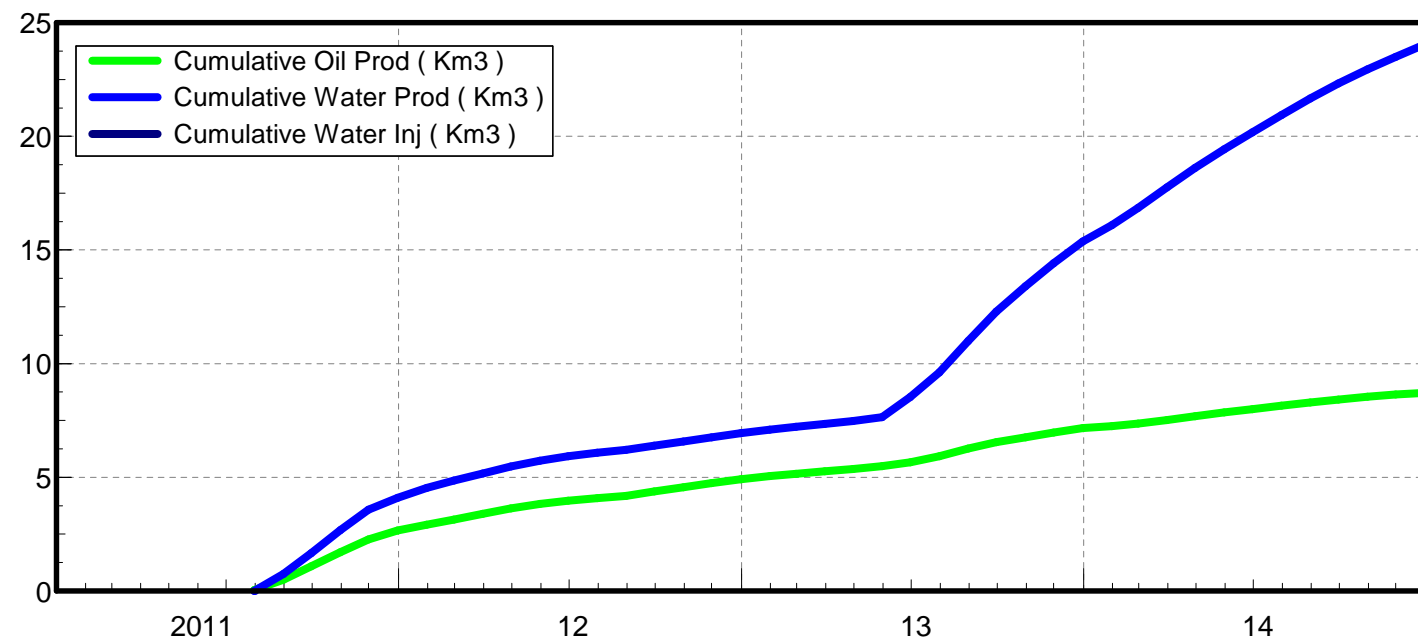
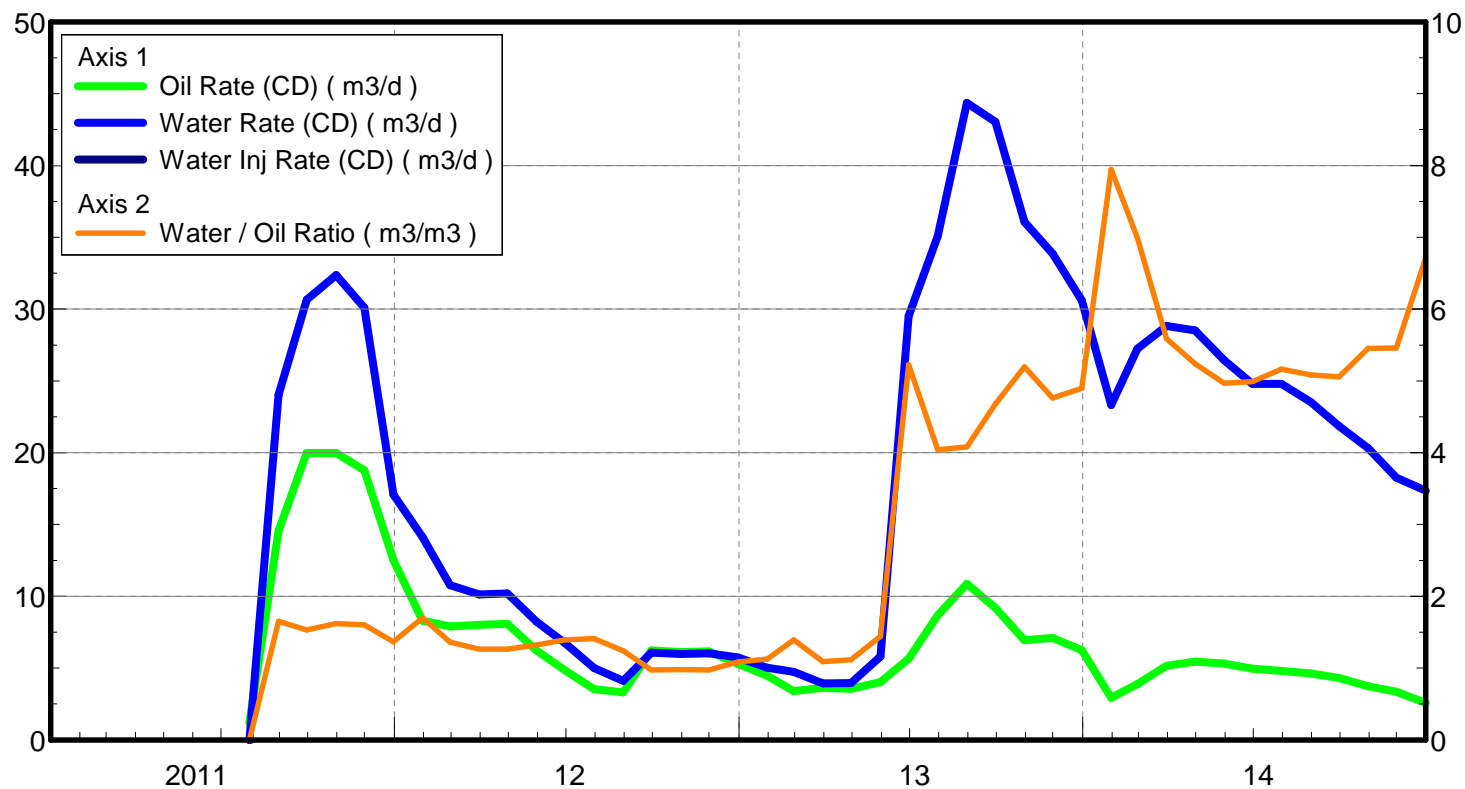
Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
3/31/2002	0.36	0.45	1.25		9.80	5.13	0.00	0.000	0.000
4/30/2002	0.35	0.41	1.18		9.81	5.14	0.00	0.000	0.000
5/31/2002	0.35	0.38	1.08		9.82	5.15	0.00	0.000	0.000
6/30/2002	0.37	0.38	1.01		9.83	5.17	0.00	0.000	0.000
7/31/2002	0.39	0.41	1.03		9.85	5.18	0.00	0.000	0.000
8/31/2002	0.38	0.39	1.03		9.86	5.19	0.00	0.000	0.000
9/30/2002	0.37	0.34	0.91		9.87	5.20	0.00	0.000	0.000
10/31/2002	0.35	0.34	0.98		9.88	5.21	0.00	0.000	0.000
11/30/2002	0.27	0.29	1.09		9.89	5.22	0.00	0.000	0.000
12/31/2002	0.21	0.18	0.85		9.89	5.23	0.00	0.000	0.000
1/31/2003	0.21	0.35	1.65		9.90	5.24	0.00	0.000	0.000
2/28/2003	0.23	0.36	1.60		9.91	5.25	0.00	0.000	0.000
3/31/2003	0.23	0.35	1.55		9.91	5.26	0.00	0.000	0.000
4/30/2003	0.23	0.35	1.54		9.92	5.27	0.00	0.000	0.000
5/31/2003	0.22	0.34	1.54		9.93	5.28	0.00	0.000	0.000
6/30/2003	0.21	0.32	1.48		9.93	5.29	0.00	0.000	0.000
7/31/2003	0.22	0.34	1.57		9.94	5.30	0.00	0.000	0.000
8/31/2003	0.21	0.34	1.59		9.95	5.31	0.00	0.000	0.000
9/30/2003	0.22	0.34	1.51		9.95	5.32	0.00	0.000	0.000
10/31/2003	0.22	0.32	1.43		9.96	5.33	0.00	0.000	0.000
11/30/2003	0.23	0.33	1.44		9.97	5.34	0.00	0.000	0.000
12/31/2003	0.22	0.33	1.52		9.97	5.35	0.00	0.000	0.000
1/31/2004	0.20	0.35	1.70		9.98	5.36	0.00	0.000	0.000
2/29/2004	0.22	0.37	1.66		9.99	5.37	0.00	0.000	0.000
3/31/2004	0.21	0.36	1.68		9.99	5.38	0.00	0.000	0.000
4/30/2004	0.14	0.33	2.38		10.00	5.39	0.00	0.000	0.000
5/31/2004	0.14	0.30	2.19		10.00	5.40	0.00	0.000	0.000
6/30/2004	0.15	0.30	2.02		10.01	5.41	0.00	0.000	0.000
7/31/2004	0.15	0.30	2.00		10.01	5.42	0.00	0.000	0.000
8/31/2004	0.15	0.30	2.00		10.02	5.43	0.00	0.000	0.000
9/30/2004	0.15	0.33	2.25		10.02	5.44	0.00	0.000	0.000
10/31/2004	0.15	0.33	2.29		10.02	5.45	0.00	0.000	0.000
11/30/2004	0.15	0.34	2.34		10.03	5.46	0.00	0.000	0.000
12/31/2004	0.17	0.33	1.94		10.03	5.47	0.00	0.000	0.000
1/31/2005	0.16	0.34	2.12		10.04	5.48	0.00	0.000	0.000
2/28/2005	0.16	0.29	1.86		10.04	5.49	0.00	0.000	0.000
3/31/2005	0.16	0.53	3.30		10.05	5.50	0.00	0.000	0.000
4/30/2005	0.16	0.31	1.90		10.05	5.51	0.00	0.000	0.000
5/31/2005	0.16	0.32	2.00		10.06	5.52	0.00	0.000	0.000
6/30/2005	0.16	0.31	1.92		10.06	5.53	0.00	0.000	0.000
7/31/2005	0.17	0.30	1.79		10.07	5.54	0.00	0.000	0.000
8/31/2005	0.16	0.29	1.76		10.07	5.55	0.00	0.000	0.000
9/30/2005	0.16	0.30	1.84		10.08	5.56	0.00	0.000	0.000
10/31/2005	0.16	0.30	1.88		10.08	5.57	0.00	0.000	0.000
11/30/2005	0.16	0.30	1.86		10.09	5.58	0.00	0.000	0.000
12/31/2005	0.16	0.30	1.90		10.09	5.59	0.00	0.000	0.000
1/31/2006	0.17	0.30	1.77		10.10	5.60	0.00	0.000	0.000
2/28/2006	0.17	0.28	1.60		10.10	5.60	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 Replacemnt Ratio
3/31/2006	0.16	0.27	1.65		10.11	5.61	0.00	0.000	0.000
4/30/2006	0.17	0.28	1.66		10.11	5.62	0.00	0.000	0.000
5/31/2006	0.07	0.25	3.30		10.12	5.63	0.00	0.000	0.000
6/30/2006	0.09	0.28	3.27		10.12	5.64	0.00	0.000	0.000
7/31/2006	0.09	0.29	3.30		10.12	5.65	0.00	0.000	0.000
8/31/2006	0.09	0.29	3.37		10.12	5.66	0.00	0.000	0.000
9/30/2006	0.07	0.28	4.25		10.13	5.66	0.00	0.000	0.000
10/31/2006	0.09	0.29	3.21		10.13	5.67	0.00	0.000	0.000
11/30/2006	0.10	0.29	3.03		10.13	5.68	0.00	0.000	0.000
12/31/2006	0.07	0.27	3.70		10.13	5.69	0.00	0.000	0.000
1/31/2007	0.07	0.28	3.83		10.14	5.70	0.00	0.000	0.000
2/28/2007	0.08	0.03	0.41		10.14	5.70	0.00	0.000	0.000
3/31/2007	0.08	0.03	0.35		10.14	5.70	0.00	0.000	0.000
4/30/2007	0.09	0.28	3.23		10.14	5.71	0.00	0.000	0.000
5/31/2007	0.09	0.29	3.18		10.15	5.72	0.00	0.000	0.000
6/30/2007	0.10	0.28	2.86		10.15	5.73	0.00	0.000	0.000
7/31/2007	0.10	0.29	2.87		10.15	5.74	0.00	0.000	0.000
8/31/2007	0.10	0.35	3.57		10.16	5.75	0.00	0.000	0.000
9/30/2007	0.09	0.41	4.59		10.16	5.76	0.00	0.000	0.000
10/31/2007	0.06	0.34	5.25		10.16	5.77	0.00	0.000	0.000
11/30/2007	0.07	0.17	2.55		10.16	5.77	0.00	0.000	0.000
12/31/2007	0.06	0.03	0.45		10.16	5.78	0.00	0.000	0.000
1/31/2008	0.07	0.53	7.76		10.17	5.79	0.00	0.000	0.000
2/29/2008	0.07	0.71	10.35		10.17	5.81	0.00	0.000	0.000
3/31/2008	0.06	0.70	10.85		10.17	5.83	0.00	0.000	0.000
4/30/2008	0.07	0.66	9.85		10.17	5.85	0.00	0.000	0.000
5/31/2008	0.07	0.67	9.90		10.17	5.87	0.00	0.000	0.000
6/30/2008	0.06	0.72	11.32		10.18	5.90	0.00	0.000	0.000
7/31/2008	0.07	0.71	10.48		10.18	5.92	0.00	0.000	0.000
8/31/2008	0.07	0.68	9.55		10.18	5.94	0.00	0.000	0.000
9/30/2008	0.06	0.66	10.42		10.18	5.96	0.00	0.000	0.000
10/31/2008	0.07	0.67	9.90		10.18	5.98	0.00	0.000	0.000
11/30/2008	0.07	0.61	9.10		10.19	6.00	0.00	0.000	0.000
12/31/2008	0.07	0.59	8.27		10.19	6.02	0.00	0.000	0.000
1/31/2009	0.07	0.61	8.59		10.19	6.03	0.00	0.000	0.000
2/28/2009	0.07	0.57	8.47		10.19	6.05	0.00	0.000	0.000
3/31/2009	0.13	0.56	4.38		10.20	6.07	0.00	0.000	0.000
4/30/2009	0.13	0.60	4.74		10.20	6.09	0.00	0.000	0.000
5/31/2009	0.13	0.59	4.72		10.20	6.10	0.00	0.000	0.000
6/30/2009	0.12	0.66	5.69		10.21	6.12	0.00	0.000	0.000
7/31/2009	0.13	0.90	6.95		10.21	6.15	0.00	0.000	0.000
8/31/2009	0.15	0.72	4.93		10.22	6.17	0.00	0.000	0.000
9/30/2009	0.14	0.72	5.00		10.22	6.20	0.00	0.000	0.000
10/31/2009	0.13	0.69	5.22		10.22	6.22	0.00	0.000	0.000
11/30/2009	0.12	0.63	5.22		10.23	6.24	0.00	0.000	0.000
12/31/2009	0.13	0.55	4.20		10.23	6.25	0.00	0.000	0.000
1/31/2010	0.13	0.56	4.33		10.24	6.27	0.00	0.000	0.000
2/28/2010	0.13	0.53	4.23		10.24	6.29	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
3/31/2010	0.15	0.48	3.17		10.24	6.30	0.00	0.000	0.000
4/30/2010	0.15	0.44	2.91		10.25	6.31	0.00	0.000	0.000
5/31/2010	0.09	0.04	0.48		10.25	6.32	0.00	0.000	0.000
6/30/2010	0.07	0.06	0.95		10.25	6.32	0.00	0.000	0.000
7/31/2010	0.08	0.07	0.88		10.26	6.32	0.00	0.000	0.000
8/31/2010	0.08	0.45	5.88		10.26	6.33	0.00	0.000	0.000
9/30/2010	0.13	0.47	3.68		10.26	6.35	0.00	0.000	0.000
10/31/2010	0.13	0.45	3.37		10.27	6.36	0.00	0.000	0.000
11/30/2010	0.14	0.43	3.17		10.27	6.37	0.00	0.000	0.000
12/31/2010	0.13	0.45	3.41		10.27	6.39	0.00	0.000	0.000
1/31/2011	0.12	0.44	3.70		10.28	6.40	0.00	0.000	0.000
2/28/2011	0.12	0.45	3.71		10.28	6.41	0.00	0.000	0.000
3/31/2011	0.12	0.42	3.51		10.29	6.43	0.00	0.000	0.000
4/30/2011	0.29	0.39	1.33		10.29	6.44	0.00	0.000	0.000
5/31/2011	0.28	0.39	1.40		10.30	6.45	0.00	0.000	0.000
6/30/2011	0.17	0.23	1.31		10.31	6.46	0.00	0.000	0.000
7/31/2011	0.38	0.05	0.12		10.32	6.46	0.00	0.000	0.000
8/31/2011	8.13	39.20	4.82		10.57	7.67	0.00	0.000	0.000
9/30/2011	9.76	40.34	4.13		10.86	8.88	0.00	0.000	0.000
10/31/2011	9.05	51.21	5.66		11.15	10.47	0.00	0.000	0.000
11/30/2011	9.29	51.96	5.59		11.42	12.03	0.00	0.000	0.000
12/31/2011	9.81	51.75	5.28		11.73	13.64	0.00	0.000	0.000
1/31/2012	12.66	46.01	3.63		12.12	15.06	0.00	0.000	0.000
2/29/2012	9.29	37.42	4.03		12.39	16.15	0.00	0.000	0.000
3/31/2012	9.12	36.81	4.04		12.67	17.29	0.00	0.000	0.000
4/30/2012	8.70	34.96	4.02		12.93	18.34	0.00	0.000	0.000
5/31/2012	6.97	31.46	4.52		13.15	19.31	0.00	0.000	0.000
6/30/2012	6.03	28.67	4.75		13.33	20.17	0.00	0.000	0.000
7/31/2012	4.20	21.36	5.09		13.46	20.83	0.00	0.000	0.000
8/31/2012	4.65	25.39	5.46		13.61	21.62	0.00	0.000	0.000
9/30/2012	4.72	27.69	5.87		13.75	22.45	0.00	0.000	0.000
10/31/2012	3.44	21.43	6.24		13.85	23.12	0.00	0.000	0.000
11/30/2012	3.31	21.45	6.49		13.95	23.76	0.00	0.000	0.000
12/31/2012	2.50	14.12	5.64		14.03	24.20	0.00	0.000	0.000
1/31/2013	2.03	10.80	5.32		14.09	24.53	0.00	0.000	0.000
2/28/2013	1.44	6.92	4.81		14.13	24.73	0.00	0.000	0.000
3/31/2013	1.90	12.41	6.54		14.19	25.11	0.00	0.000	0.000
4/30/2013	1.95	19.94	10.23		14.25	25.71	0.00	0.000	0.000
5/31/2013	2.53	12.93	5.12		14.33	26.11	0.00	0.000	0.000
6/30/2013	4.06	24.42	6.02		14.45	26.84	0.00	0.000	0.000
7/31/2013	4.96	26.04	5.25		14.60	27.65	0.00	0.000	0.000
8/31/2013	7.82	32.21	4.12		14.85	28.65	0.00	0.000	0.000
9/30/2013	7.99	34.84	4.36		15.09	29.69	0.00	0.000	0.000
10/31/2013	6.50	29.05	4.47		15.29	30.59	0.00	0.000	0.000
11/30/2013	5.21	24.63	4.73		15.44	31.33	0.00	0.000	0.000
12/31/2013	3.86	24.67	6.39		15.56	32.10	0.00	0.000	0.000
1/31/2014	4.93	24.14	4.89		15.72	32.85	0.00	0.000	0.000
2/28/2014	5.17	23.63	4.57		15.86	33.51	0.00	0.000	0.000

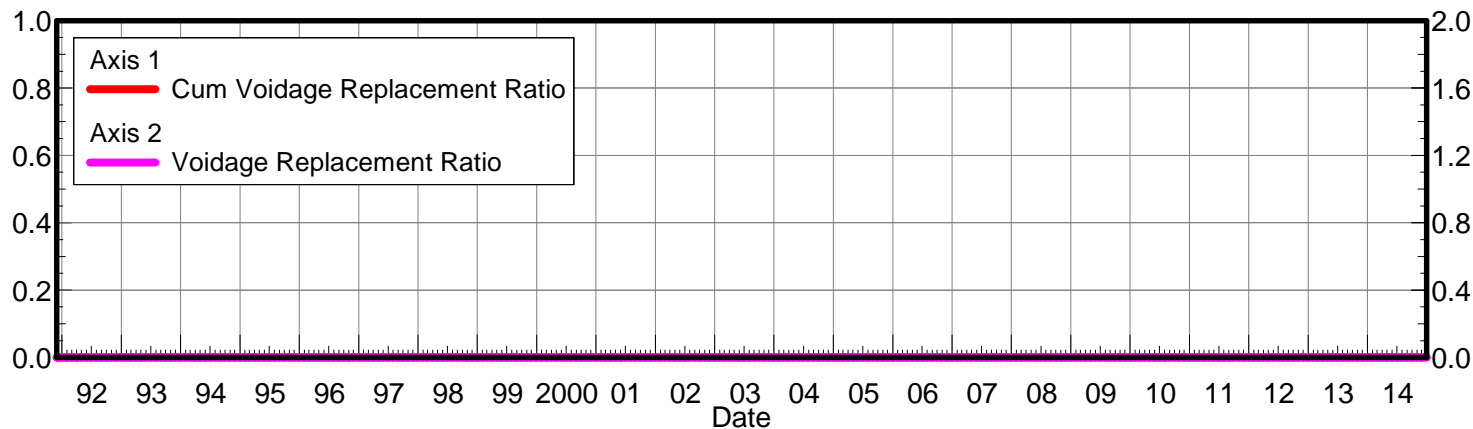
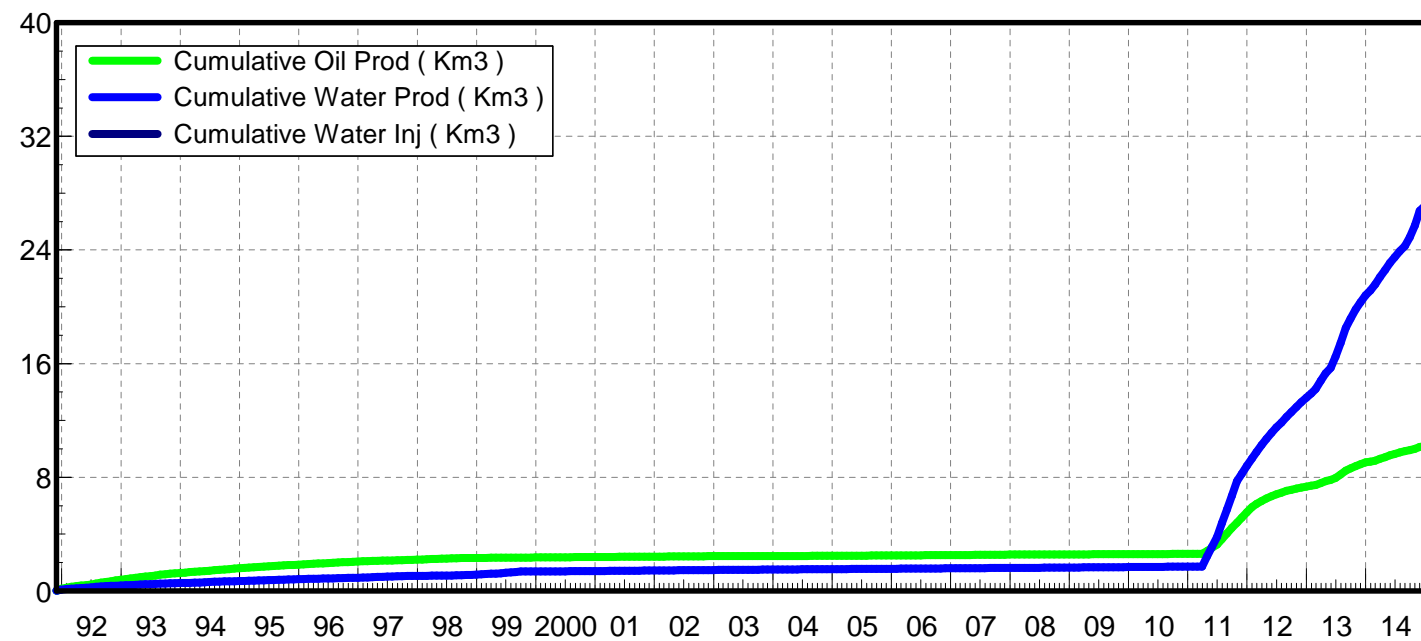
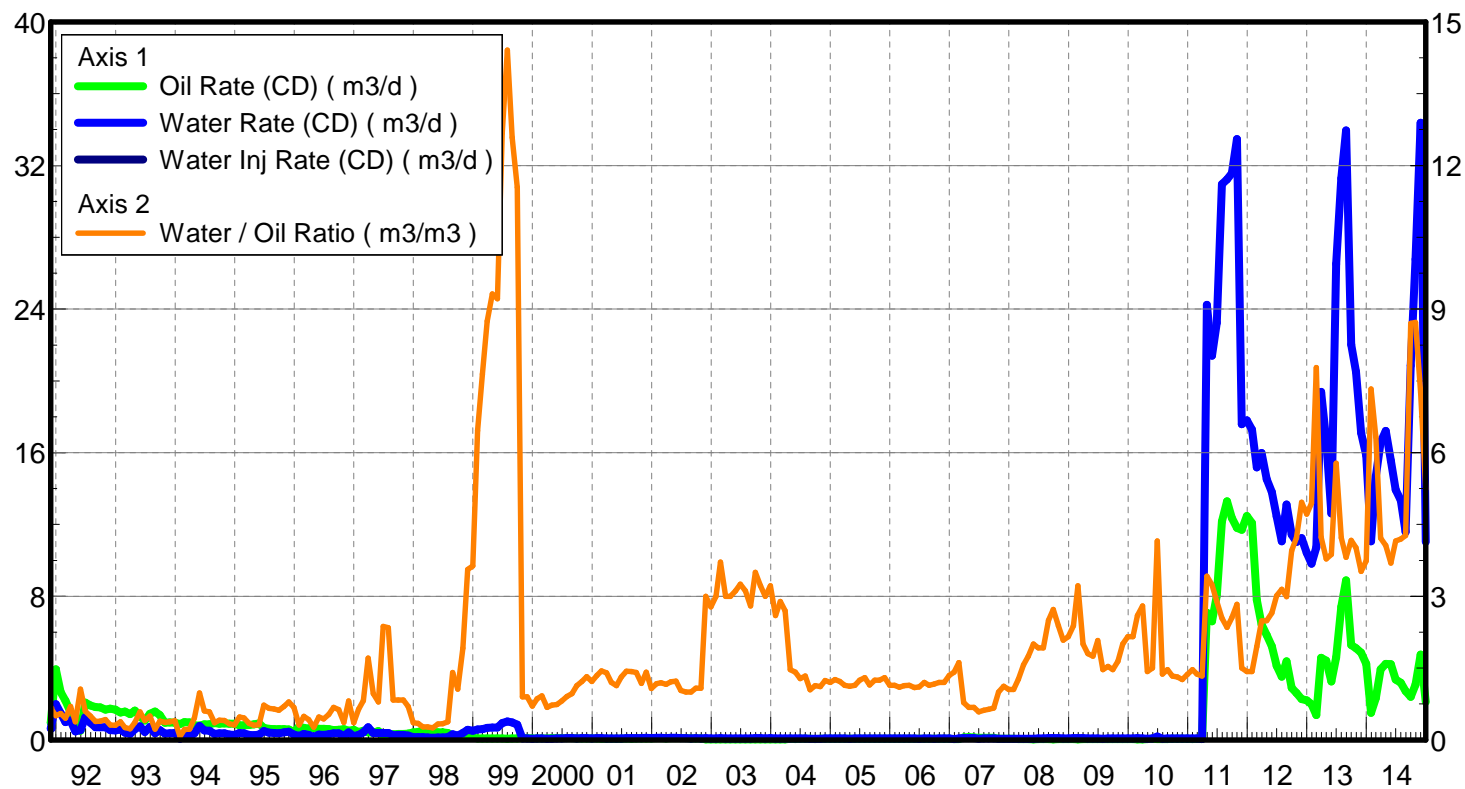
Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
3/31/2014	5.05	23.57	4.66		16.02	34.24	0.00	0.000	0.000
4/30/2014	4.38	21.27	4.86		16.15	34.88	0.00	0.000	0.000
5/31/2014	3.94	20.31	5.15		16.27	35.51	0.00	0.000	0.000
6/30/2014	3.53	18.11	5.13		16.38	36.05	0.00	0.000	0.000
7/31/2014	3.07	16.96	5.52		16.47	36.57	0.00	0.000	0.000
8/31/2014	3.33	19.29	5.80		16.58	37.17	0.00	0.000	0.000
9/30/2014	2.21	21.78	9.85		16.64	37.83	0.00	0.000	0.000
10/31/2014	3.96	35.70	9.01		16.77	38.93	0.00	0.000	0.000
11/30/2014	5.07	38.97	7.68		16.92	40.10	0.00	0.000	0.000
12/31/2014	3.39	24.64	7.26		17.02	40.87	0.00	0.000	0.000

Oil Formation Vol Factor : 1.00150 m3/m3  
 Water Formation Vol Factor : 1.00150 m3/m3  
 Water / Oil Ratio : 6.72 m3/m3  
 Pattern : 0016-29-010-28  
 Inj Set: DalyUnit#8BKKN  
 May 25, 2015  
 Operator: Tundra\_O&G\_Prtshp  
 Oil Rate (CD) : 2.58 m3/d  
 Water Rate (CD) : 17.34 m3/d  
 Water Inj Rate (CD) : \* 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
7/31/2011	1.19	0.00	0.00		0.04	0.00	0.00	0.000	0.000
8/31/2011	14.57	24.05	1.65		0.49	0.75	0.00	0.000	0.000
9/30/2011	19.99	30.65	1.53		1.09	1.66	0.00	0.000	0.000
10/31/2011	19.99	32.38	1.62		1.71	2.67	0.00	0.000	0.000
11/30/2011	18.78	30.11	1.60		2.27	3.57	0.00	0.000	0.000
12/31/2011	12.51	17.08	1.37		2.66	4.10	0.00	0.000	0.000
1/31/2012	8.31	14.12	1.70		2.92	4.54	0.00	0.000	0.000
2/29/2012	7.90	10.77	1.36		3.15	4.85	0.00	0.000	0.000
3/31/2012	8.01	10.14	1.27		3.39	5.17	0.00	0.000	0.000
4/30/2012	8.07	10.20	1.26		3.64	5.47	0.00	0.000	0.000
5/31/2012	6.24	8.25	1.32		3.83	5.73	0.00	0.000	0.000
6/30/2012	4.85	6.75	1.39		3.97	5.93	0.00	0.000	0.000
7/31/2012	3.54	5.00	1.41		4.08	6.08	0.00	0.000	0.000
8/31/2012	3.32	4.12	1.24		4.19	6.21	0.00	0.000	0.000
9/30/2012	6.22	6.07	0.98		4.37	6.39	0.00	0.000	0.000
10/31/2012	6.11	5.99	0.98		4.56	6.58	0.00	0.000	0.000
11/30/2012	6.17	6.02	0.98		4.75	6.76	0.00	0.000	0.000
12/31/2012	5.29	5.73	1.08		4.91	6.94	0.00	0.000	0.000
1/31/2013	4.48	5.03	1.12		5.05	7.09	0.00	0.000	0.000
2/28/2013	3.40	4.74	1.39		5.15	7.23	0.00	0.000	0.000
3/31/2013	3.62	3.95	1.09		5.26	7.35	0.00	0.000	0.000
4/30/2013	3.56	3.97	1.12		5.37	7.47	0.00	0.000	0.000
5/31/2013	4.03	5.82	1.44		5.49	7.65	0.00	0.000	0.000
6/30/2013	5.64	29.51	5.23		5.66	8.53	0.00	0.000	0.000
7/31/2013	8.69	35.09	4.04		5.93	9.62	0.00	0.000	0.000
8/31/2013	10.87	44.36	4.08		6.27	11.00	0.00	0.000	0.000
9/30/2013	9.21	43.05	4.68		6.54	12.29	0.00	0.000	0.000
10/31/2013	6.94	36.06	5.19		6.76	13.41	0.00	0.000	0.000
11/30/2013	7.11	33.85	4.76		6.97	14.42	0.00	0.000	0.000
12/31/2013	6.25	30.60	4.90		7.16	15.37	0.00	0.000	0.000
1/31/2014	2.94	23.32	7.95		7.25	16.09	0.00	0.000	0.000
2/28/2014	3.90	27.24	6.99		7.36	16.86	0.00	0.000	0.000
3/31/2014	5.16	28.82	5.59		7.52	17.75	0.00	0.000	0.000
4/30/2014	5.44	28.52	5.24		7.69	18.61	0.00	0.000	0.000
5/31/2014	5.32	26.45	4.97		7.85	19.43	0.00	0.000	0.000
6/30/2014	4.97	24.79	4.99		8.00	20.17	0.00	0.000	0.000
7/31/2014	4.80	24.79	5.16		8.15	20.94	0.00	0.000	0.000
8/31/2014	4.63	23.53	5.08		8.29	21.67	0.00	0.000	0.000
9/30/2014	4.32	21.84	5.06		8.42	22.32	0.00	0.000	0.000
10/31/2014	3.73	20.32	5.45		8.54	22.95	0.00	0.000	0.000
11/30/2014	3.35	18.27	5.46		8.64	23.50	0.00	0.000	0.000
12/31/2014	2.58	17.34	6.72		8.72	24.04	0.00	0.000	0.000

Oil Formation Vol Factor : 1.00150 m3/m3  
Water Formation Vol Factor : 1.00150 m3/m3  
Water / Oil Ratio : 5.24 m3/m3  
Pattern: 00/01-32-010-28Inj Set: DalyUnit#8BKKN  
May 25, 2015  
Operator: Tundra\_O&G\_Prtshp  
Oil Rate (CD) : 2.11 m3/d  
Water Rate (CD) : 11.03 m3/d  
Water Inj Rate (CD) : \* 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
11/30/1991	0.96	0.64	0.67		0.03	0.02	0.00	0.000	0.000
12/31/1991	3.93	2.00	0.51		0.15	0.08	0.00	0.000	0.000
1/31/1992	2.67	1.48	0.55		0.23	0.13	0.00	0.000	0.000
2/29/1992	2.18	0.99	0.45		0.30	0.16	0.00	0.000	0.000
3/31/1992	1.54	1.07	0.70		0.34	0.19	0.00	0.000	0.000
4/30/1992	1.22	0.47	0.38		0.38	0.20	0.00	0.000	0.000
5/31/1992	0.51	0.55	1.06		0.40	0.22	0.00	0.000	0.000
6/30/1992	2.08	1.25	0.60		0.46	0.26	0.00	0.000	0.000
7/31/1992	1.92	0.95	0.50		0.52	0.29	0.00	0.000	0.000
8/31/1992	1.83	0.70	0.38		0.58	0.31	0.00	0.000	0.000
9/30/1992	1.81	0.71	0.39		0.63	0.33	0.00	0.000	0.000
10/31/1992	1.68	0.71	0.42		0.68	0.35	0.00	0.000	0.000
11/30/1992	1.74	0.54	0.31		0.73	0.37	0.00	0.000	0.000
12/31/1992	1.69	0.52	0.31		0.79	0.38	0.00	0.000	0.000
1/31/1993	1.53	0.58	0.38		0.83	0.40	0.00	0.000	0.000
2/28/1993	1.58	0.41	0.26		0.88	0.41	0.00	0.000	0.000
3/31/1993	1.43	0.33	0.23		0.92	0.42	0.00	0.000	0.000
4/30/1993	1.63	0.59	0.36		0.97	0.44	0.00	0.000	0.000
5/31/1993	1.29	0.75	0.59		1.01	0.47	0.00	0.000	0.000
6/30/1993	1.08	0.44	0.41		1.04	0.48	0.00	0.000	0.000
7/31/1993	1.45	0.73	0.50		1.09	0.50	0.00	0.000	0.000
8/31/1993	1.59	0.36	0.23		1.14	0.51	0.00	0.000	0.000
9/30/1993	1.38	0.54	0.39		1.18	0.53	0.00	0.000	0.000
10/31/1993	0.95	0.35	0.36		1.21	0.54	0.00	0.000	0.000
11/30/1993	0.97	0.37	0.38		1.24	0.55	0.00	0.000	0.000
12/31/1993	0.95	0.38	0.40		1.27	0.56	0.00	0.000	0.000
1/31/1994	0.88	0.06	0.07		1.29	0.56	0.00	0.000	0.000
2/28/1994	0.99	0.21	0.22		1.32	0.57	0.00	0.000	0.000
3/31/1994	0.98	0.22	0.23		1.35	0.58	0.00	0.000	0.000
4/30/1994	0.81	0.37	0.46		1.38	0.59	0.00	0.000	0.000
5/31/1994	0.79	0.78	0.98		1.40	0.61	0.00	0.000	0.000
6/30/1994	0.87	0.53	0.60		1.43	0.63	0.00	0.000	0.000
7/31/1994	0.86	0.50	0.58		1.45	0.64	0.00	0.000	0.000
8/31/1994	0.94	0.33	0.36		1.48	0.65	0.00	0.000	0.000
9/30/1994	0.90	0.37	0.41		1.51	0.66	0.00	0.000	0.000
10/31/1994	0.92	0.37	0.40		1.54	0.68	0.00	0.000	0.000
11/30/1994	0.90	0.30	0.34		1.57	0.69	0.00	0.000	0.000
12/31/1994	0.90	0.28	0.31		1.59	0.69	0.00	0.000	0.000
1/31/1995	0.82	0.39	0.48		1.62	0.71	0.00	0.000	0.000
2/28/1995	0.82	0.38	0.46		1.64	0.72	0.00	0.000	0.000
3/31/1995	0.83	0.28	0.34		1.67	0.73	0.00	0.000	0.000
4/30/1995	0.86	0.26	0.31		1.69	0.73	0.00	0.000	0.000
5/31/1995	0.92	0.29	0.32		1.72	0.74	0.00	0.000	0.000
6/30/1995	0.67	0.48	0.72		1.74	0.76	0.00	0.000	0.000
7/31/1995	0.61	0.40	0.66		1.76	0.77	0.00	0.000	0.000
8/31/1995	0.60	0.39	0.65		1.78	0.78	0.00	0.000	0.000
9/30/1995	0.60	0.37	0.62		1.80	0.79	0.00	0.000	0.000
10/31/1995	0.59	0.41	0.70		1.82	0.81	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
11/30/1995	0.59	0.46	0.79		1.83	0.82	0.00	0.000	0.000
12/31/1995	0.43	0.29	0.68		1.85	0.83	0.00	0.000	0.000
1/31/1996	0.74	0.23	0.31		1.87	0.84	0.00	0.000	0.000
2/29/1996	0.66	0.32	0.49		1.89	0.84	0.00	0.000	0.000
3/31/1996	0.64	0.27	0.43		1.91	0.85	0.00	0.000	0.000
4/30/1996	0.66	0.17	0.26		1.93	0.86	0.00	0.000	0.000
5/31/1996	0.61	0.29	0.48		1.95	0.87	0.00	0.000	0.000
6/30/1996	0.62	0.27	0.44		1.97	0.88	0.00	0.000	0.000
7/31/1996	0.60	0.32	0.53		1.99	0.89	0.00	0.000	0.000
8/31/1996	0.55	0.37	0.68		2.00	0.90	0.00	0.000	0.000
9/30/1996	0.57	0.36	0.64		2.02	0.91	0.00	0.000	0.000
10/31/1996	0.61	0.22	0.36		2.04	0.91	0.00	0.000	0.000
11/30/1996	0.51	0.41	0.81		2.05	0.93	0.00	0.000	0.000
12/31/1996	0.56	0.20	0.36		2.07	0.93	0.00	0.000	0.000
1/31/1997	0.45	0.28	0.64		2.08	0.94	0.00	0.000	0.000
2/28/1997	0.50	0.41	0.82		2.10	0.95	0.00	0.000	0.000
3/31/1997	0.41	0.71	1.71		2.11	0.98	0.00	0.000	0.000
4/30/1997	0.41	0.39	0.97		2.12	0.99	0.00	0.000	0.000
5/31/1997	0.49	0.39	0.79		2.14	1.00	0.00	0.000	0.000
6/30/1997	0.16	0.39	2.37		2.14	1.01	0.00	0.000	0.000
7/31/1997	0.17	0.39	2.35		2.15	1.02	0.00	0.000	0.000
8/31/1997	0.31	0.26	0.84		2.16	1.03	0.00	0.000	0.000
9/30/1997	0.33	0.28	0.83		2.17	1.04	0.00	0.000	0.000
10/31/1997	0.33	0.27	0.83		2.18	1.05	0.00	0.000	0.000
11/30/1997	0.35	0.24	0.70		2.19	1.06	0.00	0.000	0.000
12/31/1997	0.41	0.15	0.36		2.20	1.06	0.00	0.000	0.000
1/31/1998	0.44	0.15	0.34		2.22	1.06	0.00	0.000	0.000
2/28/1998	0.55	0.15	0.27		2.23	1.07	0.00	0.000	0.000
3/31/1998	0.47	0.13	0.27		2.25	1.07	0.00	0.000	0.000
4/30/1998	0.46	0.11	0.25		2.26	1.08	0.00	0.000	0.000
5/31/1998	0.42	0.14	0.33		2.27	1.08	0.00	0.000	0.000
6/30/1998	0.42	0.14	0.34		2.29	1.08	0.00	0.000	0.000
7/31/1998	0.39	0.15	0.38		2.30	1.09	0.00	0.000	0.000
8/31/1998	0.22	0.31	1.41		2.30	1.10	0.00	0.000	0.000
9/30/1998	0.22	0.24	1.06		2.31	1.11	0.00	0.000	0.000
10/31/1998	0.20	0.38	1.92		2.32	1.12	0.00	0.000	0.000
11/30/1998	0.16	0.57	3.56		2.32	1.13	0.00	0.000	0.000
12/31/1998	0.14	0.52	3.64		2.33	1.15	0.00	0.000	0.000
1/31/1999	0.09	0.58	6.46		2.33	1.17	0.00	0.000	0.000
2/28/1999	0.08	0.60	7.64		2.33	1.19	0.00	0.000	0.000
3/31/1999	0.08	0.68	8.75		2.33	1.21	0.00	0.000	0.000
4/30/1999	0.07	0.68	9.32		2.34	1.23	0.00	0.000	0.000
5/31/1999	0.07	0.68	9.22		2.34	1.25	0.00	0.000	0.000
6/30/1999	0.07	0.93	12.68		2.34	1.28	0.00	0.000	0.000
7/31/1999	0.07	1.02	14.41		2.34	1.31	0.00	0.000	0.000
8/31/1999	0.08	0.97	12.58		2.34	1.34	0.00	0.000	0.000
9/30/1999	0.07	0.85	11.55		2.35	1.36	0.00	0.000	0.000
10/31/1999	0.09	0.08	0.90		2.35	1.37	0.00	0.000	0.000

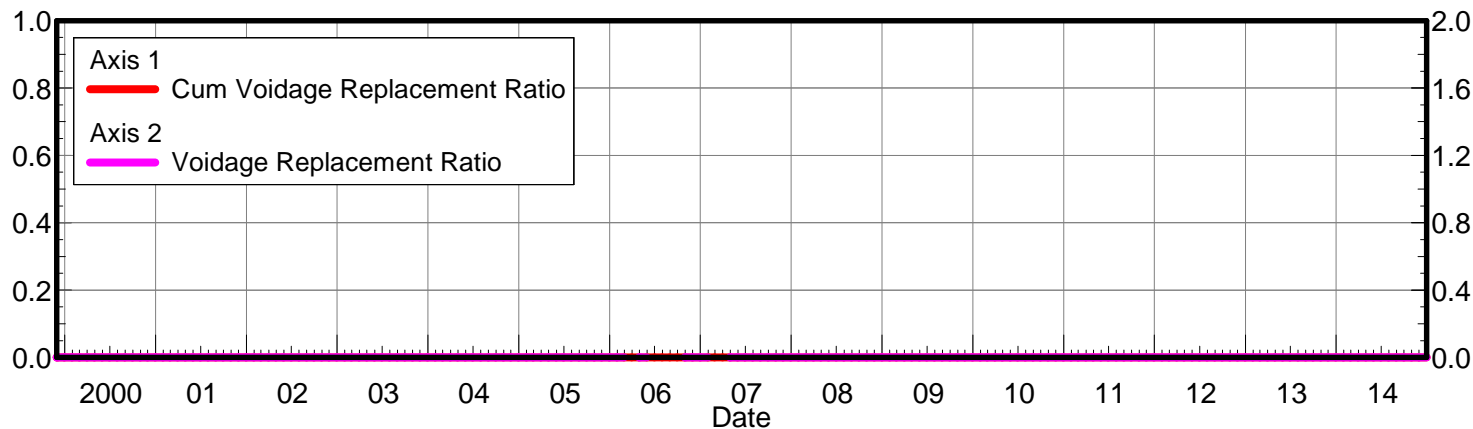
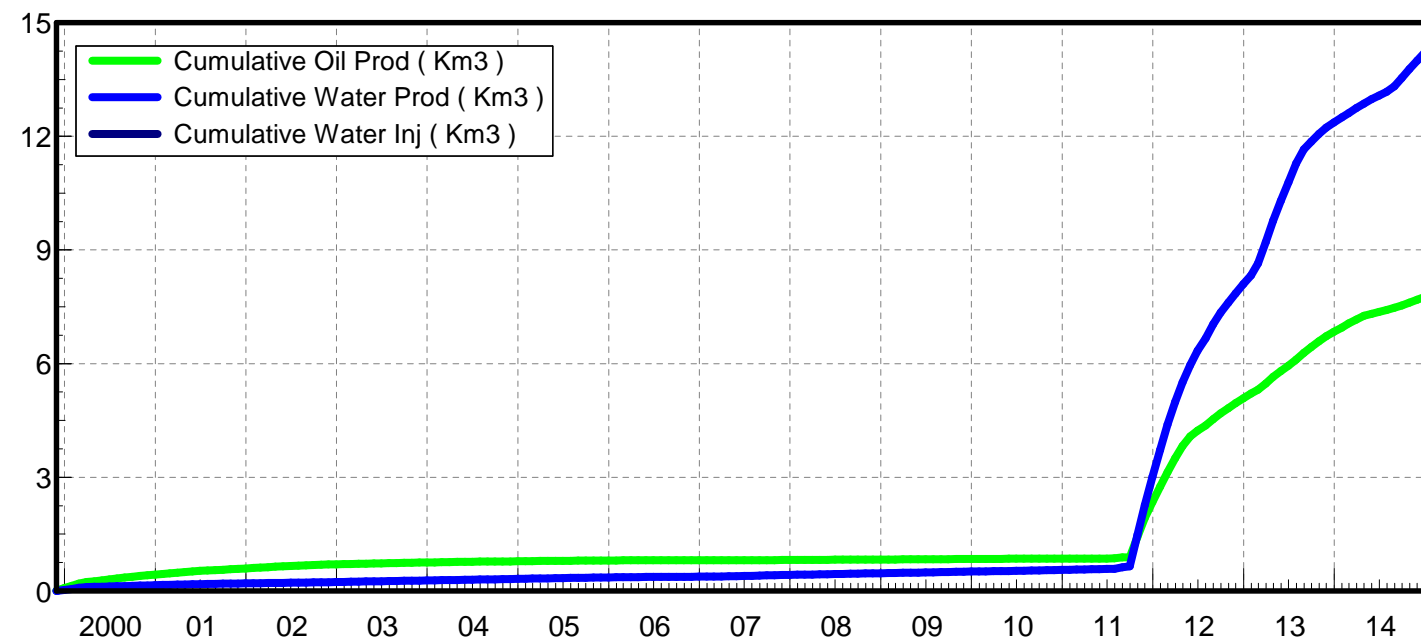
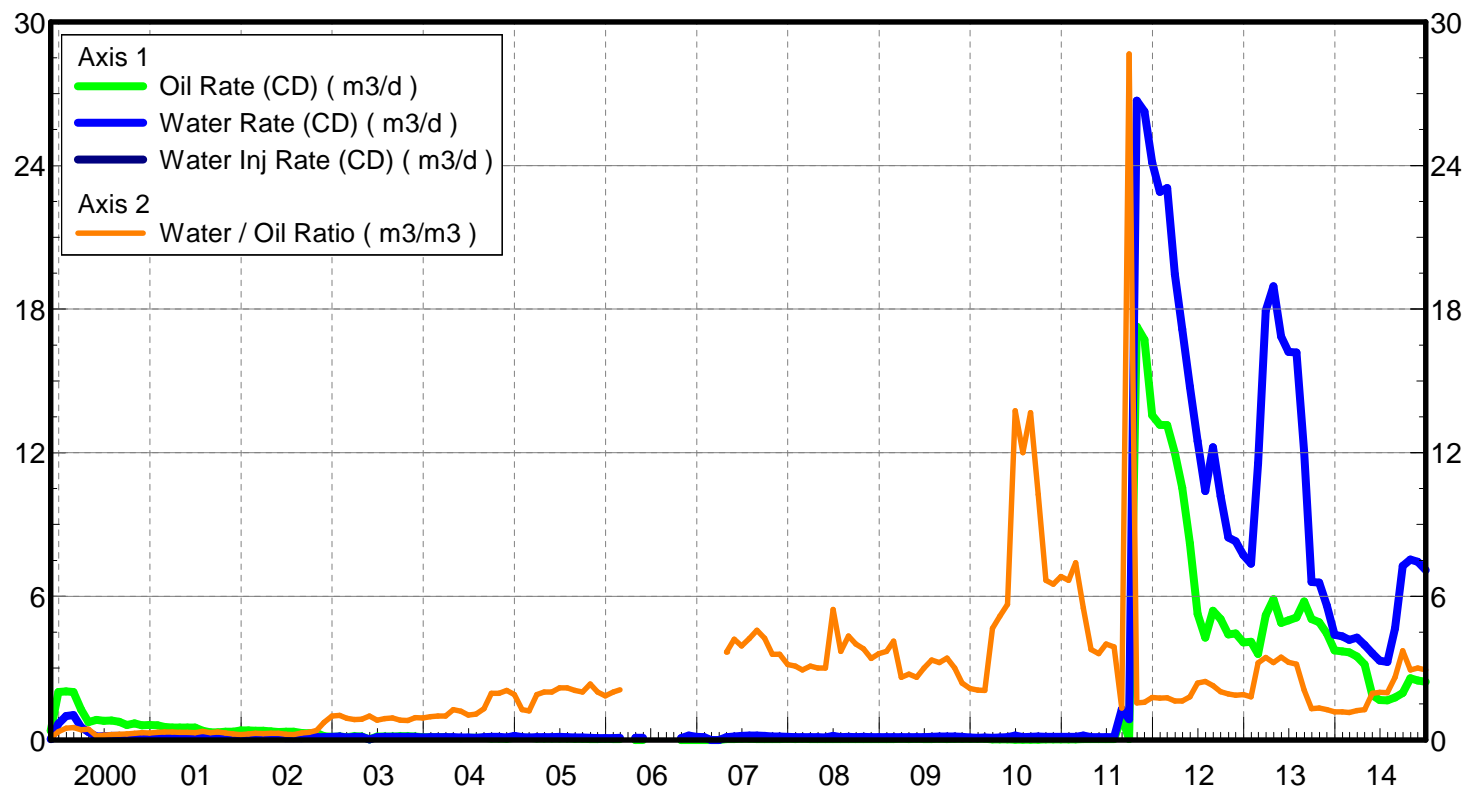
Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
11/30/1999	0.10	0.09	0.90		2.35	1.37	0.00	0.000	0.000
12/31/1999	0.09	0.06	0.70		2.36	1.37	0.00	0.000	0.000
1/31/2000	0.09	0.08	0.86		2.36	1.37	0.00	0.000	0.000
2/29/2000	0.09	0.08	0.92		2.36	1.38	0.00	0.000	0.000
3/31/2000	0.09	0.06	0.68		2.36	1.38	0.00	0.000	0.000
4/30/2000	0.10	0.07	0.72		2.37	1.38	0.00	0.000	0.000
5/31/2000	0.10	0.07	0.74		2.37	1.38	0.00	0.000	0.000
6/30/2000	0.11	0.09	0.81		2.37	1.38	0.00	0.000	0.000
7/31/2000	0.10	0.09	0.91		2.38	1.39	0.00	0.000	0.000
8/31/2000	0.10	0.10	0.97		2.38	1.39	0.00	0.000	0.000
9/30/2000	0.08	0.09	1.13		2.38	1.39	0.00	0.000	0.000
10/31/2000	0.09	0.11	1.22		2.38	1.40	0.00	0.000	0.000
11/30/2000	0.07	0.10	1.32		2.39	1.40	0.00	0.000	0.000
12/31/2000	0.07	0.09	1.22		2.39	1.40	0.00	0.000	0.000
1/31/2001	0.07	0.10	1.35		2.39	1.41	0.00	0.000	0.000
2/28/2001	0.06	0.09	1.44		2.39	1.41	0.00	0.000	0.000
3/31/2001	0.06	0.09	1.40		2.39	1.41	0.00	0.000	0.000
4/30/2001	0.07	0.08	1.20		2.40	1.41	0.00	0.000	0.000
5/31/2001	0.07	0.08	1.14		2.40	1.42	0.00	0.000	0.000
6/30/2001	0.06	0.08	1.32		2.40	1.42	0.00	0.000	0.000
7/31/2001	0.07	0.11	1.43		2.40	1.42	0.00	0.000	0.000
8/31/2001	0.07	0.10	1.43		2.41	1.42	0.00	0.000	0.000
9/30/2001	0.07	0.10	1.41		2.41	1.43	0.00	0.000	0.000
10/31/2001	0.09	0.11	1.18		2.41	1.43	0.00	0.000	0.000
11/30/2001	0.08	0.11	1.42		2.41	1.43	0.00	0.000	0.000
12/31/2001	0.09	0.10	1.07		2.42	1.44	0.00	0.000	0.000
1/31/2002	0.09	0.11	1.17		2.42	1.44	0.00	0.000	0.000
2/28/2002	0.09	0.11	1.19		2.42	1.44	0.00	0.000	0.000
3/31/2002	0.08	0.09	1.16		2.42	1.45	0.00	0.000	0.000
4/30/2002	0.09	0.11	1.21		2.43	1.45	0.00	0.000	0.000
5/31/2002	0.10	0.12	1.23		2.43	1.45	0.00	0.000	0.000
6/30/2002	0.09	0.10	1.04		2.43	1.46	0.00	0.000	0.000
7/31/2002	0.10	0.10	1.00		2.44	1.46	0.00	0.000	0.000
8/31/2002	0.09	0.09	1.00		2.44	1.46	0.00	0.000	0.000
9/30/2002	0.09	0.09	1.08		2.44	1.47	0.00	0.000	0.000
10/31/2002	0.08	0.09	1.08		2.44	1.47	0.00	0.000	0.000
11/30/2002	0.03	0.10	3.00		2.44	1.47	0.00	0.000	0.000
12/31/2002	0.03	0.08	2.78		2.44	1.47	0.00	0.000	0.000
1/31/2003	0.03	0.09	3.00		2.45	1.48	0.00	0.000	0.000
2/28/2003	0.03	0.09	3.71		2.45	1.48	0.00	0.000	0.000
3/31/2003	0.03	0.08	3.00		2.45	1.48	0.00	0.000	0.000
4/30/2003	0.03	0.08	3.00		2.45	1.48	0.00	0.000	0.000
5/31/2003	0.03	0.09	3.11		2.45	1.49	0.00	0.000	0.000
6/30/2003	0.03	0.09	3.25		2.45	1.49	0.00	0.000	0.000
7/31/2003	0.03	0.09	3.11		2.45	1.49	0.00	0.000	0.000
8/31/2003	0.03	0.09	2.80		2.45	1.49	0.00	0.000	0.000
9/30/2003	0.03	0.09	3.50		2.45	1.50	0.00	0.000	0.000
10/31/2003	0.03	0.09	3.22		2.45	1.50	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
11/30/2003	0.03	0.09	3.00		2.45	1.50	0.00	0.000	0.000
12/31/2003	0.03	0.09	3.22		2.46	1.51	0.00	0.000	0.000
1/31/2004	0.03	0.08	2.60		2.46	1.51	0.00	0.000	0.000
2/29/2004	0.03	0.09	2.89		2.46	1.51	0.00	0.000	0.000
3/31/2004	0.03	0.09	2.70		2.46	1.51	0.00	0.000	0.000
4/30/2004	0.06	0.08	1.47		2.46	1.52	0.00	0.000	0.000
5/31/2004	0.05	0.08	1.41		2.46	1.52	0.00	0.000	0.000
6/30/2004	0.06	0.08	1.28		2.46	1.52	0.00	0.000	0.000
7/31/2004	0.06	0.08	1.33		2.47	1.52	0.00	0.000	0.000
8/31/2004	0.07	0.07	1.05		2.47	1.53	0.00	0.000	0.000
9/30/2004	0.05	0.06	1.13		2.47	1.53	0.00	0.000	0.000
10/31/2004	0.06	0.06	1.11		2.47	1.53	0.00	0.000	0.000
11/30/2004	0.07	0.09	1.24		2.47	1.53	0.00	0.000	0.000
12/31/2004	0.06	0.08	1.20		2.47	1.53	0.00	0.000	0.000
1/31/2005	0.06	0.08	1.26		2.48	1.54	0.00	0.000	0.000
2/28/2005	0.06	0.08	1.22		2.48	1.54	0.00	0.000	0.000
3/31/2005	0.07	0.08	1.14		2.48	1.54	0.00	0.000	0.000
4/30/2005	0.06	0.06	1.12		2.48	1.54	0.00	0.000	0.000
5/31/2005	0.07	0.08	1.14		2.48	1.55	0.00	0.000	0.000
6/30/2005	0.07	0.08	1.25		2.49	1.55	0.00	0.000	0.000
7/31/2005	0.06	0.08	1.30		2.49	1.55	0.00	0.000	0.000
8/31/2005	0.06	0.07	1.15		2.49	1.55	0.00	0.000	0.000
9/30/2005	0.07	0.08	1.25		2.49	1.56	0.00	0.000	0.000
10/31/2005	0.06	0.08	1.25		2.49	1.56	0.00	0.000	0.000
11/30/2005	0.07	0.09	1.30		2.50	1.56	0.00	0.000	0.000
12/31/2005	0.07	0.08	1.14		2.50	1.56	0.00	0.000	0.000
1/31/2006	0.07	0.08	1.14		2.50	1.57	0.00	0.000	0.000
2/28/2006	0.07	0.08	1.10		2.50	1.57	0.00	0.000	0.000
3/31/2006	0.07	0.08	1.14		2.50	1.57	0.00	0.000	0.000
4/30/2006	0.07	0.08	1.14		2.51	1.57	0.00	0.000	0.000
5/31/2006	0.07	0.08	1.09		2.51	1.57	0.00	0.000	0.000
6/30/2006	0.06	0.07	1.11		2.51	1.58	0.00	0.000	0.000
7/31/2006	0.06	0.08	1.20		2.51	1.58	0.00	0.000	0.000
8/31/2006	0.07	0.08	1.14		2.52	1.58	0.00	0.000	0.000
9/30/2006	0.06	0.07	1.17		2.52	1.58	0.00	0.000	0.000
10/31/2006	0.06	0.08	1.20		2.52	1.59	0.00	0.000	0.000
11/30/2006	0.07	0.08	1.20		2.52	1.59	0.00	0.000	0.000
12/31/2006	0.06	0.09	1.35		2.52	1.59	0.00	0.000	0.000
1/31/2007	0.04	0.05	1.42		2.52	1.59	0.00	0.000	0.000
2/28/2007	0.05	0.07	1.62		2.53	1.60	0.00	0.000	0.000
3/31/2007	0.13	0.10	0.78		2.53	1.60	0.00	0.000	0.000
4/30/2007	0.15	0.10	0.68		2.53	1.60	0.00	0.000	0.000
5/31/2007	0.14	0.10	0.68		2.54	1.60	0.00	0.000	0.000
6/30/2007	0.12	0.07	0.58		2.54	1.61	0.00	0.000	0.000
7/31/2007	0.12	0.07	0.62		2.55	1.61	0.00	0.000	0.000
8/31/2007	0.12	0.07	0.64		2.55	1.61	0.00	0.000	0.000
9/30/2007	0.11	0.07	0.67		2.55	1.61	0.00	0.000	0.000
10/31/2007	0.06	0.06	1.00		2.55	1.61	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 Replacemnt Ratio
11/30/2007	0.06	0.06	1.12		2.56	1.62	0.00	0.000	0.000
12/31/2007	0.06	0.06	1.06		2.56	1.62	0.00	0.000	0.000
1/31/2008	0.06	0.06	1.06		2.56	1.62	0.00	0.000	0.000
2/29/2008	0.05	0.07	1.27		2.56	1.62	0.00	0.000	0.000
3/31/2008	0.05	0.07	1.57		2.56	1.62	0.00	0.000	0.000
4/30/2008	0.04	0.07	1.75		2.56	1.63	0.00	0.000	0.000
5/31/2008	0.04	0.07	2.00		2.56	1.63	0.00	0.000	0.000
6/30/2008	0.04	0.08	1.92		2.57	1.63	0.00	0.000	0.000
7/31/2008	0.04	0.08	1.92		2.57	1.63	0.00	0.000	0.000
8/31/2008	0.04	0.10	2.50		2.57	1.64	0.00	0.000	0.000
9/30/2008	0.04	0.10	2.73		2.57	1.64	0.00	0.000	0.000
10/31/2008	0.04	0.10	2.38		2.57	1.64	0.00	0.000	0.000
11/30/2008	0.04	0.08	2.08		2.57	1.65	0.00	0.000	0.000
12/31/2008	0.04	0.09	2.15		2.57	1.65	0.00	0.000	0.000
1/31/2009	0.04	0.10	2.38		2.57	1.65	0.00	0.000	0.000
2/28/2009	0.03	0.10	3.22		2.58	1.65	0.00	0.000	0.000
3/31/2009	0.05	0.10	2.00		2.58	1.66	0.00	0.000	0.000
4/30/2009	0.05	0.09	1.80		2.58	1.66	0.00	0.000	0.000
5/31/2009	0.05	0.09	1.75		2.58	1.66	0.00	0.000	0.000
6/30/2009	0.04	0.09	2.08		2.58	1.67	0.00	0.000	0.000
7/31/2009	0.05	0.07	1.47		2.58	1.67	0.00	0.000	0.000
8/31/2009	0.05	0.07	1.53		2.58	1.67	0.00	0.000	0.000
9/30/2009	0.05	0.07	1.47		2.59	1.67	0.00	0.000	0.000
10/31/2009	0.05	0.07	1.64		2.59	1.67	0.00	0.000	0.000
11/30/2009	0.04	0.08	2.00		2.59	1.68	0.00	0.000	0.000
12/31/2009	0.04	0.09	2.15		2.59	1.68	0.00	0.000	0.000
1/31/2010	0.04	0.09	2.15		2.59	1.68	0.00	0.000	0.000
2/28/2010	0.04	0.09	2.60		2.59	1.69	0.00	0.000	0.000
3/31/2010	0.03	0.09	2.80		2.59	1.69	0.00	0.000	0.000
4/30/2010	0.05	0.07	1.43		2.59	1.69	0.00	0.000	0.000
5/31/2010	0.06	0.09	1.50		2.60	1.69	0.00	0.000	0.000
6/30/2010	0.04	0.18	4.15		2.60	1.70	0.00	0.000	0.000
7/31/2010	0.05	0.07	1.38		2.60	1.70	0.00	0.000	0.000
8/31/2010	0.05	0.08	1.47		2.60	1.70	0.00	0.000	0.000
9/30/2010	0.06	0.08	1.33		2.60	1.71	0.00	0.000	0.000
10/31/2010	0.06	0.08	1.32		2.60	1.71	0.00	0.000	0.000
11/30/2010	0.06	0.08	1.26		2.61	1.71	0.00	0.000	0.000
12/31/2010	0.06	0.08	1.37		2.61	1.71	0.00	0.000	0.000
1/31/2011	0.05	0.08	1.47		2.61	1.72	0.00	0.000	0.000
2/28/2011	0.06	0.08	1.38		2.61	1.72	0.00	0.000	0.000
3/31/2011	0.04	0.05	1.33		2.61	1.72	0.00	0.000	0.000
4/30/2011	7.08	24.23	3.42		2.83	2.45	0.00	0.000	0.000
5/31/2011	6.61	21.40	3.24		3.03	3.11	0.00	0.000	0.000
6/30/2011	8.04	23.24	2.89		3.27	3.81	0.00	0.000	0.000
7/31/2011	12.16	30.95	2.54		3.65	4.77	0.00	0.000	0.000
8/31/2011	13.28	31.24	2.35		4.06	5.73	0.00	0.000	0.000
9/30/2011	12.36	31.56	2.55		4.43	6.68	0.00	0.000	0.000
10/31/2011	11.82	33.47	2.83		4.80	7.72	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
11/30/2011	11.70	17.58	1.50		5.15	8.25	0.00	0.000	0.000
12/31/2011	12.48	17.80	1.43		5.54	8.80	0.00	0.000	0.000
1/31/2012	12.09	17.28	1.43		5.91	9.33	0.00	0.000	0.000
2/29/2012	7.79	15.18	1.95		6.14	9.77	0.00	0.000	0.000
3/31/2012	6.43	15.98	2.49		6.34	10.27	0.00	0.000	0.000
4/30/2012	5.84	14.52	2.49		6.51	10.71	0.00	0.000	0.000
5/31/2012	5.21	13.81	2.65		6.67	11.13	0.00	0.000	0.000
6/30/2012	4.14	12.45	3.01		6.80	11.51	0.00	0.000	0.000
7/31/2012	3.52	11.07	3.15		6.91	11.85	0.00	0.000	0.000
8/31/2012	4.38	13.12	2.99		7.04	12.26	0.00	0.000	0.000
9/30/2012	2.89	11.44	3.96		7.13	12.60	0.00	0.000	0.000
10/31/2012	2.61	11.03	4.22		7.21	12.94	0.00	0.000	0.000
11/30/2012	2.27	11.25	4.96		7.28	13.28	0.00	0.000	0.000
12/31/2012	2.21	10.43	4.72		7.35	13.60	0.00	0.000	0.000
1/31/2013	1.98	9.81	4.94		7.41	13.91	0.00	0.000	0.000
2/28/2013	1.38	10.73	7.78		7.45	14.21	0.00	0.000	0.000
3/31/2013	4.57	19.38	4.24		7.59	14.81	0.00	0.000	0.000
4/30/2013	4.41	16.66	3.78		7.72	15.31	0.00	0.000	0.000
5/31/2013	3.25	12.62	3.88		7.82	15.70	0.00	0.000	0.000
6/30/2013	4.59	26.51	5.78		7.96	16.49	0.00	0.000	0.000
7/31/2013	7.41	31.29	4.22		8.19	17.46	0.00	0.000	0.000
8/31/2013	8.90	33.95	3.82		8.46	18.52	0.00	0.000	0.000
9/30/2013	5.29	22.03	4.17		8.62	19.18	0.00	0.000	0.000
10/31/2013	5.11	20.51	4.01		8.78	19.81	0.00	0.000	0.000
11/30/2013	4.86	17.10	3.52		8.93	20.33	0.00	0.000	0.000
12/31/2013	4.24	15.84	3.74		9.06	20.82	0.00	0.000	0.000
1/31/2014	1.51	11.06	7.33		9.10	21.16	0.00	0.000	0.000
2/28/2014	2.32	14.68	6.33		9.17	21.57	0.00	0.000	0.000
3/31/2014	3.93	16.59	4.22		9.29	22.09	0.00	0.000	0.000
4/30/2014	4.24	17.21	4.06		9.42	22.60	0.00	0.000	0.000
5/31/2014	4.21	15.55	3.69		9.55	23.08	0.00	0.000	0.000
6/30/2014	3.35	13.94	4.16		9.65	23.50	0.00	0.000	0.000
7/31/2014	3.18	13.34	4.20		9.75	23.92	0.00	0.000	0.000
8/31/2014	2.71	11.58	4.27		9.83	24.27	0.00	0.000	0.000
9/30/2014	2.40	20.85	8.70		9.90	24.90	0.00	0.000	0.000
10/31/2014	3.07	26.78	8.72		10.00	25.73	0.00	0.000	0.000
11/30/2014	4.75	34.39	7.25		10.14	26.76	0.00	0.000	0.000
12/31/2014	2.11	11.03	5.24		10.21	27.10	0.00	0.000	0.000

Oil Formation Vol Factor : 0.82 m3/m3  
Water Formation Vol Factor : 1.00150 m3/m3  
Water / Oil Ratio : 2.92 m3/m3  
Pattern : 00/08-32-010-28  
Inj Set: DalyUnit#8BKKN  
May 25, 2015  
Operator: Tundra\_O&G\_Prtnshp  
Oil Rate (CD) : 2.43 m3/d  
Water Rate (CD) : 7.10 m3/d  
Water Inj Rate (CD) : \* 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
11/30/1999	0.38	0.03	0.08		0.01	0.00	0.00	0.000	0.000
12/31/1999	2.01	0.68	0.34		0.07	0.02	0.00	0.000	0.000
1/31/2000	2.03	1.00	0.49		0.14	0.05	0.00	0.000	0.000
2/29/2000	2.00	1.03	0.51		0.19	0.08	0.00	0.000	0.000
3/31/2000	1.26	0.53	0.42		0.23	0.10	0.00	0.000	0.000
4/30/2000	0.75	0.33	0.45		0.26	0.11	0.00	0.000	0.000
5/31/2000	0.84	0.14	0.17		0.28	0.11	0.00	0.000	0.000
6/30/2000	0.80	0.15	0.19		0.31	0.12	0.00	0.000	0.000
7/31/2000	0.81	0.17	0.22		0.33	0.12	0.00	0.000	0.000
8/31/2000	0.75	0.17	0.23		0.35	0.13	0.00	0.000	0.000
9/30/2000	0.62	0.15	0.25		0.37	0.13	0.00	0.000	0.000
10/31/2000	0.68	0.19	0.27		0.39	0.14	0.00	0.000	0.000
11/30/2000	0.61	0.18	0.30		0.41	0.15	0.00	0.000	0.000
12/31/2000	0.63	0.18	0.28		0.43	0.15	0.00	0.000	0.000
1/31/2001	0.61	0.19	0.31		0.45	0.16	0.00	0.000	0.000
2/28/2001	0.54	0.17	0.32		0.47	0.16	0.00	0.000	0.000
3/31/2001	0.52	0.17	0.33		0.48	0.17	0.00	0.000	0.000
4/30/2001	0.51	0.16	0.31		0.50	0.17	0.00	0.000	0.000
5/31/2001	0.51	0.16	0.31		0.51	0.18	0.00	0.000	0.000
6/30/2001	0.51	0.16	0.31		0.53	0.18	0.00	0.000	0.000
7/31/2001	0.38	0.14	0.36		0.54	0.19	0.00	0.000	0.000
8/31/2001	0.32	0.10	0.30		0.55	0.19	0.00	0.000	0.000
9/30/2001	0.31	0.10	0.33		0.56	0.19	0.00	0.000	0.000
10/31/2001	0.35	0.10	0.29		0.57	0.19	0.00	0.000	0.000
11/30/2001	0.34	0.09	0.25		0.58	0.20	0.00	0.000	0.000
12/31/2001	0.40	0.09	0.23		0.59	0.20	0.00	0.000	0.000
1/31/2002	0.39	0.10	0.25		0.61	0.20	0.00	0.000	0.000
2/28/2002	0.38	0.10	0.27		0.62	0.21	0.00	0.000	0.000
3/31/2002	0.38	0.10	0.26		0.63	0.21	0.00	0.000	0.000
4/30/2002	0.36	0.10	0.28		0.64	0.21	0.00	0.000	0.000
5/31/2002	0.32	0.09	0.27		0.65	0.21	0.00	0.000	0.000
6/30/2002	0.34	0.08	0.23		0.66	0.22	0.00	0.000	0.000
7/31/2002	0.34	0.08	0.23		0.67	0.22	0.00	0.000	0.000
8/31/2002	0.28	0.08	0.28		0.68	0.22	0.00	0.000	0.000
9/30/2002	0.28	0.09	0.31		0.69	0.22	0.00	0.000	0.000
10/31/2002	0.29	0.11	0.39		0.70	0.23	0.00	0.000	0.000
11/30/2002	0.16	0.11	0.72		0.70	0.23	0.00	0.000	0.000
12/31/2002	0.13	0.13	1.00		0.70	0.24	0.00	0.000	0.000
1/31/2003	0.14	0.14	1.02		0.71	0.24	0.00	0.000	0.000
2/28/2003	0.12	0.11	0.91		0.71	0.24	0.00	0.000	0.000
3/31/2003	0.15	0.13	0.85		0.72	0.25	0.00	0.000	0.000
4/30/2003	0.15	0.13	0.86		0.72	0.25	0.00	0.000	0.000
5/31/2003	0.03	0.03	1.00		0.72	0.25	0.00	0.000	0.000
6/30/2003	0.14	0.11	0.83		0.73	0.25	0.00	0.000	0.000
7/31/2003	0.14	0.13	0.89		0.73	0.26	0.00	0.000	0.000
8/31/2003	0.15	0.13	0.91		0.74	0.26	0.00	0.000	0.000
9/30/2003	0.16	0.13	0.83		0.74	0.27	0.00	0.000	0.000
10/31/2003	0.15	0.12	0.81		0.74	0.27	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
11/30/2003	0.14	0.13	0.93		0.75	0.27	0.00	0.000	0.000
12/31/2003	0.11	0.10	0.91		0.75	0.28	0.00	0.000	0.000
1/31/2004	0.11	0.11	0.97		0.76	0.28	0.00	0.000	0.000
2/29/2004	0.11	0.11	1.00		0.76	0.28	0.00	0.000	0.000
3/31/2004	0.11	0.11	1.00		0.76	0.29	0.00	0.000	0.000
4/30/2004	0.09	0.11	1.27		0.77	0.29	0.00	0.000	0.000
5/31/2004	0.08	0.10	1.20		0.77	0.29	0.00	0.000	0.000
6/30/2004	0.09	0.10	1.04		0.77	0.30	0.00	0.000	0.000
7/31/2004	0.09	0.09	1.07		0.77	0.30	0.00	0.000	0.000
8/31/2004	0.08	0.11	1.31		0.78	0.30	0.00	0.000	0.000
9/30/2004	0.07	0.13	1.95		0.78	0.31	0.00	0.000	0.000
10/31/2004	0.07	0.13	1.95		0.78	0.31	0.00	0.000	0.000
11/30/2004	0.05	0.10	2.07		0.78	0.31	0.00	0.000	0.000
12/31/2004	0.09	0.16	1.89		0.78	0.32	0.00	0.000	0.000
1/31/2005	0.09	0.11	1.26		0.79	0.32	0.00	0.000	0.000
2/28/2005	0.09	0.10	1.21		0.79	0.33	0.00	0.000	0.000
3/31/2005	0.06	0.12	1.89		0.79	0.33	0.00	0.000	0.000
4/30/2005	0.06	0.11	2.00		0.79	0.33	0.00	0.000	0.000
5/31/2005	0.06	0.12	2.00		0.79	0.34	0.00	0.000	0.000
6/30/2005	0.06	0.12	2.18		0.80	0.34	0.00	0.000	0.000
7/31/2005	0.05	0.12	2.18		0.80	0.34	0.00	0.000	0.000
8/31/2005	0.05	0.10	2.07		0.80	0.35	0.00	0.000	0.000
9/30/2005	0.05	0.10	2.00		0.80	0.35	0.00	0.000	0.000
10/31/2005	0.04	0.09	2.33		0.80	0.35	0.00	0.000	0.000
11/30/2005	0.04	0.08	2.00		0.80	0.35	0.00	0.000	0.000
12/31/2005	0.04	0.08	1.85		0.80	0.36	0.00	0.000	0.000
1/31/2006	0.04	0.08	2.00		0.81	0.36	0.00	0.000	0.000
2/28/2006	0.04	0.08	2.09		0.81	0.36	0.00	0.000	0.000
4/30/2006	0.00	0.09			0.81	0.36	0.00	0.000	0.000
5/31/2006	0.00	0.09			0.81	0.37	0.00	0.000	0.000
10/31/2006	0.00	0.07			0.81	0.37	0.00	0.000	0.000
11/30/2006	0.00	0.18			0.81	0.37	0.00	0.000	0.000
12/31/2006	0.00	0.12			0.81	0.38	0.00	0.000	0.000
1/31/2007	0.00	0.11			0.81	0.38	0.00	0.000	0.000
2/28/2007	0.00	0.00			0.81	0.38	0.00		0.000
3/31/2007	0.00	0.00			0.81	0.38	0.00		0.000
4/30/2007	0.03	0.11	3.67		0.81	0.39	0.00	0.000	0.000
5/31/2007	0.03	0.14	4.20		0.81	0.39	0.00	0.000	0.000
6/30/2007	0.04	0.17	3.92		0.81	0.39	0.00	0.000	0.000
7/31/2007	0.04	0.18	4.23		0.81	0.40	0.00	0.000	0.000
8/31/2007	0.04	0.18	4.58		0.81	0.41	0.00	0.000	0.000
9/30/2007	0.04	0.17	4.25		0.81	0.41	0.00	0.000	0.000
10/31/2007	0.04	0.14	3.58		0.81	0.42	0.00	0.000	0.000
11/30/2007	0.04	0.14	3.58		0.82	0.42	0.00	0.000	0.000
12/31/2007	0.04	0.13	3.15		0.82	0.42	0.00	0.000	0.000
1/31/2008	0.04	0.12	3.08		0.82	0.43	0.00	0.000	0.000
2/29/2008	0.04	0.12	2.92		0.82	0.43	0.00	0.000	0.000
3/31/2008	0.04	0.12	3.08		0.82	0.43	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 Replacemnt Ratio
4/30/2008	0.04	0.11	3.00		0.82	0.44	0.00	0.000	0.000
5/31/2008	0.04	0.11	3.00		0.82	0.44	0.00	0.000	0.000
6/30/2008	0.03	0.16	5.44		0.82	0.45	0.00	0.000	0.000
7/31/2008	0.03	0.12	3.70		0.82	0.45	0.00	0.000	0.000
8/31/2008	0.03	0.13	4.33		0.83	0.45	0.00	0.000	0.000
9/30/2008	0.03	0.12	4.00		0.83	0.46	0.00	0.000	0.000
10/31/2008	0.03	0.12	3.80		0.83	0.46	0.00	0.000	0.000
11/30/2008	0.03	0.11	3.40		0.83	0.46	0.00	0.000	0.000
12/31/2008	0.03	0.12	3.60		0.83	0.47	0.00	0.000	0.000
1/31/2009	0.03	0.12	3.70		0.83	0.47	0.00	0.000	0.000
2/28/2009	0.03	0.12	4.13		0.83	0.47	0.00	0.000	0.000
3/31/2009	0.04	0.11	2.62		0.83	0.48	0.00	0.000	0.000
4/30/2009	0.04	0.11	2.75		0.83	0.48	0.00	0.000	0.000
5/31/2009	0.04	0.11	2.62		0.84	0.48	0.00	0.000	0.000
6/30/2009	0.04	0.11	3.00		0.84	0.49	0.00	0.000	0.000
7/31/2009	0.04	0.13	3.33		0.84	0.49	0.00	0.000	0.000
8/31/2009	0.04	0.14	3.23		0.84	0.50	0.00	0.000	0.000
9/30/2009	0.04	0.14	3.42		0.84	0.50	0.00	0.000	0.000
10/31/2009	0.05	0.14	3.00		0.84	0.50	0.00	0.000	0.000
11/30/2009	0.05	0.13	2.38		0.84	0.51	0.00	0.000	0.000
12/31/2009	0.05	0.10	2.14		0.84	0.51	0.00	0.000	0.000
1/31/2010	0.04	0.09	2.08		0.85	0.51	0.00	0.000	0.000
2/28/2010	0.05	0.10	2.07		0.85	0.52	0.00	0.000	0.000
3/31/2010	0.02	0.09	4.67		0.85	0.52	0.00	0.000	0.000
4/30/2010	0.02	0.10	5.17		0.85	0.52	0.00	0.000	0.000
5/31/2010	0.02	0.11	5.67		0.85	0.53	0.00	0.000	0.000
6/30/2010	0.01	0.18	13.75		0.85	0.53	0.00	0.000	0.000
7/31/2010	0.01	0.12	12.00		0.85	0.54	0.00	0.000	0.000
8/31/2010	0.01	0.13	13.67		0.85	0.54	0.00	0.000	0.000
9/30/2010	0.01	0.14	10.25		0.85	0.54	0.00	0.000	0.000
10/31/2010	0.02	0.13	6.67		0.85	0.55	0.00	0.000	0.000
11/30/2010	0.02	0.13	6.50		0.85	0.55	0.00	0.000	0.000
12/31/2010	0.02	0.13	6.83		0.85	0.56	0.00	0.000	0.000
1/31/2011	0.02	0.13	6.67		0.85	0.56	0.00	0.000	0.000
2/28/2011	0.02	0.13	7.40		0.85	0.56	0.00	0.000	0.000
3/31/2011	0.03	0.18	5.50		0.85	0.57	0.00	0.000	0.000
4/30/2011	0.03	0.11	3.78		0.86	0.57	0.00	0.000	0.000
5/31/2011	0.03	0.12	3.60		0.86	0.58	0.00	0.000	0.000
6/30/2011	0.03	0.12	4.00		0.86	0.58	0.00	0.000	0.000
7/31/2011	0.03	0.11	3.89		0.86	0.58	0.00	0.000	0.000
8/31/2011	0.96	1.27	1.33		0.89	0.62	0.00	0.000	0.000
9/30/2011	0.03	0.86	28.67		0.89	0.65	0.00	0.000	0.000
10/31/2011	17.27	26.72	1.55		1.42	1.48	0.00	0.000	0.000
11/30/2011	16.72	26.25	1.57		1.93	2.26	0.00	0.000	0.000
12/31/2011	13.57	24.13	1.78		2.35	3.01	0.00	0.000	0.000
1/31/2012	13.16	22.90	1.74		2.75	3.72	0.00	0.000	0.000
2/29/2012	13.15	23.06	1.75		3.14	4.39	0.00	0.000	0.000
3/31/2012	11.98	19.45	1.62		3.51	4.99	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
4/30/2012	10.53	17.16	1.63		3.82	5.51	0.00	0.000	0.000
5/31/2012	8.20	14.75	1.80		4.08	5.97	0.00	0.000	0.000
6/30/2012	5.26	12.49	2.37		4.24	6.34	0.00	0.000	0.000
7/31/2012	4.27	10.40	2.44		4.37	6.66	0.00	0.000	0.000
8/31/2012	5.40	12.23	2.26		4.53	7.04	0.00	0.000	0.000
9/30/2012	5.05	10.19	2.02		4.69	7.35	0.00	0.000	0.000
10/31/2012	4.40	8.45	1.92		4.82	7.61	0.00	0.000	0.000
11/30/2012	4.45	8.30	1.86		4.96	7.86	0.00	0.000	0.000
12/31/2012	4.08	7.73	1.90		5.08	8.10	0.00	0.000	0.000
1/31/2013	4.09	7.36	1.80		5.21	8.33	0.00	0.000	0.000
2/28/2013	3.59	11.54	3.22		5.31	8.65	0.00	0.000	0.000
3/31/2013	5.21	17.94	3.44		5.47	9.21	0.00	0.000	0.000
4/30/2013	5.88	18.95	3.23		5.65	9.77	0.00	0.000	0.000
5/31/2013	4.88	16.85	3.45		5.80	10.30	0.00	0.000	0.000
6/30/2013	4.99	16.21	3.25		5.95	10.78	0.00	0.000	0.000
7/31/2013	5.11	16.19	3.17		6.11	11.28	0.00	0.000	0.000
8/31/2013	5.78	12.03	2.08		6.29	11.66	0.00	0.000	0.000
9/30/2013	5.05	6.60	1.31		6.44	11.86	0.00	0.000	0.000
10/31/2013	4.91	6.57	1.34		6.59	12.06	0.00	0.000	0.000
11/30/2013	4.44	5.61	1.26		6.72	12.23	0.00	0.000	0.000
12/31/2013	3.74	4.39	1.17		6.84	12.36	0.00	0.000	0.000
1/31/2014	3.70	4.33	1.17		6.95	12.50	0.00	0.000	0.000
2/28/2014	3.66	4.17	1.14		7.06	12.61	0.00	0.000	0.000
3/31/2014	3.49	4.28	1.23		7.17	12.75	0.00	0.000	0.000
4/30/2014	3.15	3.96	1.26		7.26	12.87	0.00	0.000	0.000
5/31/2014	1.86	3.62	1.95		7.32	12.98	0.00	0.000	0.000
6/30/2014	1.66	3.31	1.99		7.37	13.08	0.00	0.000	0.000
7/31/2014	1.65	3.26	1.97		7.42	13.18	0.00	0.000	0.000
8/31/2014	1.78	4.66	2.62		7.47	13.32	0.00	0.000	0.000
9/30/2014	1.95	7.27	3.72		7.53	13.54	0.00	0.000	0.000
10/31/2014	2.57	7.54	2.93		7.61	13.78	0.00	0.000	0.000
11/30/2014	2.48	7.44	3.00		7.69	14.00	0.00	0.000	0.000
12/31/2014	2.43	7.10	2.92		7.76	14.22	0.00	0.000	0.000



## TUNDRA OIL & GAS PARTNERSHIP

TUNDRA DALY SINCLAIR PROV HZNTL A8D-29-10-28

103/08-29-010-28W1/0

LICENSE #: 9210

BAKKEN FORMATION

Open Hole: 970 – 2368 mKBMD

(818.03 – 821.12 TVD)

RESERVOIR PRESSURE SURVEY DATA

FEBRUARY 2<sup>nd</sup> – 22<sup>nd</sup>, 2013

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# Pressure Survey Report

## Company Information

Company Name  
Contact  
e-mail  
Phone  
Site Contact  
Site Phone

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SCOTT MURRAY  
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## Well Information

Well Name TUNDRA DALY SINCLAIR PROV HZNTL A8D-29-10-28  
Unique Well ID 103/08-29-010-28W1/00  
Surface Location 9A-30 / A8D-29-10-28W1  
Well License Number 9210  
Well Type Horizontal  
Well Fluid Type 01 Oil  
Field DALY SINCLAIR

KB Elevation (SL) 519.94 m  
CF Elevation (SL) 515.84 m  
GL Elevation (SL) 517.36 m  
Distance from KB to CF (Log) 4.10 m  
KB-GL Offset 2.58 m

Tubing ID mm  
Tubing OD mm  
Tubing Depth(Log KB) m  
Tubing Depth(TVD KB) m  
Casing ID mm  
Casing OD 139.7 mm  
Casing Depth(Log KB) 970.00 m  
Casing Depth(TVD KB) 818.03 m  
PBTD(Log KB) m  
PBTD(TVD KB) m



# Pressure Survey Report

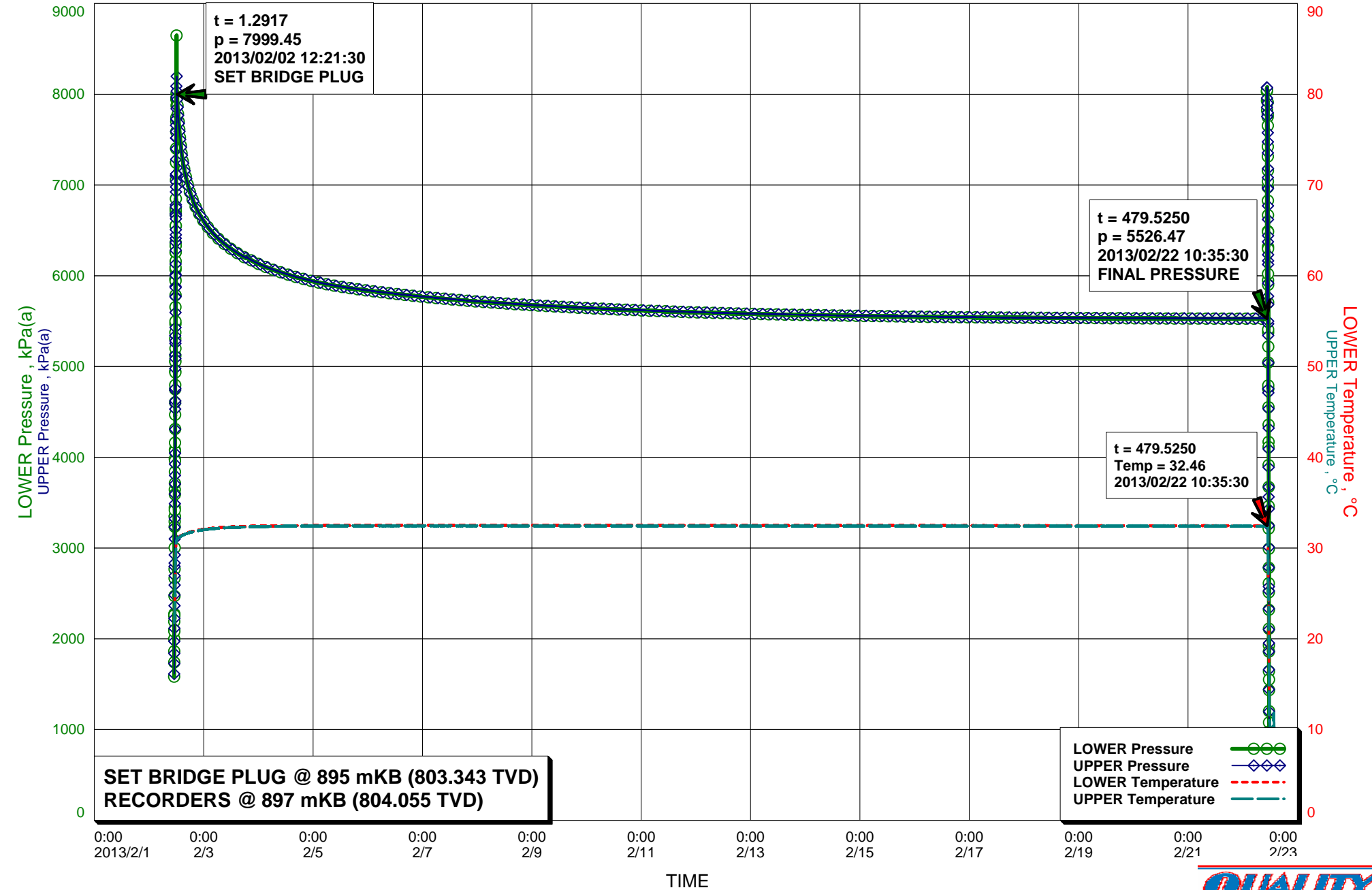
## Test Information

Well Name	TUNDRA DALY SINCLAIR PROV HZNTL A8D-29-10-28
Unique Well ID	103/08-29-010-28W1/00
Surface Location	9A-30 / A8D-29-10-28W1
Well License Number	9210
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Test Type	RESERVOIR PRESSURE SURVEY
Formation	BAKKEN
Pool	
Well Type Indicator	Horizontal
Test/Prod. Interval Top KB (Log)	970.00 m
Test/Prod. Interval Base KB (Log)	2368.00 m
MPP(Log KB)	1669.00 m
Test/Prod Interval Top KB (TVD)	818.03 m
Test/Prod. Interval Base m KB (TVD)	821.12 m
MPP(TVD KB)	819.58 m
Date/Time Gauge on Bottom	2013/02/02 12:21:00
Date/Time Gauge Off Bottom	2013/02/22 10:35:30
Time/Date Well Shut-In	2013/02/23 12:21:30
Tubing Pressure Initial	kPa(a)
Casing Pressure Initial	kPa(a)
Tubing Pressure: Final	kPa(a)
Casing Pressure: Final	kPa(a)
Last Measured Pressure at Run Depth	5526.47 kPa(a)
Reservoir Temperature	32.46 °C
Service Company	Quality Wireline Services Ltd.
Representative	IVORY HERMAN
Prepared By	DOLLCO Well Data Services
Qualified By	RICK DOLL
Report Date	2013/03/04

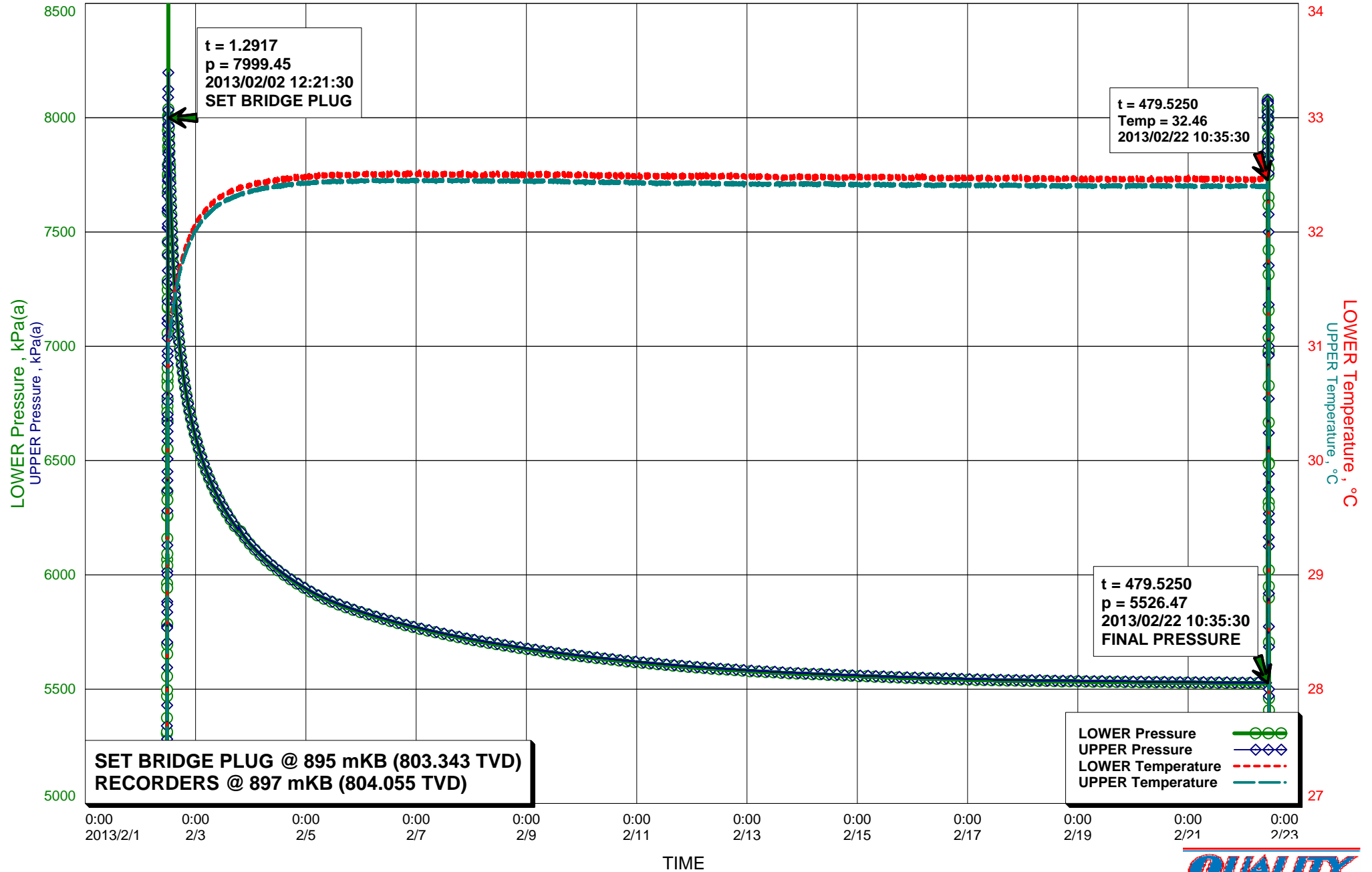
RECORDERS RUN BELOW A BRIDGE PLUG, THEN PULLED BY A SERVICE RIG



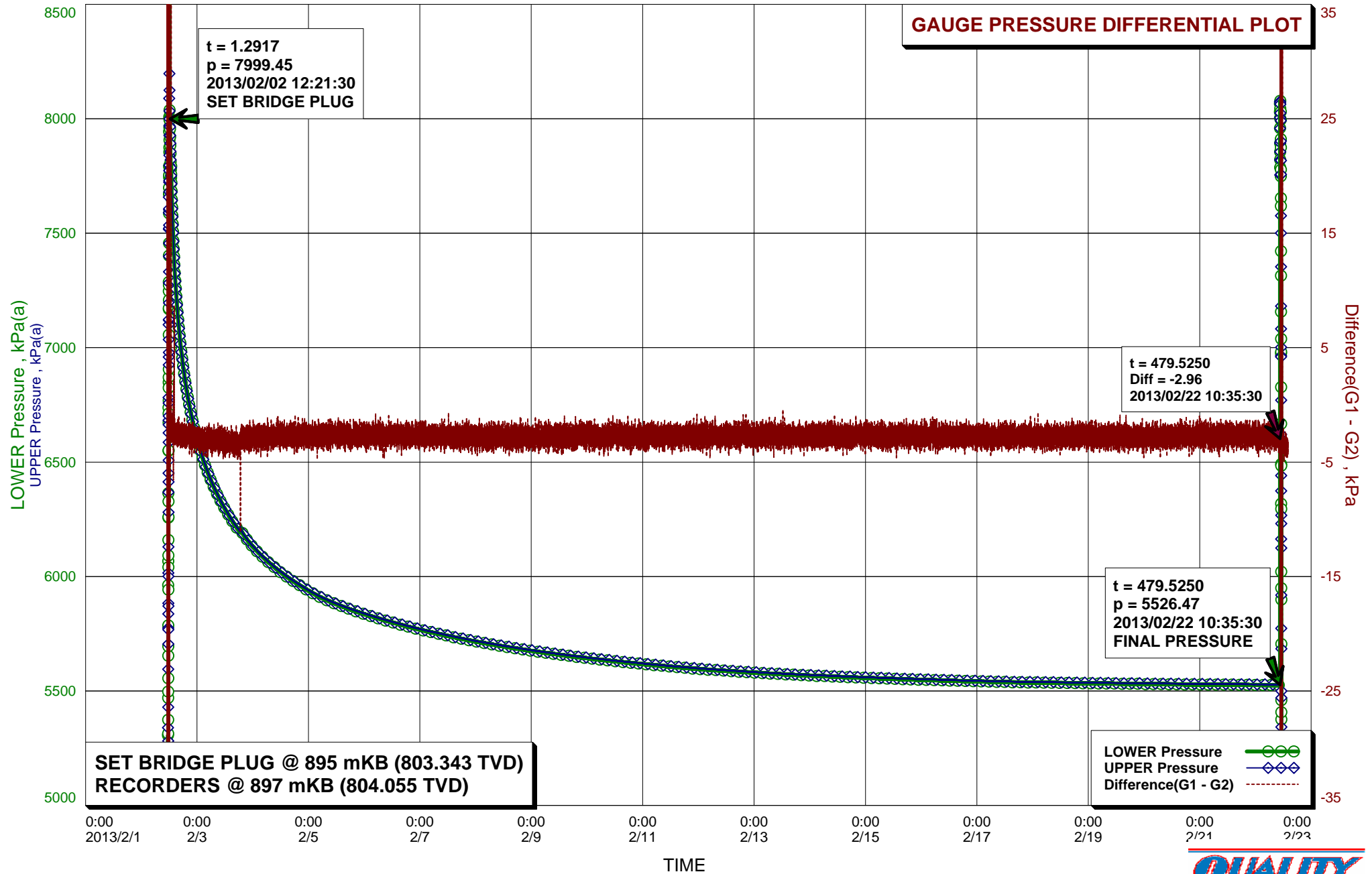
# RESERVOIR PRESSURE SURVEY



# RESERVOIR PRESSURE SURVEY



# RESERVOIR PRESSURE SURVEY





# Recorder Information

Company Name	TUNDRA OIL & GAS PARTNERSHIP
Unique Well ID	103/08-29-010-28W1/00
Well Name	TUNDRA DALY SINCLAIR PROV HZNTL A8D-29-10-28
Formation	BAKKEN
Start Test Date	2013/02/02
Final Test Date	2013/02/22

## Gauge 1

Gauge Name	LOWER	Gauge Type	ELECTRONIC
Gauge Serial Number	VNL	Gauge Manufacturer	REAL TIME MEASUREMENTS
Run Depth (Log KB)	897.00 m	Gauge Model	KC3 STRAIN
Date of Last Calibration	2012/10/21	Maximum Recorder Range	20680.00 kPa
Gauge Start Date	2013/02/02	Gauge Start Time	11:04:00
Gauge Stop Date	2013/02/22	Gauge Stop Time	14:00:00
Date Gauge On Bottom	2013/02/02	Time Gauge On Bottom	12:21:00
Date Gauge Off Bottom	2013/02/22	Time Gauge Off Bottom	10:35:30

## Gauge 2

Gauge Name	UPPER	Gauge Type	ELECTRONIC
Gauge Serial Number	VNG	Gauge Manufacturer	REAL TIME MEASUREMENTS
Run Depth (Log KB)	896.70 m	Gauge Model	KC3 STRAIN
Date of Last Calibration	2012/10/21	Maximum Recorder Range	20680.00 kPa
Gauge Start Date	2013/02/02	Gauge Start Time	11:04:00
Gauge Stop Date	2013/02/22	Gauge Stop Time	14:00:00
Date Gauge On Bottom	2013/02/02	Time Gauge On Bottom	12:21:00
Date Gauge Off Bottom	2013/02/22	Time Gauge Off Bottom	10:35:30

## RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
1	2013/02/02	11:04:00	0.0000	1582.70	21.80	0.0000	1612.94	21.75
2	2013/02/02	11:04:00	0.0000	RIH, ACTIVATE RECORDRS S/N: VNL(L) & VNG(U)				
3	2013/02/02	11:04:30	0.0083	2093.68	21.85	0.0083	1656.16	21.76
4	2013/02/02	12:21:00	1.2833	7999.81	31.10	1.2833	7999.71	31.04
5	2013/02/02	12:21:00	1.2833	RECORDERS ON BOTTOM @ 897 mKB (804.055 TVD)				
6	2013/02/02	12:21:30	1.2917	7999.45	31.10	1.2917	7995.35	31.04
7	2013/02/02	12:21:30	1.2917	SET BRIDGE PLUG @ 895 mKB (803.343 TVD)				
8	2013/02/02	12:22:00	1.3000	7955.45	31.10	1.3000	7964.39	31.05
9	2013/02/02	13:04:30	2.0083	7683.60	31.20	2.0000	7688.48	31.14
10	2013/02/02	15:04:30	4.0083	7226.71	31.50	4.0000	7230.32	31.44
11	2013/02/02	17:04:30	6.0083	6997.35	31.69	6.0000	7001.14	31.64
12	2013/02/02	19:05:00	8.0167	6842.57	31.84	8.0000	6846.43	31.78
13	2013/02/02	21:05:00	10.0167	6727.28	31.94	10.0000	6731.47	31.89
14	2013/02/02	23:05:00	12.0167	6637.01	32.03	12.0000	6641.04	31.98
15	2013/02/03	01:05:00	14.0167	6561.73	32.11	14.0000	6565.74	32.05
16	2013/02/03	03:05:00	16.0167	6497.37	32.16	16.0000	6501.67	32.11
17	2013/02/03	05:05:00	18.0167	6441.97	32.21	18.0000	6445.36	32.16
18	2013/02/03	07:05:00	20.0167	6393.44	32.25	20.0000	6397.72	32.19
19	2013/02/03	09:05:00	22.0167	6351.03	32.28	22.0000	6354.63	32.23
20	2013/02/03	11:05:00	24.0167	6312.79	32.31	24.0000	6315.63	32.26
21	2013/02/03	13:05:00	26.0167	6276.90	32.33	26.0000	6280.30	32.28
22	2013/02/03	15:05:00	28.0167	6243.66	32.34	28.0000	6247.15	32.29
23	2013/02/03	17:05:00	30.0167	6213.50	32.38	30.0000	6218.19	32.31
24	2013/02/03	19:05:00	32.0167	6200.29	32.39	32.0000	6203.10	32.33
25	2013/02/03	21:05:00	34.0167	6167.73	32.40	34.0000	6170.77	32.34
26	2013/02/03	23:05:00	36.0167	6142.07	32.40	36.0000	6144.70	32.34
27	2013/02/04	01:05:00	38.0167	6119.30	32.43	38.0000	6122.24	32.36
28	2013/02/04	03:05:00	40.0167	6098.10	32.43	40.0000	6101.02	32.38
29	2013/02/04	05:05:00	42.0167	6078.80	32.44	42.0000	6080.93	32.38
30	2013/02/04	07:05:00	44.0167	6060.47	32.44	44.0000	6063.12	32.39
31	2013/02/04	09:05:00	46.0167	6043.01	32.45	46.0000	6046.38	32.38
32	2013/02/04	11:05:00	48.0167	6026.78	32.45	48.0000	6029.57	32.40
33	2013/02/04	13:05:00	50.0167	6011.51	32.46	50.0000	6013.34	32.40
34	2013/02/04	15:05:00	52.0167	5996.65	32.47	52.0000	5999.86	32.41
35	2013/02/04	17:05:00	54.0167	5982.30	32.47	54.0000	5985.06	32.41
36	2013/02/04	19:05:00	56.0167	5969.36	32.47	56.0000	5971.38	32.42
37	2013/02/04	21:05:00	58.0167	5955.37	32.48	58.0000	5959.00	32.41
38	2013/02/04	23:05:00	60.0167	5943.51	32.49	60.0000	5946.37	32.43
39	2013/02/05	01:05:00	62.0167	5931.78	32.48	62.0000	5934.73	32.42
40	2013/02/05	03:05:30	64.0250	5921.06	32.48	64.0000	5922.71	32.43

LOWER Serial Number: VNL Start Date: 2013/02/02 11:04:00 Run Depth: 897.00

UPPER Serial Number: VNG Start Date: 2013/02/02 11:04:00 Run Depth: 896.70

Print Filter: Print every 2 hour

**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
41	2013/02/05	05:05:30	66.0250	5910.22	32.50	66.0000	5912.56	32.43
42	2013/02/05	07:05:30	68.0250	5900.63	32.50	68.0000	5903.43	32.44
43	2013/02/05	09:05:30	70.0250	5891.16	32.49	70.0000	5893.95	32.44
44	2013/02/05	11:05:30	72.0250	5883.58	32.50	72.0000	5885.74	32.44
45	2013/02/05	13:05:30	74.0250	5874.67	32.51	74.0000	5877.58	32.44
46	2013/02/05	15:05:30	76.0250	5866.51	32.50	76.0000	5869.62	32.44
47	2013/02/05	17:05:30	78.0250	5860.06	32.51	78.0000	5862.65	32.44
48	2013/02/05	19:05:30	80.0250	5852.37	32.49	80.0000	5855.95	32.46
49	2013/02/05	21:05:30	82.0250	5845.69	32.49	82.0000	5848.82	32.45
50	2013/02/05	23:05:30	84.0250	5839.15	32.50	84.0000	5841.71	32.44
51	2013/02/06	01:05:30	86.0250	5833.45	32.51	86.0000	5834.82	32.45
52	2013/02/06	03:05:30	88.0250	5826.35	32.51	88.0000	5828.84	32.45
53	2013/02/06	05:05:30	90.0250	5820.60	32.50	90.0000	5822.86	32.45
54	2013/02/06	07:05:30	92.0250	5813.98	32.51	92.0000	5816.69	32.44
55	2013/02/06	09:05:30	94.0250	5808.57	32.50	94.0000	5811.49	32.45
56	2013/02/06	11:05:30	96.0250	5802.58	32.51	96.0000	5805.31	32.45
57	2013/02/06	13:05:30	98.0250	5797.16	32.51	98.0000	5799.61	32.45
58	2013/02/06	15:05:30	100.0250	5791.43	32.52	100.0000	5794.56	32.45
59	2013/02/06	17:05:30	102.0250	5785.54	32.50	102.0000	5787.91	32.44
60	2013/02/06	19:05:30	104.0250	5780.46	32.51	104.0000	5783.51	32.45
61	2013/02/06	21:05:30	106.0250	5775.58	32.51	106.0000	5778.14	32.45
62	2013/02/06	23:05:30	108.0250	5770.34	32.51	108.0000	5773.04	32.45
63	2013/02/07	01:05:30	110.0250	5765.28	32.50	110.0000	5769.08	32.45
64	2013/02/07	03:05:30	112.0250	5760.95	32.51	112.0000	5763.45	32.45
65	2013/02/07	05:05:30	114.0250	5756.19	32.49	114.0000	5759.33	32.45
66	2013/02/07	07:05:30	116.0250	5752.01	32.50	116.0000	5754.50	32.45
67	2013/02/07	09:05:30	118.0250	5746.50	32.50	118.0000	5750.21	32.45
68	2013/02/07	11:05:30	120.0250	5743.09	32.49	120.0000	5744.81	32.44
69	2013/02/07	13:05:30	122.0250	5738.78	32.51	122.0000	5741.51	32.44
70	2013/02/07	15:05:30	124.0250	5733.88	32.50	124.0000	5736.88	32.44
71	2013/02/07	17:05:30	126.0250	5729.55	32.50	126.0000	5733.09	32.45
72	2013/02/07	19:06:00	128.0333	5725.64	32.51	128.0000	5729.01	32.45
73	2013/02/07	21:06:00	130.0333	5721.80	32.52	130.0000	5725.17	32.45
74	2013/02/07	23:06:00	132.0333	5717.40	32.49	132.0000	5720.37	32.44
75	2013/02/08	01:06:00	134.0333	5714.19	32.50	134.0000	5716.72	32.44
76	2013/02/08	03:06:00	136.0333	5710.82	32.50	136.0000	5713.10	32.45
77	2013/02/08	05:06:00	138.0333	5707.12	32.51	138.0000	5709.17	32.44
78	2013/02/08	07:06:00	140.0333	5703.51	32.51	140.0000	5706.02	32.45
79	2013/02/08	09:06:00	142.0333	5700.01	32.49	142.0000	5702.79	32.44
80	2013/02/08	11:06:00	144.0333	5696.61	32.50	144.0000	5699.06	32.45

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## RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
81	2013/02/08	13:06:00	146.0333	5692.72	32.49	146.0000	5695.75	32.44
82	2013/02/08	15:06:00	148.0333	5689.20	32.50	148.0000	5692.72	32.45
83	2013/02/08	17:06:00	150.0333	5686.23	32.50	150.0000	5688.97	32.45
84	2013/02/08	19:06:00	152.0333	5683.23	32.51	152.0000	5685.90	32.44
85	2013/02/08	21:06:00	154.0333	5680.27	32.49	154.0000	5682.59	32.44
86	2013/02/08	23:06:00	156.0333	5676.50	32.50	156.0000	5679.55	32.45
87	2013/02/09	01:06:00	158.0333	5673.72	32.51	158.0000	5676.58	32.44
88	2013/02/09	03:06:00	160.0333	5670.09	32.49	160.0000	5673.30	32.45
89	2013/02/09	05:06:00	162.0333	5668.32	32.50	162.0000	5671.63	32.45
90	2013/02/09	07:06:00	164.0333	5665.40	32.49	164.0000	5668.18	32.45
91	2013/02/09	09:06:00	166.0333	5662.90	32.50	166.0000	5665.67	32.44
92	2013/02/09	11:06:00	168.0333	5659.77	32.50	168.0000	5662.20	32.44
93	2013/02/09	13:06:00	170.0333	5657.45	32.50	170.0000	5660.03	32.45
94	2013/02/09	15:06:00	172.0333	5654.68	32.50	172.0000	5656.65	32.44
95	2013/02/09	17:06:00	174.0333	5652.26	32.51	174.0000	5654.60	32.44
96	2013/02/09	19:06:00	176.0333	5649.33	32.50	176.0000	5651.34	32.43
97	2013/02/09	21:06:00	178.0333	5646.67	32.49	178.0000	5650.18	32.44
98	2013/02/09	23:06:00	180.0333	5644.02	32.50	180.0000	5647.15	32.44
99	2013/02/10	01:06:00	182.0333	5642.06	32.50	182.0000	5645.39	32.45
100	2013/02/10	03:06:00	184.0333	5639.86	32.49	184.0000	5643.19	32.44
101	2013/02/10	05:06:00	186.0333	5636.56	32.48	186.0000	5640.10	32.43
102	2013/02/10	07:06:00	188.0333	5635.13	32.49	188.0000	5637.55	32.44
103	2013/02/10	09:06:00	190.0333	5633.19	32.49	190.0000	5636.05	32.43
104	2013/02/10	11:06:00	192.0333	5630.67	32.49	192.0000	5634.17	32.44
105	2013/02/10	13:06:00	194.0333	5628.22	32.49	194.0000	5631.25	32.44
106	2013/02/10	15:06:00	196.0333	5626.41	32.50	196.0000	5629.48	32.43
107	2013/02/10	17:06:00	198.0333	5624.69	32.49	198.0000	5627.58	32.44
108	2013/02/10	19:06:00	200.0333	5622.59	32.49	200.0000	5625.28	32.43
109	2013/02/10	21:06:00	202.0333	5620.07	32.49	202.0000	5623.06	32.44
110	2013/02/10	23:06:00	204.0333	5618.56	32.50	204.0000	5620.72	32.44
111	2013/02/11	01:06:00	206.0333	5615.90	32.48	206.0000	5618.96	32.44
112	2013/02/11	03:06:00	208.0333	5613.66	32.49	208.0000	5617.34	32.43
113	2013/02/11	05:06:00	210.0333	5612.74	32.49	210.0000	5615.76	32.43
114	2013/02/11	07:06:00	212.0333	5609.98	32.49	212.0000	5613.81	32.42
115	2013/02/11	09:06:00	214.0333	5608.96	32.48	214.0000	5611.98	32.43
116	2013/02/11	11:06:00	216.0333	5607.06	32.47	216.0000	5610.40	32.42
117	2013/02/11	13:06:00	218.0333	5605.58	32.50	218.0000	5607.89	32.43
118	2013/02/11	15:06:00	220.0333	5604.15	32.48	220.0000	5606.93	32.43
119	2013/02/11	17:06:00	222.0333	5601.33	32.48	222.0000	5604.74	32.42
120	2013/02/11	19:06:00	224.0333	5600.11	32.50	224.0000	5602.76	32.43

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## RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
121	2013/02/11	21:06:00	226.0333	5598.78	32.48	226.0000	5602.24	32.44
122	2013/02/11	23:06:00	228.0333	5597.42	32.48	228.0000	5599.44	32.42
123	2013/02/12	01:06:00	230.0333	5594.98	32.48	230.0000	5598.13	32.43
124	2013/02/12	03:06:00	232.0333	5593.74	32.47	232.0000	5596.30	32.42
125	2013/02/12	05:06:00	234.0333	5592.68	32.49	234.0000	5594.48	32.43
126	2013/02/12	07:06:00	236.0333	5591.10	32.48	236.0000	5594.25	32.43
127	2013/02/12	09:06:00	238.0333	5590.08	32.48	238.0000	5592.39	32.42
128	2013/02/12	11:06:00	240.0333	5588.88	32.49	240.0000	5590.71	32.43
129	2013/02/12	13:06:00	242.0333	5587.45	32.50	242.0000	5588.84	32.42
130	2013/02/12	15:06:00	244.0333	5585.62	32.49	244.0000	5588.64	32.43
131	2013/02/12	17:06:00	246.0333	5584.23	32.49	246.0000	5587.15	32.42
132	2013/02/12	19:06:00	248.0333	5583.43	32.49	248.0000	5585.80	32.42
133	2013/02/12	21:06:00	250.0333	5581.42	32.49	250.0000	5584.60	32.42
134	2013/02/12	23:06:00	252.0333	5580.64	32.47	252.0000	5583.09	32.43
135	2013/02/13	01:06:00	254.0333	5579.41	32.48	254.0000	5581.65	32.42
136	2013/02/13	03:06:30	256.0417	5578.38	32.47	256.0000	5580.62	32.42
137	2013/02/13	05:06:30	258.0417	5577.35	32.49	258.0000	5579.38	32.42
138	2013/02/13	07:06:30	260.0417	5576.15	32.48	260.0000	5578.91	32.41
139	2013/02/13	09:06:30	262.0417	5574.50	32.48	262.0000	5578.21	32.42
140	2013/02/13	11:06:30	264.0417	5573.77	32.49	264.0000	5576.33	32.42
141	2013/02/13	13:06:30	266.0417	5572.41	32.47	266.0000	5575.79	32.43
142	2013/02/13	15:06:30	268.0417	5570.96	32.47	268.0000	5574.75	32.42
143	2013/02/13	17:06:30	270.0417	5570.03	32.48	270.0000	5573.61	32.41
144	2013/02/13	19:06:30	272.0417	5569.78	32.48	272.0000	5572.14	32.42
145	2013/02/13	21:06:30	274.0417	5569.21	32.49	274.0000	5570.92	32.43
146	2013/02/13	23:06:30	276.0417	5567.57	32.47	276.0000	5570.82	32.42
147	2013/02/14	01:06:30	278.0417	5567.43	32.48	278.0000	5569.72	32.42
148	2013/02/14	03:06:30	280.0417	5565.73	32.47	280.0000	5567.97	32.42
149	2013/02/14	05:06:30	282.0417	5565.44	32.47	282.0000	5567.78	32.40
150	2013/02/14	07:06:30	284.0417	5564.16	32.48	284.0000	5566.69	32.41
151	2013/02/14	09:06:30	286.0417	5563.14	32.47	286.0000	5566.24	32.41
152	2013/02/14	11:06:30	288.0417	5563.12	32.49	288.0000	5565.38	32.42
153	2013/02/14	13:06:30	290.0417	5561.95	32.47	290.0000	5564.35	32.42
154	2013/02/14	15:06:30	292.0417	5560.90	32.46	292.0000	5563.54	32.42
155	2013/02/14	17:06:30	294.0417	5559.63	32.48	294.0000	5563.36	32.42
156	2013/02/14	19:06:30	296.0417	5558.98	32.47	296.0000	5561.63	32.42
157	2013/02/14	21:06:30	298.0417	5558.26	32.47	298.0000	5560.82	32.42
158	2013/02/14	23:06:30	300.0417	5557.97	32.51	300.0000	5560.48	32.42
159	2013/02/15	01:06:30	302.0417	5557.06	32.47	302.0000	5559.62	32.42
160	2013/02/15	03:06:30	304.0417	5555.87	32.48	304.0000	5558.58	32.41

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## RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
161	2013/02/15	05:06:30	306.0417	5555.84	32.48	306.0000	5558.12	32.42
162	2013/02/15	07:06:30	308.0417	5554.83	32.48	308.0000	5557.33	32.40
163	2013/02/15	09:06:30	310.0417	5554.31	32.49	310.0000	5557.00	32.42
164	2013/02/15	11:06:30	312.0417	5552.79	32.48	312.0000	5556.22	32.41
165	2013/02/15	13:06:30	314.0417	5552.95	32.48	314.0000	5555.67	32.42
166	2013/02/15	15:06:30	316.0417	5551.98	32.47	316.0000	5554.66	32.42
167	2013/02/15	17:06:30	318.0417	5551.13	32.48	318.0000	5553.97	32.41
168	2013/02/15	19:06:30	320.0417	5550.65	32.47	320.0000	5552.99	32.40
169	2013/02/15	21:06:30	322.0417	5549.40	32.46	322.0000	5552.67	32.41
170	2013/02/15	23:06:30	324.0417	5549.59	32.48	324.0000	5551.77	32.41
171	2013/02/16	01:06:30	326.0417	5548.50	32.47	326.0000	5551.50	32.42
172	2013/02/16	03:06:30	328.0417	5547.48	32.47	328.0000	5550.30	32.41
173	2013/02/16	05:06:30	330.0417	5547.18	32.47	330.0000	5549.92	32.42
174	2013/02/16	07:06:30	332.0417	5546.60	32.47	332.0000	5548.92	32.42
175	2013/02/16	09:06:30	334.0417	5545.64	32.47	334.0000	5548.34	32.40
176	2013/02/16	11:06:30	336.0417	5545.52	32.47	336.0000	5548.16	32.41
177	2013/02/16	13:06:30	338.0417	5545.28	32.47	338.0000	5547.93	32.41
178	2013/02/16	15:06:30	340.0417	5544.30	32.47	340.0000	5547.21	32.41
179	2013/02/16	17:06:30	342.0417	5543.80	32.46	342.0000	5546.15	32.41
180	2013/02/16	19:06:30	344.0417	5542.61	32.47	344.0000	5545.86	32.41
181	2013/02/16	21:06:30	346.0417	5542.87	32.47	346.0000	5545.09	32.41
182	2013/02/16	23:06:30	348.0417	5542.19	32.47	348.0000	5544.92	32.41
183	2013/02/17	01:06:30	350.0417	5541.88	32.47	350.0000	5544.36	32.41
184	2013/02/17	03:06:30	352.0417	5540.95	32.48	352.0000	5543.34	32.41
185	2013/02/17	05:06:30	354.0417	5539.94	32.46	354.0000	5543.00	32.41
186	2013/02/17	07:06:30	356.0417	5539.89	32.47	356.0000	5543.04	32.40
187	2013/02/17	09:06:30	358.0417	5539.58	32.46	358.0000	5542.23	32.41
188	2013/02/17	11:06:30	360.0417	5539.07	32.47	360.0000	5542.42	32.40
189	2013/02/17	13:06:30	362.0417	5538.49	32.46	362.0000	5541.68	32.41
190	2013/02/17	15:06:30	364.0417	5538.86	32.46	364.0000	5541.17	32.41
191	2013/02/17	17:06:30	366.0417	5537.33	32.47	366.0000	5540.67	32.40
192	2013/02/17	19:06:30	368.0417	5537.82	32.47	368.0000	5540.31	32.40
193	2013/02/17	21:06:30	370.0417	5537.96	32.49	370.0000	5540.24	32.41
194	2013/02/17	23:06:30	372.0417	5536.52	32.47	372.0000	5539.79	32.41
195	2013/02/18	01:06:30	374.0417	5536.82	32.47	374.0000	5539.76	32.42
196	2013/02/18	03:06:30	376.0417	5536.44	32.47	376.0000	5539.52	32.41
197	2013/02/18	05:06:30	378.0417	5535.48	32.46	378.0000	5538.40	32.40
198	2013/02/18	07:06:30	380.0417	5535.85	32.47	380.0000	5538.75	32.41
199	2013/02/18	09:06:30	382.0417	5535.28	32.47	382.0000	5538.89	32.40
200	2013/02/18	11:06:30	384.0417	5535.67	32.46	384.0000	5538.36	32.40

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Print Filter: Print every 2 hour



**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
201	2013/02/18	13:06:30	386.0417	5534.83	32.46	386.0000	5538.08	32.41
202	2013/02/18	15:06:30	388.0417	5534.67	32.47	388.0000	5536.80	32.40
203	2013/02/18	17:06:30	390.0417	5534.45	32.45	390.0000	5536.98	32.40
204	2013/02/18	19:06:30	392.0417	5534.41	32.47	392.0000	5536.81	32.40
205	2013/02/18	21:06:30	394.0417	5533.24	32.47	394.0000	5536.25	32.40
206	2013/02/18	23:06:30	396.0417	5533.57	32.46	396.0000	5536.17	32.41
207	2013/02/19	01:06:30	398.0417	5533.23	32.46	398.0000	5536.51	32.40
208	2013/02/19	03:06:30	400.0417	5533.46	32.46	400.0000	5536.20	32.40
209	2013/02/19	05:06:30	402.0417	5532.97	32.46	402.0000	5534.82	32.40
210	2013/02/19	07:06:30	404.0417	5533.04	32.47	404.0000	5535.85	32.40
211	2013/02/19	09:06:30	406.0417	5532.06	32.46	406.0000	5534.74	32.40
212	2013/02/19	11:06:30	408.0417	5532.25	32.46	408.0000	5535.30	32.39
213	2013/02/19	13:06:30	410.0417	5531.39	32.46	410.0000	5534.35	32.40
214	2013/02/19	15:06:30	412.0417	5531.77	32.45	412.0000	5534.61	32.40
215	2013/02/19	17:06:30	414.0417	5531.31	32.45	414.0000	5533.75	32.40
216	2013/02/19	19:06:30	416.0417	5530.94	32.46	416.0000	5533.95	32.41
217	2013/02/19	21:06:30	418.0417	5530.50	32.46	418.0000	5533.45	32.40
218	2013/02/19	23:06:30	420.0417	5530.64	32.47	420.0000	5532.95	32.41
219	2013/02/20	01:06:30	422.0417	5530.85	32.46	422.0000	5532.75	32.41
220	2013/02/20	03:06:30	424.0417	5529.78	32.46	424.0000	5533.59	32.41
221	2013/02/20	05:06:30	426.0417	5529.91	32.45	426.0000	5533.04	32.40
222	2013/02/20	07:06:30	428.0417	5530.53	32.45	428.0000	5532.48	32.41
223	2013/02/20	09:06:30	430.0417	5529.62	32.45	430.0000	5532.01	32.40
224	2013/02/20	11:06:30	432.0417	5530.00	32.46	432.0000	5532.31	32.40
225	2013/02/20	13:06:30	434.0417	5529.84	32.47	434.0000	5531.75	32.40
226	2013/02/20	15:06:30	436.0417	5528.75	32.46	436.0000	5532.14	32.40
227	2013/02/20	17:06:30	438.0417	5529.03	32.46	438.0000	5531.26	32.40
228	2013/02/20	19:06:30	440.0417	5528.82	32.47	440.0000	5530.91	32.41
229	2013/02/20	21:06:30	442.0417	5528.24	32.47	442.0000	5531.24	32.40
230	2013/02/20	23:06:30	444.0417	5528.48	32.47	444.0000	5530.17	32.40
231	2013/02/21	01:06:30	446.0417	5528.30	32.47	446.0000	5530.59	32.40
232	2013/02/21	03:06:30	448.0417	5527.92	32.46	448.0000	5530.96	32.41
233	2013/02/21	05:06:30	450.0417	5527.82	32.47	450.0000	5530.59	32.40
234	2013/02/21	07:06:30	452.0417	5527.62	32.46	452.0000	5530.68	32.40
235	2013/02/21	09:06:30	454.0417	5527.81	32.45	454.0000	5529.62	32.40
236	2013/02/21	11:06:30	456.0417	5527.62	32.47	456.0000	5529.52	32.40
237	2013/02/21	13:06:30	458.0417	5526.61	32.45	458.0000	5529.69	32.40
238	2013/02/21	15:06:30	460.0417	5527.01	32.47	460.0000	5529.71	32.40
239	2013/02/21	17:06:30	462.0417	5527.37	32.46	462.0000	5529.27	32.39
240	2013/02/21	19:06:30	464.0417	5526.44	32.47	464.0000	5529.75	32.41

LOWER Serial Number: VNL Start Date: 2013/02/02 11:04:00 Run Depth: 897.00

UPPER Serial Number: VNG Start Date: 2013/02/02 11:04:00 Run Depth: 896.70

Print Filter: Print every 2 hour

**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
241	2013/02/21	21:06:30	466.0417	5526.57	32.45	466.0000	5529.16	32.41
242	2013/02/21	23:06:30	468.0417	5526.89	32.46	468.0000	5529.24	32.40
243	2013/02/22	01:06:30	470.0417	5525.70	32.45	470.0000	5528.74	32.40
244	2013/02/22	03:06:30	472.0417	5526.19	32.46	472.0000	5528.42	32.40
245	2013/02/22	05:06:30	474.0417	5525.93	32.45	474.0000	5529.19	32.40
246	2013/02/22	07:06:30	476.0417	5525.35	32.46	476.0000	5528.99	32.41
247	2013/02/22	09:06:30	478.0417	5525.50	32.44	478.0000	5528.33	32.40
248	2013/02/22	10:35:30	479.5250	5526.47	32.46	479.5250	5529.43	32.41
249	2013/02/22	10:35:30	479.5250	FINAL PRESSURE, UNSETTING BRIDGE PLUG.				
250	2013/02/22	10:36:00	479.5333	5525.94	32.46	479.5333	8075.41	32.45
251	2013/02/22	10:36:30	479.5417	8029.57	32.51	479.5417	8066.59	32.43
252	2013/02/22	10:36:30	479.5417	BRIDGE PLUG UNSET				
253	2013/02/22	10:37:00	479.5500	8066.00	32.48	479.5500	8060.82	32.43
254	2013/02/22	10:59:00	479.9167	7911.20	31.66	479.9167	7894.82	31.48
255	2013/02/22	10:59:00	479.9167	PULL OUT OF HOLE				
256	2013/02/22	10:59:30	479.9250	7882.91	31.38	479.9250	7817.62	31.24
257	2013/02/22	11:06:30	480.0417	6490.88	29.10	480.0000	7181.72	29.52
258	2013/02/22	12:53:00	481.8167	110.57	6.10	481.8167	113.54	9.54
259	2013/02/22	12:53:00	481.8167	RECORDERS AT SURFACE				
260	2013/02/22	12:53:30	481.8250	110.35	6.09	481.8250	114.08	9.53
261	2013/02/22	13:06:30	482.0417	111.13	6.30	482.0000	113.94	9.66
262	2013/02/22	14:00:00	482.9333	110.32	6.05	482.9333	113.86	9.95

LOWER Serial Number: VNL Start Date: 2013/02/02 11:04:00 Run Depth: 897.00

UPPER Serial Number: VNG Start Date: 2013/02/02 11:04:00 Run Depth: 896.70

Print Filter: Print every 2 hour





DATE: February 23 <sup>rd</sup> - 27 <sup>th</sup> , 2013	COMPANY: Tundra Oil & Gas Partnership
WELLNAME: Daly Sinclair	ADDRESS: Virden, MB
LOCATION: (9-30) 8-29-10-28 W1	UWI: 103.08-29-010-28W1.00
FIELD: Daly Sinclair	FORMATION: Bakken
CO HQ REP: Craig Lane	PHONE: 1204 748 5894
FIELD REP: Scott Murray	PHONE: 1306 482 7216
REPORTS TO (NAME & EMAIL ADDRESS): Eric Bjornsson - eric.bjornsson@tundraoilandgas.com Tyler Routledge - tyler.routledge@tundraoilandgas.com Tim Howell - tim.howell@tundraoilandgas.com Craig Lane - craig.lane@tundraoilandgas.com Bill Jenkins - bill.jenkins@tundraoilandgas.com Adam Berke - adam.berke@tundraoilandgas.com	

STATUS: Oil well		TEST TYPE: Bridge Plug
ESTIMATED H2S CONTENT: <10 ppm		ESTIMATED CO2 CONTENT: <10 ppm
PRODUCING THROUGH: Tubing		SHUT IN TIME/DATE: See Description
KOP: 537 mKB	TVD: 821.59 mKB	LICENCE #: 9210
PBTD: N/A	TD: 2368 mKB	WELL TYPE: Horizontal
CASING SIZE: 177.8 mm	CSG WEIGHT: 34.23 / 29.76 kg/m	CSG DEPTH: 970 mKB
TUBING SIZE: N/A	TBG WEIGHT: N/A	TBG DEPTH: N/A
Elevations KB: 519.94 m	GRD: 517.36 m	CF: 4.10 m

#### PRODUCING INTERVAL

TYPE: Open Hole	SIZE: N/A	INTERVAL: 970 - 2368 mKB
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#### RECORDER INFORMATION

TOP S/N: 40428	FILE NAME: (9-30) 8-29-10-28 W1	RANGE: 0 - 20,680 kpa
BOTTOM S/N: 40420	FILE NAME: (9-30) 8-29-10-28 W1	RANGE: 0 - 20,680 kpa
TOP BATTERY S/N: N/A	BOTTOM BATTERY S/N: N/A	
CONNECT TIME: February 2 <sup>nd</sup> , 2013 11:01:00	DISCONNECT TIME: February 27 <sup>th</sup> , 2013 10:34:30	

SURFACE TEMP: -5	LEASE CONDITION: Good
WIRELINE OPERATOR: Ivory Herman	PHONE: 1306 371 5613
WIRELINE ASSISTANT: N/A	
DIRECTIONS: N/A	

#### DWG WELL HEAD PRESSURES:

TUBING (before survey): N/A	CASING (before survey): N/A
TUBING (after survey): N/A	CASING (after survey): N/A

FLUID LEVEL: N/A	RUN DEPTH: See Description
TIME ON BOTTOM: See Description	TIME OFF BOTTOM: See Description

#### GRADIENT STOPS

DEPTH mKB:	N/A	FROM:	N/A	UNTIL:	N/A
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COMMENTS: Tools were ran in the well on a bridge plug. Tools were than pulled by a service rig.

DESCRIPTION OF WORK DONE:

Tools were ran in the well on a bridge plug. Tools were than pulled by a service rig.

February 2<sup>nd</sup>, 2013

11:01:00 - Run in hole

12:21:00 - On bottom

12:21:30 - Bridge plug set @895 mKB

February 22<sup>nd</sup>, 2013

10:36:00 - FINAL STABLE BHP + BHT

10:36:30 - Bridge plug un-set

10:59:00 - POOH

12:53:30 - Surface

10:34:30 - Download data



## TUNDRA OIL & GAS PARTNERSHIP

TUNDRA DALY SINCLAIR PROV HZNTL A16A-29-10-28

102/16-29-010-28W1/0

LICENSE #: 9191

BAKKEN FORMATION

Open Hole: 946 – 2343 mKBMD

(819.18 – 817.27 TVD)

RESERVOIR PRESSURE SURVEY DATA  
JANUARY 28<sup>th</sup> – FEBRUARY 11<sup>th</sup>, 2013

Prepared by: **DOLLCO Well Data Services**  
e-mail: [dollco@shaw.ca](mailto:dollco@shaw.ca)

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

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

E-mail: [qualityw@sasktel.net](mailto: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) 748-5894
Site Contact	SCOTT MURRAY
Site Phone	(306) 482-7216

## Well Information

Well Name	TUNDRA DALY SINCLAIR PROV HZNTL A16A-29-10-28
Unique Well ID	102/16-29-010-28W1/00
Surface Location	9D-30 / A16A-29-10-28W1
Well License Number	9191
Well Type	Horizontal
Well Fluid Type	01 Oil
Field	DALY SINCLAIR

KB Elevation (SL)	519.32 m
CF Elevation (SL)	515.22 m
GL Elevation (SL)	515.22 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)	946.00 m
Casing Depth(TVD KB)	819.18 m
PBTD(Log KB)	m
PBTD(TVD KB)	m



# Pressure Survey Report

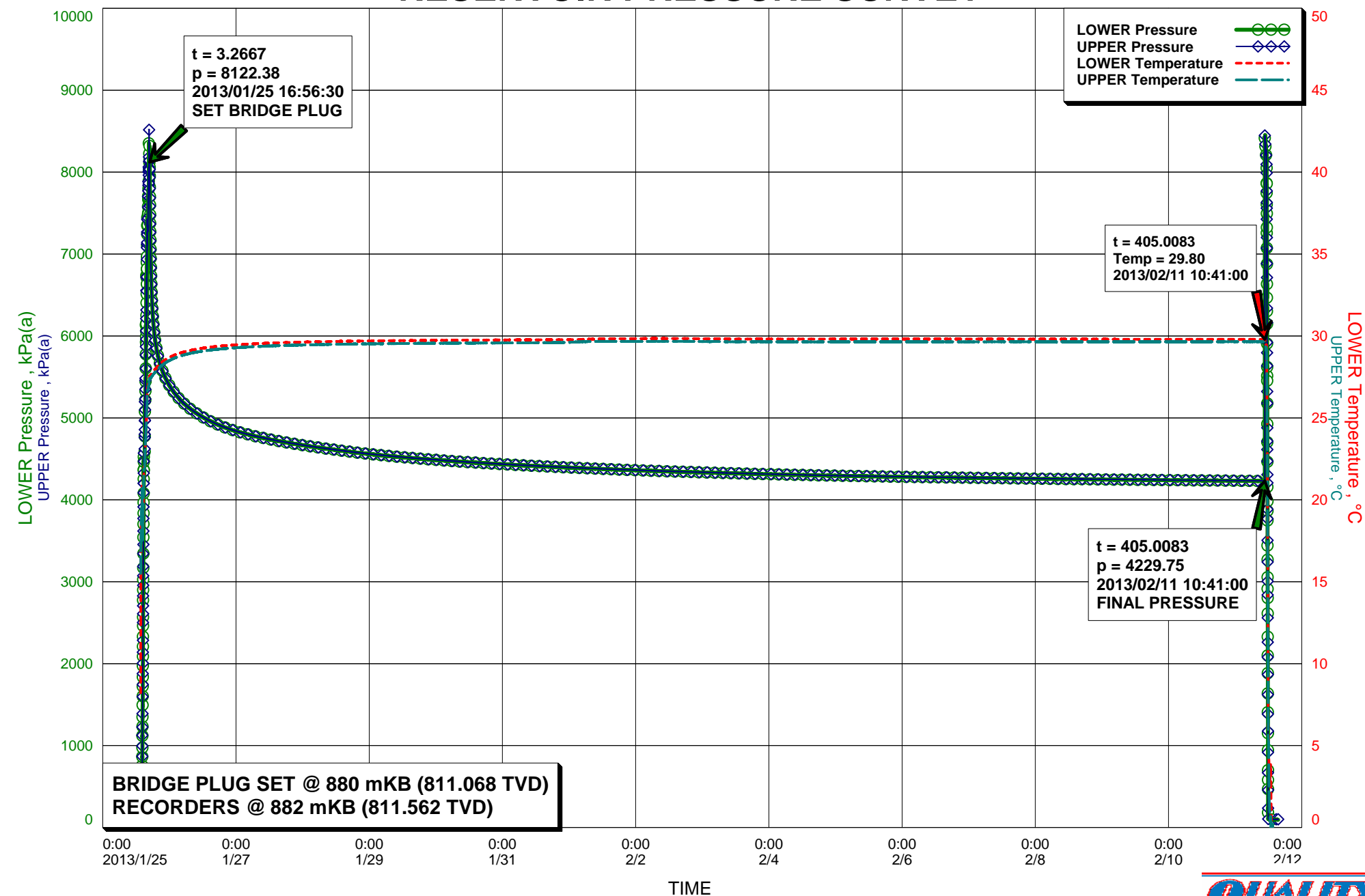
## Test Information

Well Name	TUNDRA DALY SINCLAIR PROV HZNTL A16A-29-10-28
Unique Well ID	102/16-29-010-28W1/00
Surface Location	9D-30 / A16A-29-10-28W1
Well License Number	9191
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Test Type	RESERVOIR PRESSURE SURVEY
Formation	BAKKEN
Pool	
Well Type Indicator	Horizontal
Test/Prod. Interval Top KB (Log)	946.00 m
Test/Prod. Interval Base KB (Log)	2343.00 m
MPP(Log KB)	1644.50 m
Test/Prod Interval Top KB (TVD)	819.18 m
Test/Prod. Interval Base m KB (TVD)	817.27 m
MPP(TVD KB)	818.22 m
Date/Time Gauge on Bottom	2013/01/25 16:48:30
Date/Time Gauge Off Bottom	2013/02/11 11:21:00
Time/Date Well Shut-In	2013/01/25 16:56:30
Tubing Pressure Initial	kPa(a)
Casing Pressure Initial	kPa(a)
Tubing Pressure: Final	kPa(a)
Casing Pressure: Final	kPa(a)
Last Measured Pressure at Run Depth	4229.75 kPa(a)
Reservoir Temperature	29.80 °C
Service Company	Quality Wireline Services Ltd.
Representative	IVORY HERMAN
Prepared By	DOLLCO Well Data Services
Qualified By	RICK DOLL
Report Date	2013/02/21

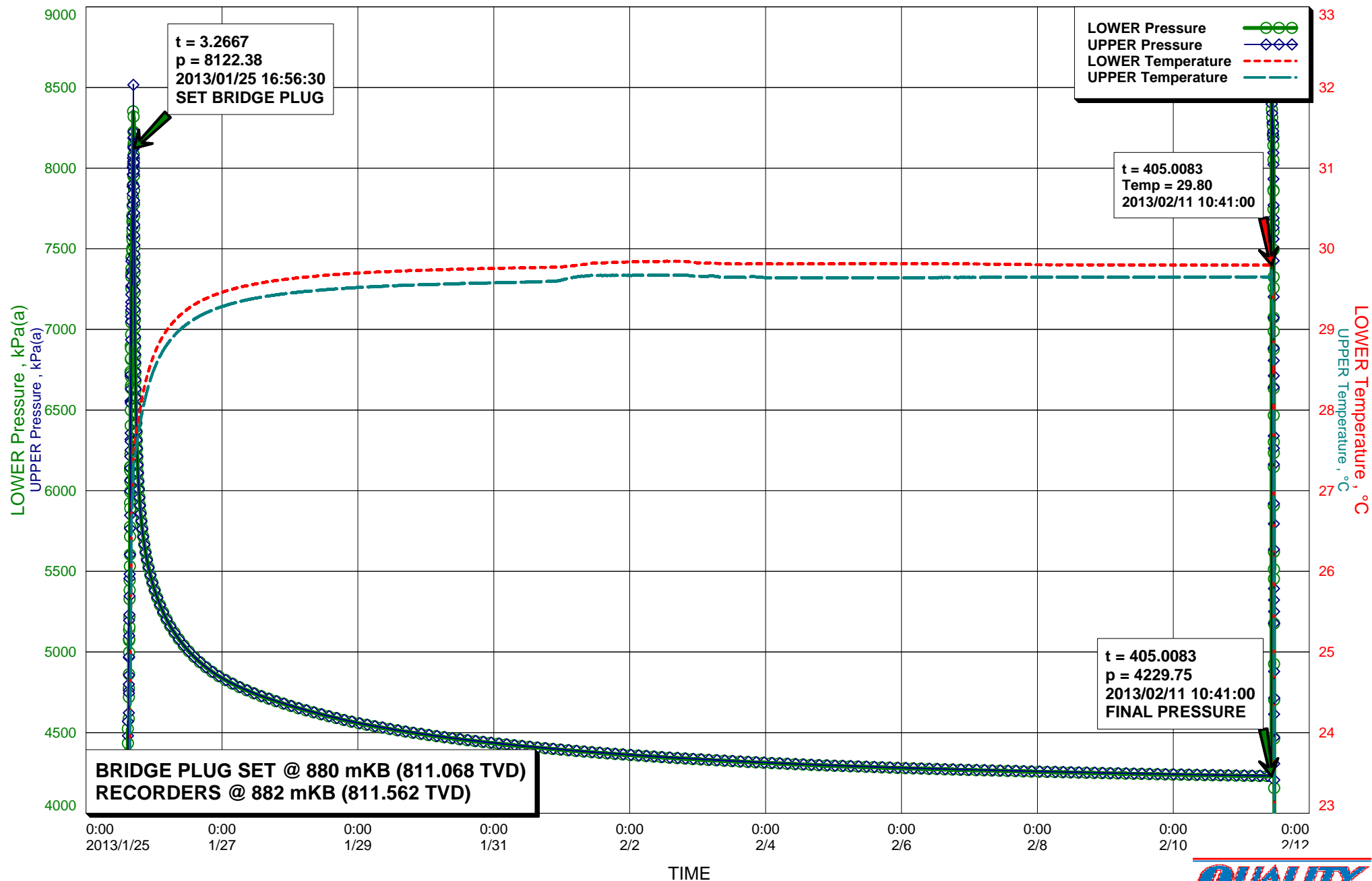
RECORDERS RUN BELOW A BRIDGE PLUG BY A DRILLING RIG,  
AND THEN PULLED BY A SERVICE RIG



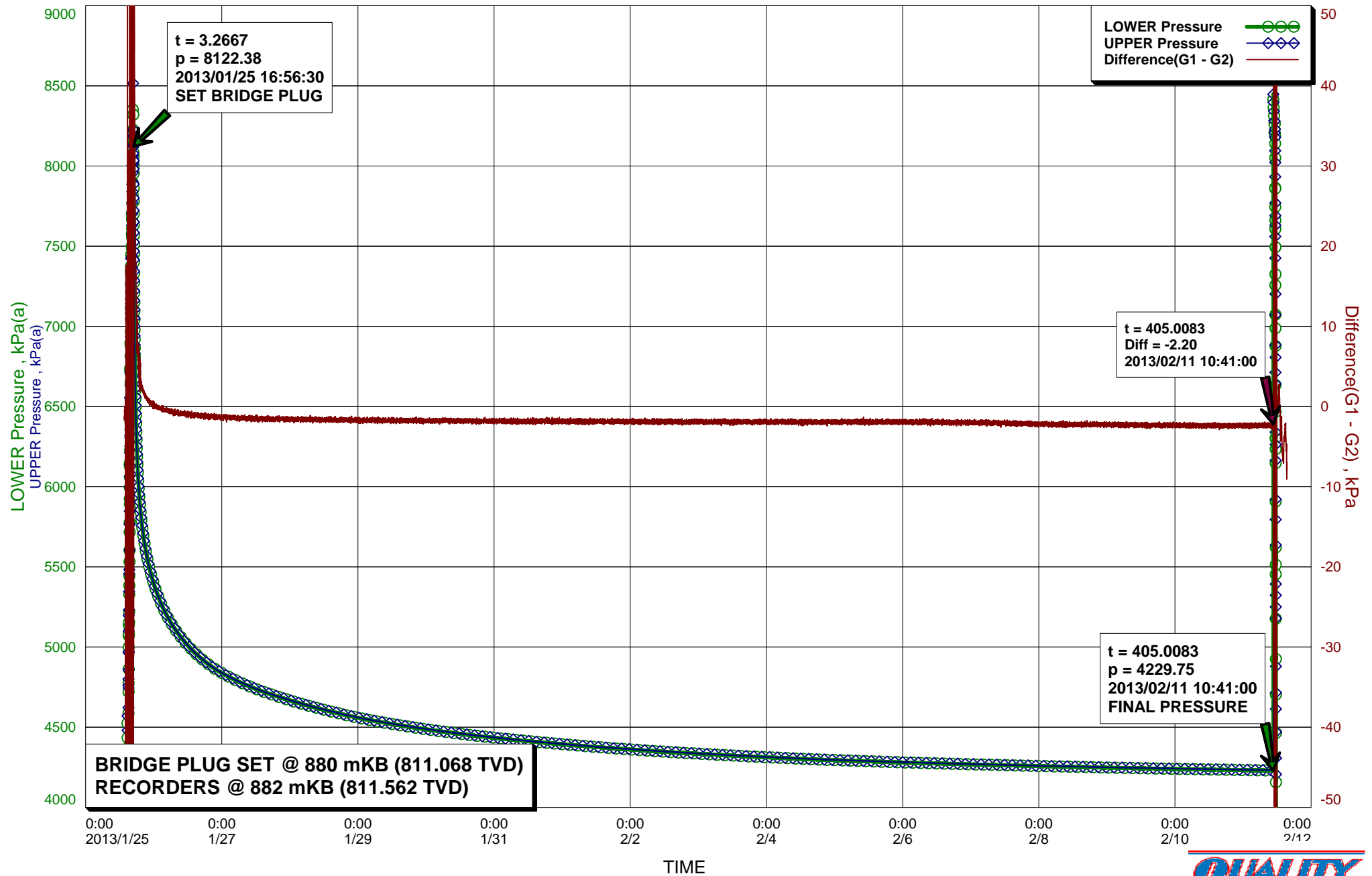
# RESERVOIR PRESSURE SURVEY



# RESERVOIR PRESSURE SURVEY



# GAUGE PRESSURE DIFFERENTIAL PLOT





# Recorder Information

Company Name	TUNDRA OIL & GAS PARTNERSHIP
Unique Well ID	102/16-29-010-28W1/00
Well Name	TUNDRA DALY SINCLAIR PROV HZNTL A16A-29-10-28
Formation	BAKKEN
Start Test Date	2013/01/25
Final Test Date	2013/02/11

## Gauge 1

Gauge Name	LOWER	Gauge Type	ELECTRONIC
Gauge Serial Number	40428	Gauge Manufacturer	REAL TIME MEASUREMENTS
Run Depth (Log KB)	882.00 m	Gauge Model	KC2 STRAIN
Date of Last Calibration	2012/06/13	Maximum Recorder Range	20680.00 kPa
Gauge Start Date	2013/01/25	Gauge Start Time	13:40:30
Gauge Stop Date	2013/02/11	Gauge Stop Time	15:30:00
Date Gauge On Bottom	2013/01/25	Time Gauge On Bottom	16:48:30
Date Gauge Off Bottom	2013/02/11	Time Gauge Off Bottom	11:21:00

## Gauge 2

Gauge Name	UPPER	Gauge Type	ELECTRONIC
Gauge Serial Number	40620	Gauge Manufacturer	REAL TIME MEASUREMENTS
Run Depth (Log KB)	881.70 m	Gauge Model	KC2 STRAIN
Date of Last Calibration	2012/06/13	Maximum Recorder Range	20680.00 kPa
Gauge Start Date	2013/01/25	Gauge Start Time	13:40:30
Gauge Stop Date	2013/02/11	Gauge Stop Time	15:30:00
Date Gauge On Bottom	2013/01/25	Time Gauge On Bottom	16:48:30
Date Gauge Off Bottom	2013/02/11	Time Gauge Off Bottom	11:21:00

## RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
1	2013/01/25	13:40:30	0.0000	246.58	8.22	0.0000	247.77	15.21
2	2013/01/25	13:40:30	0.0000	RIH, ACTIVATE RECORDERS S/N: 40628(L) & 40620(U)				
3	2013/01/25	13:41:00	0.0083	245.91	10.03	0.0083	247.60	15.50
4	2013/01/25	15:40:30	2.0000	6057.73	24.58	2.0000	6137.54	24.56
5	2013/01/25	16:48:30	3.1333	8115.21	27.47	3.1333	8112.26	27.33
6	2013/01/25	16:48:30	3.1333	RECORDERS ON BOTTOM @ 882 mKB (811.562 TVD)				
7	2013/01/25	16:49:00	3.1417	8113.88	27.47	3.1417	8112.11	27.33
8	2013/01/25	16:56:30	3.2667	8122.38	27.57	3.2667	7981.81	27.41
9	2013/01/25	16:56:30	3.2667	SET BRIDGE PLUG @ 880 mKB (811.068 TVD)				
10	2013/01/25	16:57:00	3.2750	8057.69	27.57	3.2750	7933.58	27.41
11	2013/01/25	17:41:00	4.0083	6482.28	27.71	4.0000	6472.30	27.52
12	2013/01/25	19:41:00	6.0083	5791.08	28.13	6.0000	5789.87	27.94
13	2013/01/25	21:41:00	8.0083	5558.75	28.44	8.0000	5558.31	28.25
14	2013/01/25	23:41:00	10.0083	5415.65	28.66	10.0000	5416.02	28.48
15	2013/01/26	01:41:00	12.0083	5312.06	28.82	12.0000	5312.49	28.64
16	2013/01/26	03:41:00	14.0083	5229.59	28.94	14.0000	5230.34	28.77
17	2013/01/26	05:41:00	16.0083	5162.97	29.04	16.0083	5163.62	28.86
18	2013/01/26	07:41:00	18.0083	5107.57	29.12	18.0083	5108.31	28.95
19	2013/01/26	09:41:00	20.0083	5058.64	29.19	20.0083	5059.61	29.01
20	2013/01/26	11:41:00	22.0083	5016.50	29.25	22.0083	5017.37	29.07
21	2013/01/26	13:41:00	24.0083	4978.94	29.30	24.0083	4980.02	29.12
22	2013/01/26	15:41:00	26.0083	4945.20	29.34	26.0083	4946.42	29.16
23	2013/01/26	17:41:00	28.0083	4914.86	29.37	28.0083	4916.17	29.19
24	2013/01/26	19:41:00	30.0083	4887.57	29.40	30.0083	4888.60	29.22
25	2013/01/26	21:41:00	32.0083	4862.33	29.43	32.0083	4863.43	29.25
26	2013/01/26	23:41:00	34.0083	4841.43	29.46	34.0083	4842.70	29.28
27	2013/01/27	01:41:00	36.0083	4821.74	29.48	36.0083	4823.28	29.30
28	2013/01/27	03:41:00	38.0083	4803.61	29.50	38.0083	4804.92	29.32
29	2013/01/27	05:41:00	40.0083	4785.82	29.52	40.0083	4787.39	29.34
30	2013/01/27	07:41:00	42.0083	4770.33	29.53	42.0083	4771.59	29.36
31	2013/01/27	09:41:00	44.0083	4755.30	29.55	44.0083	4756.65	29.37
32	2013/01/27	11:41:00	46.0083	4740.31	29.56	46.0083	4742.18	29.39
33	2013/01/27	13:41:00	48.0083	4727.19	29.58	48.0083	4728.81	29.40
34	2013/01/27	15:41:00	50.0083	4714.94	29.59	50.0083	4716.45	29.41
35	2013/01/27	17:41:00	52.0083	4702.95	29.60	52.0083	4704.60	29.42
36	2013/01/27	19:41:00	54.0083	4691.29	29.61	54.0083	4692.69	29.43
37	2013/01/27	21:41:00	56.0083	4679.89	29.62	56.0083	4681.35	29.44
38	2013/01/27	23:41:00	58.0083	4668.97	29.63	58.0083	4670.38	29.45
39	2013/01/28	01:41:00	60.0083	4658.05	29.64	60.0083	4659.57	29.46
40	2013/01/28	03:41:00	62.0083	4647.83	29.64	62.0083	4649.38	29.46

LOWER Serial Number: 40428 Start Date: 2013/01/25 13:40:30 Run Depth: 882.00

UPPER Serial Number: 40620 Start Date: 2013/01/25 13:40:30 Run Depth: 881.70

Print Filter: Print every 2 hour

## RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
41	2013/01/28	05:41:30	64.0167	4637.91	29.65	64.0167	4639.36	29.47
42	2013/01/28	07:41:30	66.0167	4628.17	29.66	66.0167	4629.97	29.48
43	2013/01/28	09:41:30	68.0167	4618.95	29.66	68.0167	4620.56	29.48
44	2013/01/28	11:41:30	70.0167	4609.87	29.67	70.0167	4611.44	29.49
45	2013/01/28	13:41:30	72.0167	4601.08	29.67	72.0167	4602.72	29.50
46	2013/01/28	15:41:30	74.0167	4592.60	29.68	74.0167	4594.33	29.50
47	2013/01/28	17:41:30	76.0167	4583.42	29.69	76.0167	4585.09	29.50
48	2013/01/28	19:41:30	78.0167	4575.39	29.69	78.0167	4577.10	29.51
49	2013/01/28	21:41:30	80.0167	4567.58	29.69	80.0167	4569.19	29.51
50	2013/01/28	23:41:30	82.0167	4560.10	29.70	82.0167	4561.93	29.52
51	2013/01/29	01:41:30	84.0167	4553.04	29.70	84.0167	4554.60	29.52
52	2013/01/29	03:41:30	86.0167	4545.97	29.70	86.0167	4547.82	29.53
53	2013/01/29	05:41:30	88.0167	4539.55	29.71	88.0167	4541.18	29.53
54	2013/01/29	07:41:30	90.0167	4533.22	29.71	90.0167	4534.84	29.53
55	2013/01/29	09:41:30	92.0167	4526.97	29.72	92.0167	4528.59	29.53
56	2013/01/29	11:41:30	94.0167	4520.81	29.72	94.0167	4522.63	29.54
57	2013/01/29	13:41:30	96.0167	4514.63	29.72	96.0167	4516.29	29.54
58	2013/01/29	15:41:30	98.0167	4508.86	29.72	98.0167	4510.77	29.55
59	2013/01/29	17:41:30	100.0167	4503.25	29.72	100.0167	4505.26	29.55
60	2013/01/29	19:41:30	102.0167	4498.15	29.73	102.0167	4499.94	29.55
61	2013/01/29	21:41:30	104.0167	4492.90	29.73	104.0167	4494.59	29.55
62	2013/01/29	23:41:30	106.0167	4487.71	29.73	106.0167	4489.39	29.55
63	2013/01/30	01:41:30	108.0167	4482.68	29.74	108.0167	4484.22	29.56
64	2013/01/30	03:41:30	110.0167	4477.76	29.74	110.0167	4479.32	29.56
65	2013/01/30	05:41:30	112.0167	4472.83	29.74	112.0167	4474.69	29.56
66	2013/01/30	07:41:30	114.0167	4468.39	29.74	114.0167	4470.06	29.56
67	2013/01/30	09:41:30	116.0167	4463.59	29.74	116.0167	4465.51	29.57
68	2013/01/30	11:41:30	118.0167	4459.42	29.75	118.0167	4460.97	29.57
69	2013/01/30	13:41:30	120.0167	4454.77	29.75	120.0167	4456.70	29.57
70	2013/01/30	15:41:30	122.0167	4450.57	29.75	122.0167	4452.40	29.57
71	2013/01/30	17:41:30	124.0167	4446.43	29.75	124.0167	4448.27	29.57
72	2013/01/30	19:41:30	126.0167	4442.52	29.76	126.0167	4444.32	29.58
73	2013/01/30	21:41:30	128.0167	4438.59	29.75	128.0250	4440.34	29.58
74	2013/01/30	23:41:30	130.0167	4434.78	29.76	130.0250	4436.44	29.58
75	2013/01/31	01:41:30	132.0167	4430.66	29.76	132.0250	4432.70	29.58
76	2013/01/31	03:41:30	134.0167	4427.21	29.76	134.0250	4428.89	29.58
77	2013/01/31	05:41:30	136.0167	4423.55	29.76	136.0250	4425.46	29.58
78	2013/01/31	07:41:30	138.0167	4420.16	29.76	138.0250	4421.88	29.58
79	2013/01/31	09:41:30	140.0167	4416.56	29.76	140.0250	4418.54	29.59
80	2013/01/31	11:41:30	142.0167	4413.33	29.76	142.0250	4414.95	29.59

LOWER Serial Number: 40428 Start Date: 2013/01/25 13:40:30 Run Depth: 882.00

UPPER Serial Number: 40620 Start Date: 2013/01/25 13:40:30 Run Depth: 881.70

Print Filter: Print every 2 hour

**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
81	2013/01/31	13:41:30	144.0167	4409.70	29.76	144.0250	4411.68	29.59
82	2013/01/31	15:41:30	146.0167	4406.61	29.77	146.0250	4408.34	29.59
83	2013/01/31	17:41:30	148.0167	4403.28	29.77	148.0250	4405.13	29.59
84	2013/01/31	19:41:30	150.0167	4400.23	29.77	150.0250	4401.97	29.60
85	2013/01/31	21:41:30	152.0167	4397.10	29.77	152.0250	4398.96	29.60
86	2013/01/31	23:41:30	154.0167	4393.96	29.78	154.0250	4395.78	29.61
87	2013/02/01	01:41:30	156.0167	4390.96	29.78	156.0250	4392.63	29.63
88	2013/02/01	03:41:30	158.0167	4387.78	29.79	158.0250	4389.60	29.64
89	2013/02/01	05:41:30	160.0167	4384.96	29.80	160.0250	4386.48	29.65
90	2013/02/01	07:41:30	162.0167	4382.00	29.80	162.0250	4384.00	29.66
91	2013/02/01	09:41:30	164.0167	4379.20	29.81	164.0250	4381.17	29.67
92	2013/02/01	11:41:30	166.0167	4376.58	29.82	166.0250	4378.47	29.67
93	2013/02/01	13:41:30	168.0167	4373.64	29.82	168.0250	4375.59	29.67
94	2013/02/01	15:41:30	170.0167	4371.13	29.83	170.0250	4373.10	29.67
95	2013/02/01	17:41:30	172.0167	4368.64	29.83	172.0250	4370.35	29.67
96	2013/02/01	19:41:30	174.0167	4366.17	29.83	174.0250	4368.06	29.67
97	2013/02/01	21:41:30	176.0167	4363.78	29.83	176.0250	4365.53	29.67
98	2013/02/01	23:41:30	178.0167	4361.37	29.84	178.0250	4363.26	29.67
99	2013/02/02	01:41:30	180.0167	4358.86	29.84	180.0250	4360.71	29.67
100	2013/02/02	03:41:30	182.0167	4356.33	29.84	182.0250	4358.28	29.67
101	2013/02/02	05:41:30	184.0167	4354.06	29.84	184.0250	4355.94	29.67
102	2013/02/02	07:41:30	186.0167	4351.57	29.84	186.0250	4353.70	29.67
103	2013/02/02	09:41:30	188.0167	4349.39	29.84	188.0250	4351.20	29.67
104	2013/02/02	11:41:30	190.0167	4346.93	29.85	190.0250	4348.72	29.67
105	2013/02/02	13:41:30	192.0167	4344.71	29.84	192.0250	4346.64	29.67
106	2013/02/02	15:41:30	194.0167	4342.67	29.85	194.0250	4344.56	29.67
107	2013/02/02	17:41:30	196.0167	4340.54	29.84	196.0250	4342.26	29.67
108	2013/02/02	19:41:30	198.0167	4338.35	29.84	198.0250	4340.48	29.67
109	2013/02/02	21:41:30	200.0167	4336.60	29.83	200.0250	4338.54	29.67
110	2013/02/02	23:41:30	202.0167	4334.51	29.82	202.0250	4336.40	29.66
111	2013/02/03	01:41:30	204.0167	4332.70	29.82	204.0250	4334.54	29.66
112	2013/02/03	03:41:30	206.0167	4330.51	29.82	206.0250	4332.34	29.66
113	2013/02/03	05:41:30	208.0167	4328.88	29.82	208.0250	4330.37	29.66
114	2013/02/03	07:41:30	210.0167	4326.75	29.82	210.0250	4328.63	29.65
115	2013/02/03	09:41:30	212.0167	4325.01	29.81	212.0250	4326.81	29.65
116	2013/02/03	11:41:30	214.0167	4323.17	29.81	214.0250	4324.90	29.65
117	2013/02/03	13:41:30	216.0167	4321.15	29.81	216.0250	4323.16	29.65
118	2013/02/03	15:41:30	218.0167	4319.35	29.81	218.0250	4321.35	29.65
119	2013/02/03	17:41:30	220.0167	4317.54	29.81	220.0250	4319.55	29.64
120	2013/02/03	19:41:30	222.0167	4315.87	29.82	222.0250	4317.65	29.65

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UPPER Serial Number: 40620 Start Date: 2013/01/25 13:40:30 Run Depth: 881.70

Print Filter: Print every 2 hour

**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
121	2013/02/03	21:41:30	224.0167	4314.29	29.81	224.0250	4316.12	29.65
122	2013/02/03	23:41:30	226.0167	4312.53	29.81	226.0250	4314.38	29.64
123	2013/02/04	01:41:30	228.0167	4310.92	29.81	228.0250	4312.78	29.64
124	2013/02/04	03:41:30	230.0167	4309.24	29.81	230.0250	4311.12	29.64
125	2013/02/04	05:41:30	232.0167	4307.66	29.81	232.0250	4309.63	29.64
126	2013/02/04	07:41:30	234.0167	4306.19	29.81	234.0250	4308.14	29.64
127	2013/02/04	09:41:30	236.0167	4304.60	29.81	236.0250	4306.37	29.64
128	2013/02/04	11:41:30	238.0167	4303.03	29.81	238.0250	4304.93	29.64
129	2013/02/04	13:41:30	240.0167	4301.38	29.81	240.0250	4303.51	29.64
130	2013/02/04	15:41:30	242.0167	4299.93	29.81	242.0250	4301.63	29.64
131	2013/02/04	17:41:30	244.0167	4298.46	29.81	244.0250	4300.21	29.64
132	2013/02/04	19:41:30	246.0167	4296.76	29.81	246.0250	4298.93	29.64
133	2013/02/04	21:41:30	248.0167	4295.62	29.81	248.0250	4297.30	29.64
134	2013/02/04	23:41:30	250.0167	4294.54	29.81	250.0250	4296.28	29.64
135	2013/02/05	01:41:30	252.0167	4293.06	29.81	252.0250	4295.21	29.64
136	2013/02/05	03:41:30	254.0167	4292.17	29.82	254.0250	4294.17	29.64
137	2013/02/05	05:41:30	256.0167	4290.83	29.81	256.0250	4292.90	29.64
138	2013/02/05	07:41:30	258.0167	4289.78	29.82	258.0250	4291.80	29.64
139	2013/02/05	09:41:30	260.0167	4288.44	29.81	260.0250	4290.35	29.64
140	2013/02/05	11:41:30	262.0167	4287.34	29.81	262.0250	4289.35	29.64
141	2013/02/05	13:41:30	264.0167	4285.95	29.81	264.0250	4288.12	29.64
142	2013/02/05	15:41:30	266.0167	4284.88	29.82	266.0250	4286.78	29.64
143	2013/02/05	17:41:30	268.0167	4283.61	29.82	268.0250	4285.53	29.64
144	2013/02/05	19:41:30	270.0167	4282.33	29.82	270.0250	4284.21	29.64
145	2013/02/05	21:41:30	272.0167	4281.06	29.82	272.0250	4282.84	29.64
146	2013/02/05	23:41:30	274.0167	4280.01	29.81	274.0250	4281.95	29.64
147	2013/02/06	01:41:30	276.0167	4279.12	29.82	276.0250	4280.90	29.64
148	2013/02/06	03:41:30	278.0167	4278.19	29.82	278.0250	4279.88	29.64
149	2013/02/06	05:41:30	280.0167	4276.95	29.81	280.0250	4278.98	29.64
150	2013/02/06	07:41:30	282.0167	4275.93	29.82	282.0250	4278.00	29.64
151	2013/02/06	09:41:30	284.0167	4275.08	29.82	284.0250	4276.94	29.64
152	2013/02/06	11:41:30	286.0167	4274.02	29.81	286.0250	4275.86	29.64
153	2013/02/06	13:41:30	288.0167	4273.14	29.82	288.0250	4275.16	29.65
154	2013/02/06	15:41:30	290.0167	4272.09	29.81	290.0250	4274.33	29.64
155	2013/02/06	17:41:30	292.0167	4271.06	29.81	292.0250	4272.96	29.65
156	2013/02/06	19:41:30	294.0167	4269.99	29.82	294.0250	4272.05	29.64
157	2013/02/06	21:41:30	296.0167	4268.99	29.81	296.0250	4271.06	29.64
158	2013/02/06	23:41:30	298.0167	4268.06	29.81	298.0250	4270.08	29.64
159	2013/02/07	01:41:30	300.0167	4267.23	29.81	300.0250	4269.34	29.64
160	2013/02/07	03:41:30	302.0167	4266.39	29.81	302.0250	4268.50	29.65

LOWER Serial Number: 40428 Start Date: 2013/01/25 13:40:30 Run Depth: 882.00

UPPER Serial Number: 40620 Start Date: 2013/01/25 13:40:30 Run Depth: 881.70

Print Filter: Print every 2 hour



**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
161	2013/02/07	05:41:30	304.0167	4265.46	29.81	304.0250	4267.71	29.65
162	2013/02/07	07:41:30	306.0167	4264.74	29.81	306.0250	4266.83	29.65
163	2013/02/07	09:41:30	308.0167	4263.83	29.81	308.0250	4265.99	29.65
164	2013/02/07	11:41:30	310.0167	4262.92	29.81	310.0250	4265.02	29.65
165	2013/02/07	13:41:30	312.0167	4261.91	29.81	312.0250	4264.12	29.65
166	2013/02/07	15:41:30	314.0167	4261.16	29.80	314.0250	4263.46	29.65
167	2013/02/07	17:41:30	316.0167	4260.27	29.81	316.0250	4262.57	29.65
168	2013/02/07	19:41:30	318.0167	4259.36	29.81	318.0250	4261.41	29.65
169	2013/02/07	21:41:30	320.0167	4258.29	29.80	320.0250	4260.39	29.65
170	2013/02/07	23:41:30	322.0167	4257.35	29.80	322.0250	4259.35	29.65
171	2013/02/08	01:41:30	324.0167	4256.66	29.80	324.0250	4258.78	29.65
172	2013/02/08	03:41:30	326.0167	4255.67	29.80	326.0250	4257.94	29.65
173	2013/02/08	05:41:30	328.0167	4255.18	29.80	328.0250	4257.34	29.65
174	2013/02/08	07:41:30	330.0167	4254.50	29.80	330.0250	4256.57	29.65
175	2013/02/08	09:41:30	332.0167	4253.58	29.80	332.0250	4255.79	29.65
176	2013/02/08	11:41:30	334.0167	4252.60	29.80	334.0250	4254.76	29.65
177	2013/02/08	13:41:30	336.0167	4252.15	29.80	336.0250	4254.29	29.65
178	2013/02/08	15:41:30	338.0167	4251.24	29.80	338.0250	4253.55	29.65
179	2013/02/08	17:41:30	340.0167	4250.40	29.80	340.0250	4252.77	29.65
180	2013/02/08	19:41:30	342.0167	4249.77	29.80	342.0250	4251.81	29.65
181	2013/02/08	21:41:30	344.0167	4248.74	29.80	344.0250	4251.20	29.65
182	2013/02/08	23:41:30	346.0167	4248.02	29.80	346.0250	4250.15	29.65
183	2013/02/09	01:41:30	348.0167	4247.17	29.80	348.0250	4249.72	29.65
184	2013/02/09	03:41:30	350.0167	4246.73	29.80	350.0250	4248.87	29.65
185	2013/02/09	05:41:30	352.0167	4246.02	29.80	352.0250	4248.25	29.64
186	2013/02/09	07:41:30	354.0167	4245.21	29.80	354.0250	4247.64	29.65
187	2013/02/09	09:41:30	356.0167	4244.55	29.80	356.0250	4246.96	29.65
188	2013/02/09	11:41:30	358.0167	4243.85	29.80	358.0250	4246.09	29.65
189	2013/02/09	13:41:30	360.0167	4243.10	29.80	360.0250	4245.43	29.65
190	2013/02/09	15:41:30	362.0167	4242.58	29.80	362.0250	4244.83	29.65
191	2013/02/09	17:41:30	364.0167	4241.90	29.80	364.0250	4244.08	29.65
192	2013/02/09	19:41:30	366.0167	4241.12	29.80	366.0250	4243.45	29.65
193	2013/02/09	21:41:30	368.0167	4240.17	29.80	368.0250	4242.42	29.65
194	2013/02/09	23:41:30	370.0167	4239.51	29.80	370.0250	4241.81	29.65
195	2013/02/10	01:41:30	372.0167	4238.67	29.80	372.0250	4241.19	29.65
196	2013/02/10	03:41:30	374.0167	4238.22	29.80	374.0250	4240.54	29.65
197	2013/02/10	05:41:30	376.0167	4237.89	29.80	376.0250	4240.01	29.65
198	2013/02/10	07:41:30	378.0167	4236.96	29.79	378.0250	4239.57	29.65
199	2013/02/10	09:41:30	380.0167	4236.60	29.80	380.0250	4239.09	29.65
200	2013/02/10	11:41:30	382.0167	4236.08	29.80	382.0250	4238.17	29.65

LOWER Serial Number: 40428 Start Date: 2013/01/25 13:40:30 Run Depth: 882.00

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Print Filter: Print every 2 hour

TUNDRA OIL & GAS PARTNERSHIP  
102/16-29-010-28W1/00  
Start Test Date: 2013/01/25  
Final Test Date: 2013/02/11

TUNDRA DALY SINCLAIR PROV HZNTL A16A-29-10-28  
Formation: BAKKEN

**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
201	2013/02/10	13:41:30	384.0167	4235.32	29.80	384.0250	4237.62	29.65
202	2013/02/10	15:41:30	386.0167	4234.93	29.80	386.0250	4237.19	29.65
203	2013/02/10	17:41:30	388.0167	4234.19	29.80	388.0250	4236.70	29.65
204	2013/02/10	19:41:30	390.0167	4233.62	29.80	390.0250	4236.20	29.65
205	2013/02/10	21:41:30	392.0167	4233.03	29.80	392.0250	4235.61	29.65
206	2013/02/10	23:41:30	394.0167	4232.27	29.80	394.0250	4234.59	29.65
207	2013/02/11	01:41:30	396.0167	4231.96	29.80	396.0250	4234.11	29.65
208	2013/02/11	03:41:30	398.0167	4231.35	29.80	398.0250	4233.57	29.65
209	2013/02/11	05:41:30	400.0167	4230.80	29.80	400.0250	4233.33	29.65
210	2013/02/11	07:41:30	402.0167	4230.65	29.80	402.0250	4232.74	29.65
211	2013/02/11	09:41:30	404.0167	4229.85	29.80	404.0250	4232.27	29.65
212	2013/02/11	10:41:00	405.0083	4229.75	29.80	405.0083	4231.95	29.65
213	2013/02/11	10:41:00	405.0083	FINAL PRESSURE, UNSETTING BRIDGE PLUG				
214	2013/02/11	10:41:30	405.0167	8414.92	29.86	405.0167	8447.29	29.71
215	2013/02/11	10:41:30	405.0167	BRIDGE PLUG UNSET				
216	2013/02/11	10:42:00	405.0250	8428.64	29.86	405.0250	8419.80	29.73
217	2013/02/11	11:21:00	405.6750	8122.70	28.84	405.6750	8115.74	28.56
218	2013/02/11	11:21:00	405.6750	PULL OUT OF HOLE				
219	2013/02/11	11:21:30	405.6833	7864.41	28.73	405.6833	8021.97	28.43
220	2013/02/11	11:41:30	406.0167	3518.02	19.28	406.0250	3241.06	18.21
221	2013/02/11	12:20:00	406.6583	100.56	2.94	406.6583	100.96	1.43
222	2013/02/11	12:20:00	406.6583	RECORDERS AT SURFACE				
223	2013/02/11	12:20:30	406.6667	100.51	2.91	406.6667	100.85	1.37
224	2013/02/11	13:41:30	408.0167	97.78	-0.83	408.0250	101.34	-0.07
225	2013/02/11	15:30:00	409.8250	93.69	-4.81	409.8250	100.68	-3.98

LOWER Serial Number: 40428 Start Date: 2013/01/25 13:40:30 Run Depth: 882.00  
UPPER Serial Number: 40620 Start Date: 2013/01/25 13:40:30 Run Depth: 881.70  
Print Filter: Print every 2 hour



DATE: January 25 <sup>th</sup> - February 11 <sup>th</sup> , 2013	COMPANY: Tundra Oil & Gas Partnership
WELLNAME: Daly Sinclair	ADDRESS: Virden, MB
LOCATION: (9D-30) A16-29-10-28 W1	UWI:102.16-29-010-28W1.00
FIELD: Daly Sinclair	FORMATION: Bakken
CO HQ REP: Craig Lane	PHONE: 1204 748 5894
FIELD REP: Scott Murray	PHONE: 1306 482 7216
REPORTS TO (NAME & EMAIL ADDRESS): Eric Bjornsson - eric.bjornsson@tundraoilandgas.com Tyler Routledge - tyler.routledge@tundraoilandgas.com Tim Howell - tim.howell@tundraoilandgas.com Craig Lane - craig.lane@tundraoilandgas.com Bill Jenkins - bill.jenkins@tundraoilandgas.com Adam Berke - adam.berke@tundraoilandgas.com	

STATUS: Oil well		TEST TYPE: Bridge Plug
ESTIMATED H2S CONTENT: <10 ppm		ESTIMATED CO2 CONTENT: <10 ppm
PRODUCING THROUGH: Tubing		SHUT IN TIME/DATE: See Description
KOP: 637.80 mKB	TVD: 822.27 mKB	LICENCE #: 9191
PBTD: N/A	TD: mKB	WELL TYPE: Horizontal
CASING SIZE: 177.8 mm	CSG WEIGHT: 34.23 / 29.76 kg/m	CSG DEPTH: 946 mKB
TUBING SIZE: N/A	TBG WEIGHT: N/A	TBG DEPTH: N/A
Elevations KB: 519.32 m	GRD: 515.22 m	CF: 4.10 m

#### PRODUCING INTERVAL

TYPE: Open Hole	SIZE: N/A	INTERVAL: 946 - 2243 mKB
-----------------	-----------	--------------------------

#### RECORDER INFORMATION

TOP S/N: 40420	FILE NAME: (9-30) 16-29-10-28 W1	RANGE: 0 - 20,680 kpa
BOTTOM S/N: 40428	FILE NAME: (9-30) 16-29-10-28 W1	RANGE: 0 - 20,680 kpa
TOP BATTERY S/N: N/A	BOTTOM BATTERY S/N: N/A	
CONNECT TIME: January 25 <sup>th</sup> , 2013 13:40:30	DISCONNECT TIME: February 17 <sup>th</sup> , 2013 12:24:00	

SURFACE TEMP: -2	LEASE CONDITION: Good
WIRELINE OPERATOR: Ivory Herman	PHONE: 1306 371 5613
WIRELINE ASSISTANT: N/A	
DIRECTIONS: N/A	

#### DWG WELL HEAD PRESSURES:

TUBING (before survey): N/A	CASING (before survey): N/A
TUBING (after survey): N/A	CASING (after survey): N/A

FLUID LEVEL: N/A	RUN DEPTH: See Description
TIME ON BOTTOM: See Description	TIME OFF BOTTOM: See Description

#### GRADIENT STOPS

DEPTH mKB:	N/A	FROM:	N/A	UNTIL:	N/A
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COMMENTS: Tools were ran in the well by drilling rig to collect the BHP + BHT below a bridge plug. Tools were than pulled by a service rig.



DESCRIPTION OF WORK DONE:

Tools were ran in the well by a drilling rig to collect the BHP + BHT below a bridge plug. Tools were than pulled by a service rig.

January 25<sup>th</sup>, 2013

13:40:30 - Run in hole

16:48:30 - On bottom

16:50:30 - Bridge plug set @880 mKB

February 11<sup>th</sup>, 2013

10:41:00 - FINAL STABLE BHP + BHT

10:41:30 - Bridge plug un-set

11:21:00 - POOH

12:20:00 - Surface

February 17<sup>th</sup>, 2013

12:24:00 - Download data



## TUNDRA OIL & GAS PARTNERSHIP

TUNDRA DALY SINCLAIR PROV HZNTL A1A-32-10-28

102/01-32-010-28W1/0

LICENSE #: 9220

BAKKEN FORMATION

Open Hole: 971.5 - 2360 mKB

(830.51 – 821.37 TVD)

RESERVOIR PRESSURE SURVEY TEST DATA

FEBRUARY 9<sup>th</sup> – 23<sup>rd</sup>, 2013

Prepared by: **DOLLCO Well Data Services**  
e-mail: [dollco@shaw.ca](mailto: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](mailto:qualityw@sasktel.net)

# Pressure Survey Report

## Company Information

Company Name  
Contact  
e-mail  
Phone  
Site Contact  
Site Phone

TUNDRA OIL & GAS PARTNERSHIP  
CRAIG LANE  
craig.lane@tundraoilandgas.com  
(204) 748-5894  
MARK SKELTON  
(204) 851-5689

## Well Information

Well Name  
Unique Well ID  
Surface Location  
Well License Number  
Well Type  
Well Fluid Type  
Field

TUNDRA DALY SINCLAIR PROV HZNTL A1A-32-10-28  
102/01-32-010-28W1/00  
16D-30 / A1A-32-10-28W1  
9220  
Horizontal  
01 Oil  
DALY SINCLAIR

KB Elevation (SL)  
CF Elevation (SL)  
GL Elevation (SL)  
Distance from KB to CF (Log)  
KB-GL Offset

520.12 m  
516.02 m  
515.26 m  
4.10 m  
4.86 m

Tubing ID  
Tubing OD  
Tubing Depth(Log KB)  
Tubing Depth(TVD KB)  
Casing ID  
Casing OD  
Casing Depth(Log KB)  
Casing Depth(TVD KB)  
PBTD(Log KB)  
PBTD(TVD KB)

mm  
mm  
m  
m  
mm  
177.8 mm  
971.60 m  
830.51 m  
m  
m



# Pressure Survey Report

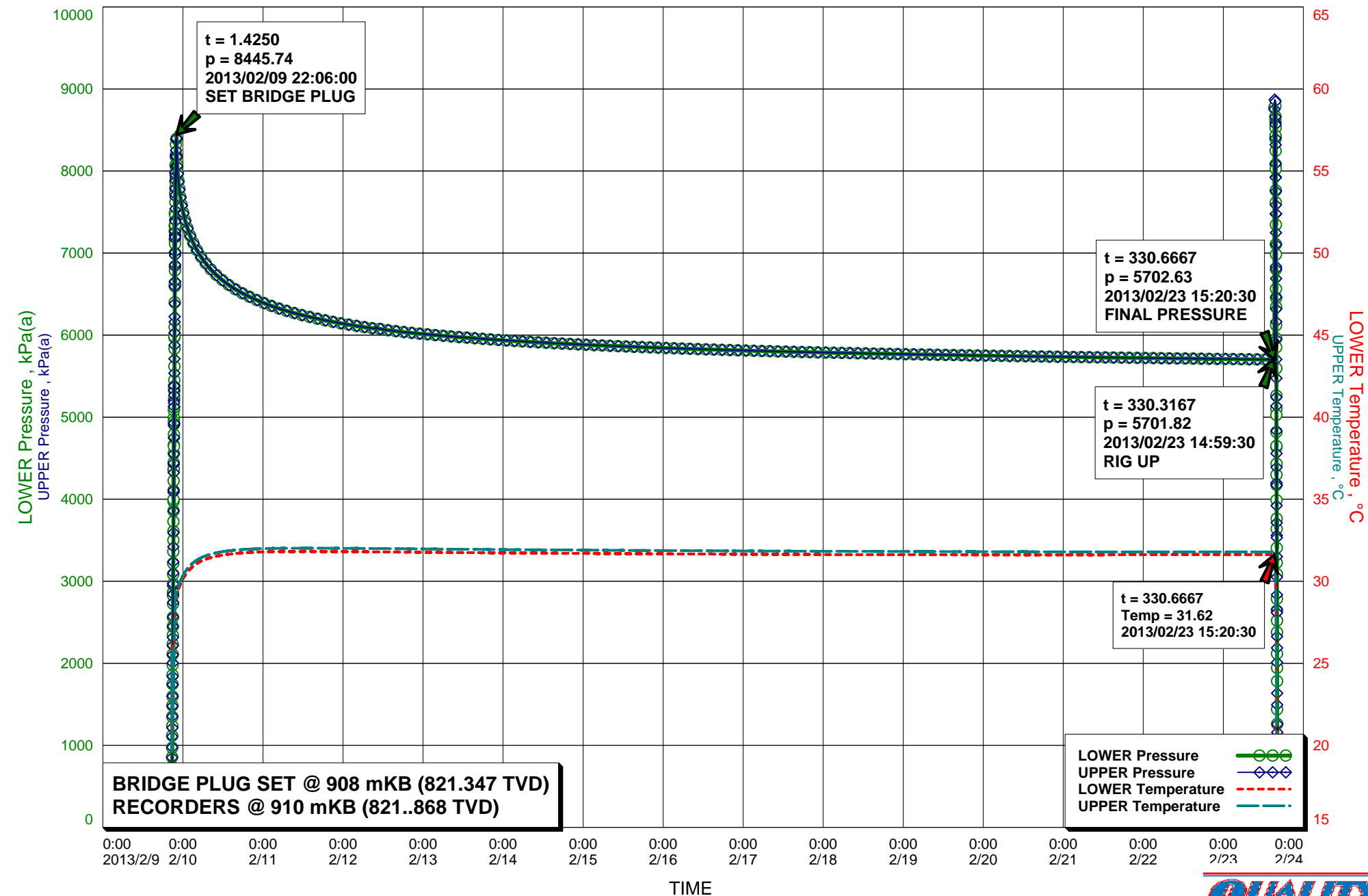
## Test Information

Well Name	TUNDRA DALY SINCLAIR PROV HZNTL A1A-32-10-28
Unique Well ID	102/01-32-010-28W1/00
Surface Location	16D-30 / A1A-32-10-28W1
Well License Number	9220
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Test Type	RESERVOIR PRESSURE SURVEY
Formation	BAKKEN
Pool	
Well Type Indicator	Horizontal
Test/Prod. Interval Top KB (Log)	971.50 m
Test/Prod. Interval Base KB (Log)	2360.00 m
MPP(Log KB)	1665.75 m
Test/Prod Interval Top KB (TVD)	830.51 m
Test/Prod. Interval Base m KB (TVD)	821.37 m
MPP(TVD KB)	825.94 m
Date/Time Gauge on Bottom	2013/02/09 22:02:30
Date/Time Gauge Off Bottom	2013/02/23 15:20:30
Time/Date Well Shut-In	2013/02/09 22:05:30
Tubing Pressure Initial	kPa(a)
Casing Pressure Initial	kPa(a)
Tubing Pressure: Final	kPa(a)
Casing Pressure: Final	kPa(a)
Last Measured Pressure at Run Depth	5702.63 kPa(a)
Reservoir Temperature	31.62 °C
Service Company	Quality Wireline Services Ltd.
Representative	IVORY HERMAN
Prepared By	DOLLCO Well Data Services
Qualified By	RICK DOLL
Report Date	2013/03/15

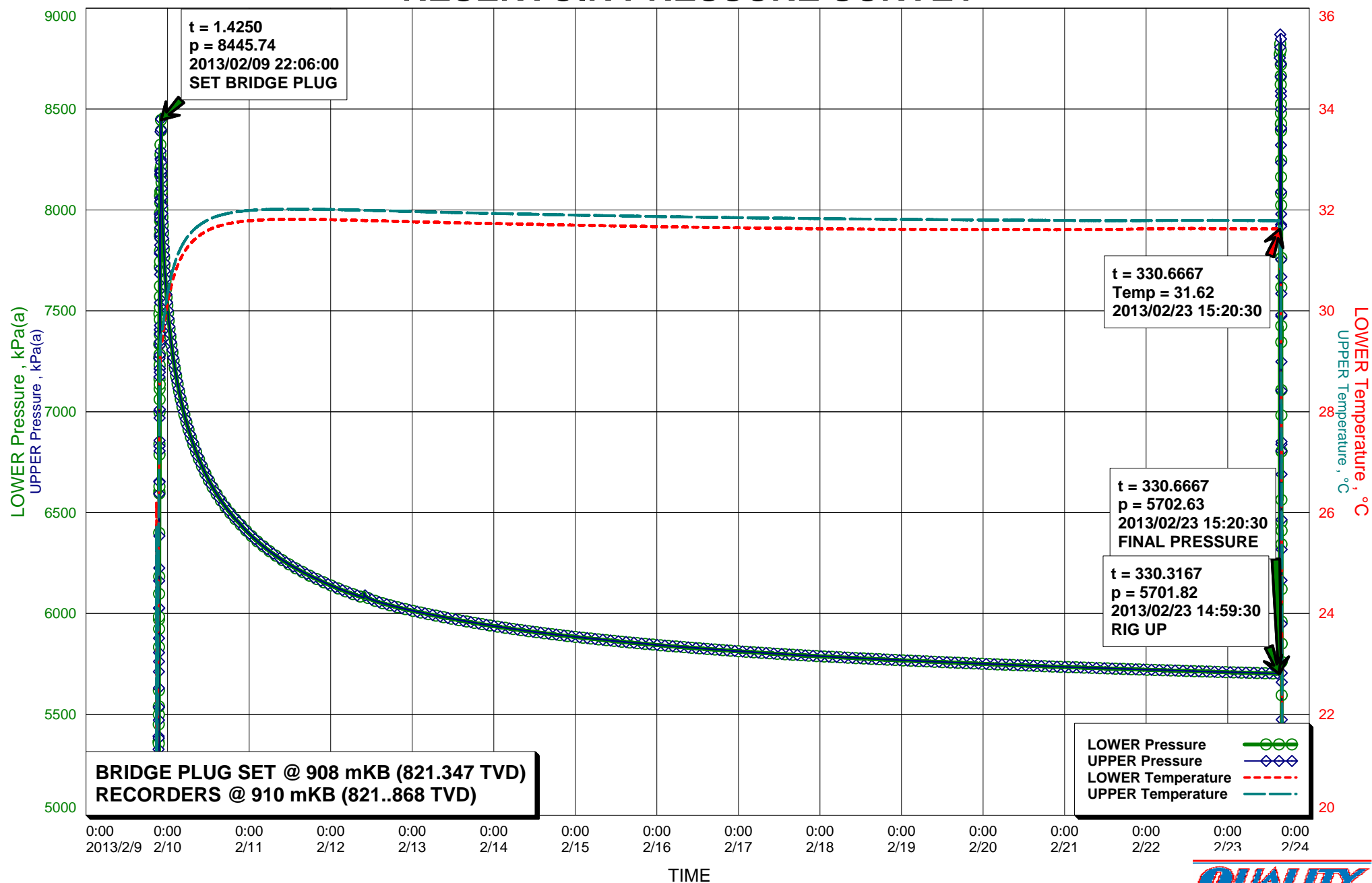
RECORDERS RUN BELOW A BRIDGE PLUG BY A DRILLING RIG,  
THEN PULLED BY A SERVICE RIG



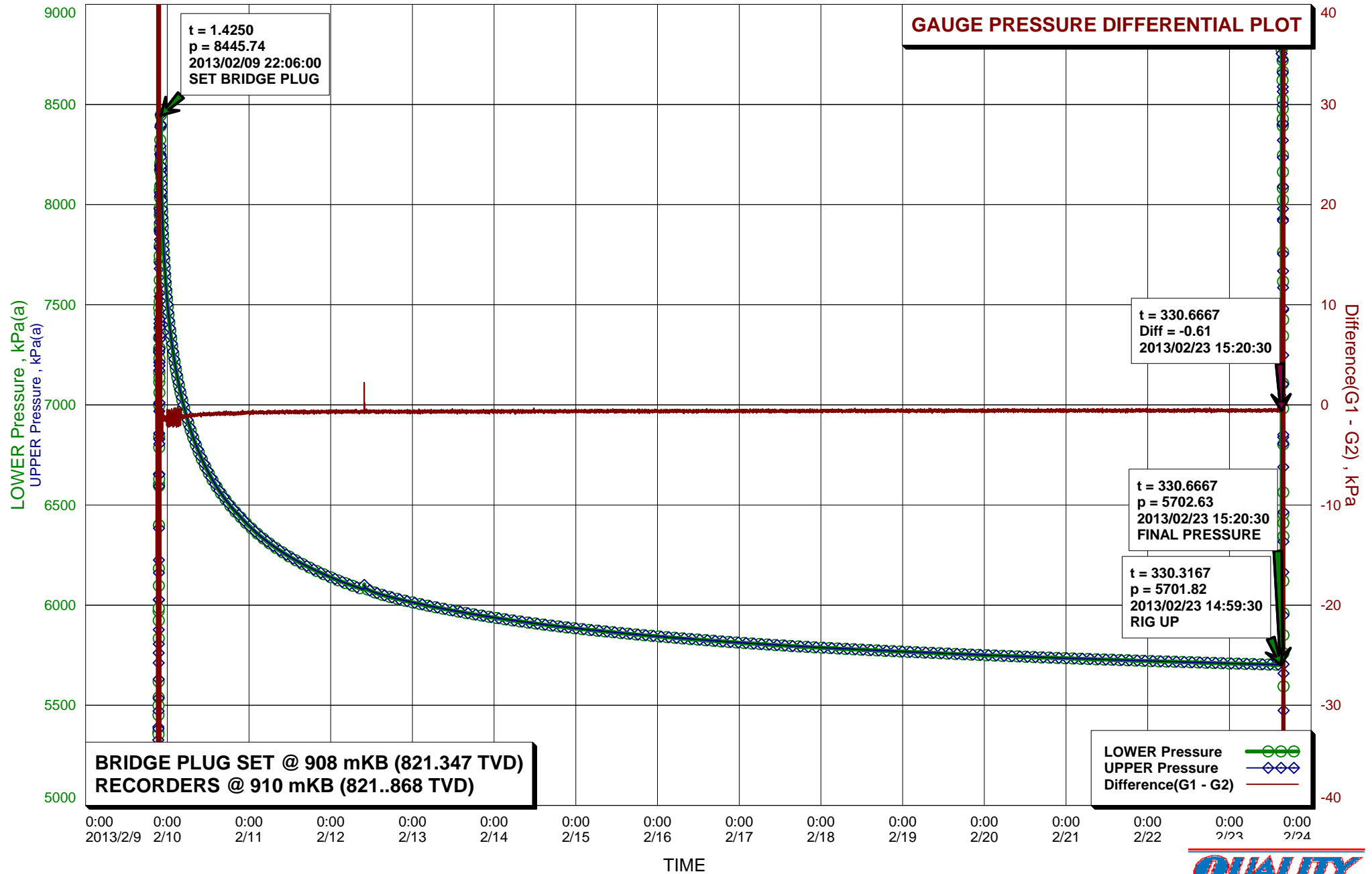
# RESERVOIR PRESSURE SURVEY



# RESERVOIR PRESSURE SURVEY



## RESERVOIR PRESSURE SURVEY



# Recorder Information

Company Name	TUNDRA OIL & GAS PARTNERSHIP
Unique Well ID	102/01-32-010-28W1/00
Well Name	TUNDRA DALY SINCLAIR PROV HZNTL A1A-32-10-28
Formation	BAKKEN
Start Test Date	2013/02/09
Final Test Date	2013/02/23

## Gauge 1

Gauge Name	LOWER	Gauge Type	ELECTRONIC
Gauge Serial Number	40464	Gauge Manufacturer	REAL TIME MEASUREMENTS
Run Depth (Log KB)	910.00 m	Gauge Model	KC2 STRAIN
Date of Last Calibration	2012/10/05	Maximum Recorder Range	20680.00 kPa
Gauge Start Date	2013/02/09	Gauge Start Time	20:40:30
Gauge Stop Date	2013/02/23	Gauge Stop Time	17:00:00
Date Gauge On Bottom	2013/02/09	Time Gauge On Bottom	22:02:30
Date Gauge Off Bottom	2013/02/23	Time Gauge Off Bottom	15:20:30

## Gauge 2

Gauge Name	UPPER	Gauge Type	ELECTRONIC
Gauge Serial Number	40454	Gauge Manufacturer	REAL TIME MEASUREMENTS
Run Depth (Log KB)	909.70 m	Gauge Model	KC2 STRAIN
Date of Last Calibration	2012/10/05	Maximum Recorder Range	20680.00 kPa
Gauge Start Date	2013/02/09	Gauge Start Time	20:40:30
Gauge Stop Date	2013/02/23	Gauge Stop Time	17:00:00
Date Gauge On Bottom	2013/02/09	Time Gauge On Bottom	22:02:30
Date Gauge Off Bottom	2013/02/23	Time Gauge Off Bottom	15:20:30



## RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
1	2013/02/09	20:40:30	0.0000	211.12	20.70	0.0000	206.97	19.60
2	2013/02/09	20:40:30	0.0000	RIH, ACTIVATE RECORDERS S/N: 40464(L) & 40454(U)				
3	2013/02/09	20:41:00	0.0083	210.63	21.13	0.0083	206.09	20.31
4	2013/02/09	22:02:30	1.3667	8176.53	29.31	1.3667	8184.39	29.51
5	2013/02/09	22:02:30	1.3667	RECORDERS ON BOTTOM @ 910 mKB (821.868 TVD)				
6	2013/02/09	22:03:00	1.3750	8178.59	29.32	1.3750	8180.21	29.51
7	2013/02/09	22:06:00	1.4250	8445.74	29.32	1.4250	8449.87	29.51
8	2013/02/09	22:06:00	1.4250	SET BRIDGE PLUG @ 908 mKB (821.347 TVD)				
9	2013/02/09	22:06:30	1.4333	8472.71	29.32	1.4333	8474.76	29.51
10	2013/02/09	22:40:30	2.0000	7877.48	29.52	2.0000	7878.51	29.72
11	2013/02/10	00:40:30	4.0000	7397.43	30.37	4.0000	7399.49	30.57
12	2013/02/10	02:40:30	6.0000	7163.12	30.85	6.0000	7164.24	31.06
13	2013/02/10	04:40:30	8.0000	7004.13	31.14	8.0000	7005.23	31.35
14	2013/02/10	06:40:30	10.0000	6883.66	31.32	10.0000	6884.82	31.53
15	2013/02/10	08:40:30	12.0000	6788.33	31.46	12.0000	6789.32	31.66
16	2013/02/10	10:40:30	14.0000	6709.81	31.55	14.0000	6710.82	31.76
17	2013/02/10	12:40:30	16.0000	6643.13	31.62	16.0000	6644.16	31.83
18	2013/02/10	14:40:30	18.0000	6586.05	31.67	18.0000	6586.93	31.88
19	2013/02/10	16:40:30	20.0000	6536.67	31.70	20.0000	6537.55	31.92
20	2013/02/10	18:40:30	22.0000	6492.66	31.74	22.0000	6493.56	31.94
21	2013/02/10	20:40:30	24.0000	6455.63	31.76	24.0000	6456.44	31.97
22	2013/02/10	22:40:30	26.0000	6418.19	31.78	26.0000	6418.89	31.98
23	2013/02/11	00:40:30	28.0000	6384.27	31.79	28.0000	6385.02	31.99
24	2013/02/11	02:40:30	30.0000	6353.75	31.80	30.0000	6354.56	32.00
25	2013/02/11	04:40:30	32.0000	6326.00	31.81	32.0000	6326.65	32.01
26	2013/02/11	06:40:30	34.0000	6300.30	31.81	34.0000	6301.08	32.01
27	2013/02/11	08:40:30	36.0000	6276.65	31.81	36.0000	6277.37	32.01
28	2013/02/11	10:40:30	38.0000	6254.60	31.81	38.0000	6255.27	32.02
29	2013/02/11	12:40:30	40.0000	6234.13	31.81	40.0000	6234.76	32.02
30	2013/02/11	14:40:30	42.0000	6215.02	31.81	42.0000	6215.76	32.02
31	2013/02/11	16:40:30	44.0000	6197.09	31.81	44.0000	6197.76	32.02
32	2013/02/11	18:40:30	46.0000	6180.13	31.81	46.0000	6180.86	32.01
33	2013/02/11	20:40:30	48.0000	6164.10	31.81	48.0000	6164.88	32.01
34	2013/02/11	22:40:30	50.0000	6148.68	31.80	50.0000	6149.50	32.01
35	2013/02/12	00:40:30	52.0000	6134.26	31.81	52.0000	6134.79	32.01
36	2013/02/12	02:40:30	54.0000	6120.40	31.80	54.0000	6121.12	32.01
37	2013/02/12	04:40:30	56.0000	6107.44	31.80	56.0000	6108.18	32.00
38	2013/02/12	06:40:30	58.0000	6095.21	31.80	58.0000	6095.89	32.00
39	2013/02/12	08:40:30	60.0000	6083.68	31.79	60.0000	6084.38	32.00
40	2013/02/12	10:40:30	62.0000	6079.67	31.79	62.0000	6080.25	31.99

LOWER Serial Number: 40464 Start Date: 2013/02/09 20:40:30 Run Depth: 910.00

UPPER Serial Number: 40454 Start Date: 2013/02/09 20:40:30 Run Depth: 909.70

Print Filter: Print every 2 hour

**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
41	2013/02/12	12:40:30	64.0000	6064.60	31.79	64.0000	6065.23	31.99
42	2013/02/12	14:40:30	66.0000	6053.73	31.78	66.0000	6054.35	31.99
43	2013/02/12	16:40:30	68.0000	6043.90	31.78	68.0000	6044.62	31.98
44	2013/02/12	18:40:30	70.0000	6034.98	31.77	70.0000	6035.61	31.98
45	2013/02/12	20:40:30	72.0000	6026.58	31.77	72.0000	6027.34	31.98
46	2013/02/12	22:40:30	74.0000	6018.69	31.77	74.0000	6019.28	31.97
47	2013/02/13	00:40:30	76.0000	6011.00	31.77	76.0000	6011.74	31.97
48	2013/02/13	02:40:30	78.0000	6003.52	31.76	78.0000	6004.32	31.96
49	2013/02/13	04:40:30	80.0000	5996.66	31.76	80.0000	5997.35	31.96
50	2013/02/13	06:40:30	82.0000	5989.82	31.75	82.0000	5990.48	31.96
51	2013/02/13	08:40:30	84.0000	5983.17	31.75	84.0000	5983.84	31.95
52	2013/02/13	10:40:30	86.0000	5976.61	31.75	86.0000	5977.35	31.95
53	2013/02/13	12:40:30	88.0000	5970.23	31.74	88.0000	5970.76	31.95
54	2013/02/13	14:40:30	90.0000	5963.95	31.74	90.0000	5964.70	31.94
55	2013/02/13	16:40:30	92.0000	5957.93	31.74	92.0000	5958.58	31.94
56	2013/02/13	18:40:30	94.0000	5952.04	31.74	94.0000	5952.77	31.94
57	2013/02/13	20:40:30	96.0000	5946.39	31.73	96.0000	5947.10	31.94
58	2013/02/13	22:40:30	98.0000	5940.91	31.73	98.0000	5941.54	31.93
59	2013/02/14	00:40:30	100.0000	5935.47	31.73	100.0000	5936.15	31.93
60	2013/02/14	02:40:30	102.0000	5930.32	31.72	102.0000	5930.96	31.93
61	2013/02/14	04:40:30	104.0000	5925.25	31.72	104.0000	5925.95	31.92
62	2013/02/14	06:40:30	106.0000	5920.56	31.72	106.0000	5921.08	31.92
63	2013/02/14	08:40:30	108.0000	5915.84	31.72	108.0000	5916.53	31.92
64	2013/02/14	10:40:30	110.0000	5911.12	31.71	110.0000	5911.75	31.92
65	2013/02/14	12:40:30	112.0000	5906.70	31.72	112.0000	5907.32	31.91
66	2013/02/14	14:40:30	114.0000	5902.20	31.71	114.0000	5902.98	31.91
67	2013/02/14	16:40:30	116.0000	5898.03	31.71	116.0000	5898.64	31.91
68	2013/02/14	18:40:30	118.0000	5893.96	31.70	118.0000	5894.55	31.91
69	2013/02/14	20:40:30	120.0000	5890.02	31.70	120.0000	5890.66	31.90
70	2013/02/14	22:40:30	122.0000	5886.11	31.70	122.0000	5886.82	31.90
71	2013/02/15	00:40:30	124.0000	5882.38	31.70	124.0000	5882.94	31.90
72	2013/02/15	02:40:30	126.0000	5878.63	31.69	126.0000	5879.17	31.89
73	2013/02/15	04:40:30	128.0000	5875.04	31.69	128.0000	5875.72	31.89
74	2013/02/15	06:40:30	130.0000	5871.58	31.69	130.0000	5872.25	31.89
75	2013/02/15	08:40:30	132.0000	5868.22	31.69	132.0000	5868.91	31.89
76	2013/02/15	10:40:30	134.0000	5864.81	31.68	134.0000	5865.51	31.89
77	2013/02/15	12:40:30	136.0000	5861.37	31.68	136.0000	5862.06	31.88
78	2013/02/15	14:40:30	138.0000	5858.10	31.68	138.0000	5858.68	31.88
79	2013/02/15	16:40:30	140.0000	5854.81	31.68	140.0000	5855.43	31.88
80	2013/02/15	18:40:30	142.0000	5851.72	31.68	142.0000	5852.29	31.88

LOWER Serial Number: 40464 Start Date: 2013/02/09 20:40:30 Run Depth: 910.00

UPPER Serial Number: 40454 Start Date: 2013/02/09 20:40:30 Run Depth: 909.70

Print Filter: Print every 2 hour

**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
81	2013/02/15	20:40:30	144.0000	5848.74	31.67	144.0000	5849.34	31.87
82	2013/02/15	22:40:30	146.0000	5845.77	31.67	146.0000	5846.37	31.87
83	2013/02/16	00:40:30	148.0000	5842.86	31.67	148.0000	5843.44	31.87
84	2013/02/16	02:40:30	150.0000	5839.91	31.66	150.0000	5840.54	31.87
85	2013/02/16	04:40:30	152.0000	5837.15	31.67	152.0000	5837.72	31.87
86	2013/02/16	06:40:30	154.0000	5834.37	31.66	154.0000	5835.05	31.86
87	2013/02/16	08:40:30	156.0000	5831.75	31.66	156.0000	5832.35	31.86
88	2013/02/16	10:40:30	158.0000	5829.09	31.66	158.0000	5829.88	31.86
89	2013/02/16	12:40:30	160.0000	5826.55	31.66	160.0000	5827.06	31.86
90	2013/02/16	14:40:30	162.0000	5823.84	31.65	162.0000	5824.47	31.86
91	2013/02/16	16:40:30	164.0000	5821.34	31.65	164.0000	5822.03	31.85
92	2013/02/16	18:40:30	166.0000	5818.85	31.65	166.0000	5819.41	31.85
93	2013/02/16	20:40:30	168.0000	5816.42	31.65	168.0000	5817.01	31.85
94	2013/02/16	22:40:30	170.0000	5814.04	31.65	170.0000	5814.72	31.85
95	2013/02/17	00:40:30	172.0000	5811.71	31.64	172.0000	5812.29	31.85
96	2013/02/17	02:40:30	174.0000	5809.49	31.65	174.0000	5810.03	31.84
97	2013/02/17	04:40:30	176.0000	5807.15	31.64	176.0000	5807.73	31.84
98	2013/02/17	06:40:30	178.0000	5804.99	31.64	178.0000	5805.57	31.84
99	2013/02/17	08:40:30	180.0000	5802.80	31.64	180.0000	5803.36	31.84
100	2013/02/17	10:40:30	182.0000	5800.70	31.64	182.0000	5801.20	31.84
101	2013/02/17	12:40:30	184.0000	5798.52	31.64	184.0000	5799.09	31.84
102	2013/02/17	14:40:30	186.0000	5796.41	31.63	186.0000	5796.95	31.84
103	2013/02/17	16:40:30	188.0000	5794.33	31.63	188.0000	5795.00	31.83
104	2013/02/17	18:40:30	190.0000	5792.50	31.63	190.0000	5792.98	31.83
105	2013/02/17	20:40:30	192.0000	5790.59	31.63	192.0000	5791.16	31.83
106	2013/02/17	22:40:30	194.0000	5788.80	31.63	194.0000	5789.37	31.83
107	2013/02/18	00:40:30	196.0000	5787.09	31.63	196.0000	5787.69	31.83
108	2013/02/18	02:40:30	198.0000	5785.33	31.62	198.0000	5785.86	31.83
109	2013/02/18	04:40:30	200.0000	5783.64	31.63	200.0000	5784.27	31.82
110	2013/02/18	06:40:30	202.0000	5781.87	31.62	202.0000	5782.44	31.82
111	2013/02/18	08:40:30	204.0000	5780.11	31.62	204.0000	5780.81	31.82
112	2013/02/18	10:40:30	206.0000	5778.55	31.62	206.0000	5779.15	31.82
113	2013/02/18	12:40:30	208.0000	5776.83	31.62	208.0000	5777.42	31.82
114	2013/02/18	14:40:30	210.0000	5775.12	31.62	210.0000	5775.84	31.82
115	2013/02/18	16:40:30	212.0000	5773.43	31.61	212.0000	5773.93	31.82
116	2013/02/18	18:40:30	214.0000	5771.80	31.62	214.0000	5772.46	31.81
117	2013/02/18	20:40:30	216.0000	5770.21	31.62	216.0000	5770.69	31.81
118	2013/02/18	22:40:30	218.0000	5768.65	31.62	218.0000	5769.28	31.81
119	2013/02/19	00:40:30	220.0000	5767.07	31.61	220.0000	5767.76	31.81
120	2013/02/19	02:40:30	222.0000	5765.76	31.62	222.0000	5766.27	31.81

LOWER Serial Number: 40464 Start Date: 2013/02/09 20:40:30 Run Depth: 910.00

UPPER Serial Number: 40454 Start Date: 2013/02/09 20:40:30 Run Depth: 909.70

Print Filter: Print every 2 hour

**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
121	2013/02/19	04:40:30	224.0000	5764.18	31.61	224.0000	5764.68	31.81
122	2013/02/19	06:40:30	226.0000	5762.69	31.62	226.0000	5763.32	31.81
123	2013/02/19	08:40:30	228.0000	5761.15	31.61	228.0000	5761.75	31.81
124	2013/02/19	10:40:30	230.0000	5759.75	31.61	230.0000	5760.25	31.81
125	2013/02/19	12:40:30	232.0000	5758.27	31.61	232.0000	5758.85	31.81
126	2013/02/19	14:40:30	234.0000	5756.78	31.61	234.0000	5757.43	31.81
127	2013/02/19	16:40:30	236.0000	5755.30	31.62	236.0000	5755.87	31.80
128	2013/02/19	18:40:30	238.0000	5753.80	31.61	238.0000	5754.41	31.80
129	2013/02/19	20:40:30	240.0000	5752.30	31.62	240.0000	5752.96	31.80
130	2013/02/19	22:40:30	242.0000	5750.95	31.61	242.0000	5751.55	31.80
131	2013/02/20	00:40:30	244.0000	5749.60	31.61	244.0000	5750.21	31.80
132	2013/02/20	02:40:30	246.0000	5748.35	31.61	246.0000	5748.78	31.80
133	2013/02/20	04:40:30	248.0000	5747.00	31.61	248.0000	5747.55	31.80
134	2013/02/20	06:40:30	250.0000	5745.78	31.61	250.0000	5746.18	31.80
135	2013/02/20	08:40:30	252.0000	5744.38	31.61	252.0000	5745.03	31.80
136	2013/02/20	10:40:30	254.0000	5743.09	31.61	254.0000	5743.60	31.80
137	2013/02/20	12:40:30	256.0000	5741.70	31.61	256.0000	5742.32	31.80
138	2013/02/20	14:40:30	258.0000	5740.48	31.60	258.0000	5741.03	31.80
139	2013/02/20	16:40:30	260.0000	5739.20	31.61	260.0000	5739.74	31.79
140	2013/02/20	18:40:30	262.0000	5737.79	31.61	262.0000	5738.40	31.79
141	2013/02/20	20:40:30	264.0000	5736.51	31.61	264.0000	5737.11	31.79
142	2013/02/20	22:40:30	266.0000	5735.22	31.61	266.0000	5735.97	31.79
143	2013/02/21	00:40:30	268.0000	5734.13	31.61	268.0000	5734.67	31.79
144	2013/02/21	02:40:30	270.0000	5732.99	31.61	270.0000	5733.57	31.79
145	2013/02/21	04:40:30	272.0000	5731.93	31.61	272.0000	5732.55	31.79
146	2013/02/21	06:40:30	274.0000	5730.84	31.61	274.0000	5731.29	31.79
147	2013/02/21	08:40:30	276.0000	5729.63	31.61	276.0000	5730.33	31.79
148	2013/02/21	10:40:30	278.0000	5728.46	31.61	278.0000	5729.15	31.79
149	2013/02/21	12:40:30	280.0000	5727.42	31.61	280.0000	5727.93	31.79
150	2013/02/21	14:40:30	282.0000	5726.33	31.61	282.0000	5726.85	31.79
151	2013/02/21	16:40:30	284.0000	5725.11	31.61	284.0000	5725.74	31.79
152	2013/02/21	18:40:30	286.0000	5724.03	31.62	286.0000	5724.58	31.79
153	2013/02/21	20:40:30	288.0000	5722.86	31.62	288.0000	5723.31	31.79
154	2013/02/21	22:40:30	290.0000	5721.70	31.63	290.0000	5722.22	31.79
155	2013/02/22	00:40:30	292.0000	5720.57	31.62	292.0000	5721.19	31.79
156	2013/02/22	02:40:30	294.0000	5719.60	31.63	294.0000	5720.12	31.79
157	2013/02/22	04:40:30	296.0000	5718.67	31.63	296.0000	5719.16	31.79
158	2013/02/22	06:40:30	298.0000	5717.70	31.63	298.0000	5718.19	31.79
159	2013/02/22	08:40:30	300.0000	5716.60	31.63	300.0000	5717.20	31.79
160	2013/02/22	10:40:30	302.0000	5715.53	31.64	302.0000	5716.05	31.79

LOWER Serial Number: 40464 Start Date: 2013/02/09 20:40:30 Run Depth: 910.00

UPPER Serial Number: 40454 Start Date: 2013/02/09 20:40:30 Run Depth: 909.70

Print Filter: Print every 2 hour

**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
161	2013/02/22	12:40:30	304.0000	5714.54	31.63	304.0000	5714.95	31.79
162	2013/02/22	14:40:30	306.0000	5713.47	31.63	306.0000	5713.97	31.79
163	2013/02/22	16:40:30	308.0000	5712.50	31.63	308.0000	5713.05	31.79
164	2013/02/22	18:40:30	310.0000	5711.41	31.64	310.0000	5711.98	31.79
165	2013/02/22	20:40:30	312.0000	5710.30	31.63	312.0000	5710.88	31.80
166	2013/02/22	22:40:30	314.0000	5709.21	31.63	314.0000	5709.68	31.79
167	2013/02/23	00:40:30	316.0000	5708.27	31.63	316.0000	5708.74	31.79
168	2013/02/23	02:40:30	318.0000	5707.29	31.62	318.0000	5707.97	31.79
169	2013/02/23	04:40:30	320.0000	5706.44	31.62	320.0000	5707.10	31.79
170	2013/02/23	06:40:30	322.0000	5705.54	31.63	322.0000	5706.19	31.79
171	2013/02/23	08:40:30	324.0000	5704.67	31.62	324.0000	5705.18	31.79
172	2013/02/23	10:40:30	326.0000	5703.67	31.62	326.0000	5704.26	31.79
173	2013/02/23	12:40:30	328.0000	5702.74	31.62	328.0000	5703.31	31.79
174	2013/02/23	14:40:30	330.0000	5702.00	31.62	330.0000	5702.51	31.78
175	2013/02/23	14:59:30	330.3167	5701.82	31.62	330.3167	5702.39	31.79
176	2013/02/23	14:59:30	330.3167	RIGGING UP				
177	2013/02/23	15:00:00	330.3250	5702.12	31.62	330.3250	5702.70	31.78
178	2013/02/23	15:20:30	330.6667	5702.63	31.62	330.6667	5703.23	31.78
179	2013/02/23	15:20:30	330.6667	FINAL PRESSURE, UNSETTING BRIDGE PLUG				
180	2013/02/23	15:21:00	330.6750	8771.70	31.61	330.6750	8753.51	31.65
181	2013/02/23	15:21:00	330.6750	BRIDGE PLUG UNSET				
182	2013/02/23	15:21:30	330.6833	8773.96	31.39	330.6833	8769.78	31.45
183	2013/02/23	15:37:00	330.9417	8785.14	31.59	330.9417	8785.67	31.62
184	2013/02/23	15:37:00	330.9417	PULL OUT OF HOLE				
185	2013/02/23	15:37:30	330.9500	8620.92	31.59	330.9500	8839.85	31.63
186	2013/02/23	16:26:00	331.7583	101.47	10.92	331.7583	100.92	11.22
187	2013/02/23	16:26:00	331.7583	TOOLS AT SURFACE				
188	2013/02/23	16:26:30	331.7667	101.47	10.83	331.7667	100.99	11.21
189	2013/02/23	16:40:30	332.0000	100.60	8.01	332.0000	100.46	10.25
190	2013/02/23	17:00:00	332.3250	99.93	6.37	332.3250	99.93	8.92

LOWER Serial Number: 40464 Start Date: 2013/02/09 20:40:30 Run Depth: 910.00

UPPER Serial Number: 40454 Start Date: 2013/02/09 20:40:30 Run Depth: 909.70

Print Filter: Print every 2 hour



DATE: February 9 <sup>th</sup> - 23 <sup>rd</sup> , 2013	COMPANY: Tundra Oil & Gas Partnership
WELLNAME: Daly Sinclair	ADDRESS: Virden, MB
LOCATION: (16-30) 1-32-10-28 W1	UWI: 102.01-32-010-28W1.00
FIELD: Daly Sinclair	FORMATION: Bakken
CO HQ REP: Craig Lane	PHONE: 1204 748 5894
FIELD REP: Mark Skelton	PHONE: 1204 851 5689
REPORTS TO (NAME & EMAIL ADDRESS): Eric Bjornsson - eric.bjornsson@tundraoilandgas.com Tyler Routledge - tyler.routledge@tundraoilandgas.com Tim Howell - tim.howell@tundraoilandgas.com Craig Lane - craig.lane@tundraoilandgas.com Bill Jenkins - bill.jenkins@tundraoilandgas.com Adam Berke - adam.berke@tundraoilandgas.com	

STATUS: Oil well		TEST TYPE: Bridge Plug
ESTIMATED H2S CONTENT: <10 ppm		ESTIMATED CO2 CONTENT: <10 ppm
PRODUCING THROUGH: Tubing		SHUT IN TIME/DATE: See Description
KOP: 602.60 mKB	TVD: 832.52 mKB	LICENCE #: 9220
PBTD: N/A	TD: 2360 mKB	WELL TYPE: Horizontal
CASING SIZE: 177.8 mm	CSG WEIGHT: 34.23 / 29.76 kg/m	CSG DEPTH: 971.60 mKB
TUBING SIZE: N/A	TBG WEIGHT: N/A	TBG DEPTH: N/A
Elevations KB: 520.12 m	GRD: 515.26 m	CF: 516.02 m

#### PRODUCING INTERVAL

TYPE: Open Hole	SIZE: N/A	INTERVAL: 971.5 - 2360 mKB
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#### RECORDER INFORMATION

TOP S/N: 40454	FILE NAME: (16-30) 1-32-10-28 W1	RANGE: 0 - 20,680 kpa
BOTTOM S/N: 40464	FILE NAME: (16-30) 1-32-10-28 W1	RANGE: 0 - 20,680 kpa
TOP BATTERY S/N: N/A	BOTTOM BATTERY S/N: N/A	
CONNECT TIME: February 9 <sup>th</sup> , 2013 20:40:30	DISCONNECT TIME: February 26 <sup>th</sup> , 2013 10:57:00	

SURFACE TEMP: -20	LEASE CONDITION: Good
WIRELINE OPERATOR: Ivory Herman	PHONE: 1306 371 5613
WIRELINE ASSISTANT: N/A	
DIRECTIONS: N/A	

#### DWG WELL HEAD PRESSURES:

TUBING (before survey): N/A	CASING (before survey): N/A
TUBING (after survey): N/A	CASING (after survey): N/A

FLUID LEVEL: N/A	RUN DEPTH: See Description
TIME ON BOTTOM: See Description	TIME OFF BOTTOM: See Description

#### GRADIENT STOPS

DEPTH mKB:	N/A	FROM:	N/A	UNTIL:	N/A
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COMMENTS: Tools were ran in the well by a drilling rig to collect the BHP + BHT below a bridge plug. Tools were than pulled by a serive rig.

DESCRIPTION OF WORK DONE:

Tools were ran in the well by a drilling rig to collect the BHP + BHT below a bridge plug. Tools were than pulled by a service rig.

February 9<sup>th</sup>, 2013

20:40:30 - Run in hole

22:02:30 - On bottom

22:05:30 - Bridge plug set @908 mKB

February 23<sup>rd</sup>, 2013

15:20:30 - FINAL STABLE BHP + BHT

15:21:00 - Bridge plug un-set

15:37:00 - POOH

16:26:00 - Surface

February 26<sup>th</sup>, 2013

10:57:00 - Download data





## TUNDRA OIL & GAS PARTNERSHIP

TUNDRA DALY SINCLAIR PROV HZNTL A8A-32-10-28

102/08-32-010-28W1/0

LICENSE #: 9192

BAKKEN FORMATION

Open Hole: 973.5 – 2205.0 mKBMD  
(836.58 – 813.56 TVD)

RESERVOIR PRESSURE SURVEY DATA  
JANUARY 18<sup>th</sup> – 29<sup>th</sup>, 2013

Prepared by: **DOLLCO Well Data Services**  
e-mail: [dollco@shaw.ca](mailto:dollco@shaw.ca)

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

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

E-mail: [qualityw@sasktel.net](mailto:qualityw@sasktel.net)



# Pressure Survey Report

## Company Information

Company Name  
Contact  
e-mail  
Phone  
Site Contact  
Site Phone

TUNDRA OIL & GAS PARTNERSHIP  
CRAIG LANE  
Craig.Lane@tundraoilandgas.com  
(204) 748-5894  
BRENT DALZIEL  
(204) 522-0864

## Well Information

Well Name  
Unique Well ID  
Surface Location  
Well License Number  
Well Type  
Well Fluid Type  
Field

TUNDRA DALY SINCLAIR PROV HZNTL A8A-32-10-28  
102/08-32-010-28W1/00  
4-32 / 8-32-10-28W1  
9192  
Horizontal  
01 Oil  
DALY SINCLAIR

KB Elevation (SL)  
CF Elevation (SL)  
GL Elevation (SL)  
Distance from KB to CF (Log)  
KB-GL Offset

520.67 m  
516.57 m  
516.57 m  
4.10 m  
4.10 m

Tubing ID  
Tubing OD  
Tubing Depth(Log KB)  
Tubing Depth(TVD KB)  
Casing ID  
Casing OD  
Casing Depth(Log KB)  
Casing Depth(TVD KB)  
PBSD(Log KB)  
PBSD(TVD KB)

mm  
mm  
m  
m  
mm  
139.7 mm  
973.50 m  
836.58 m  
m  
m



# Pressure Survey Report

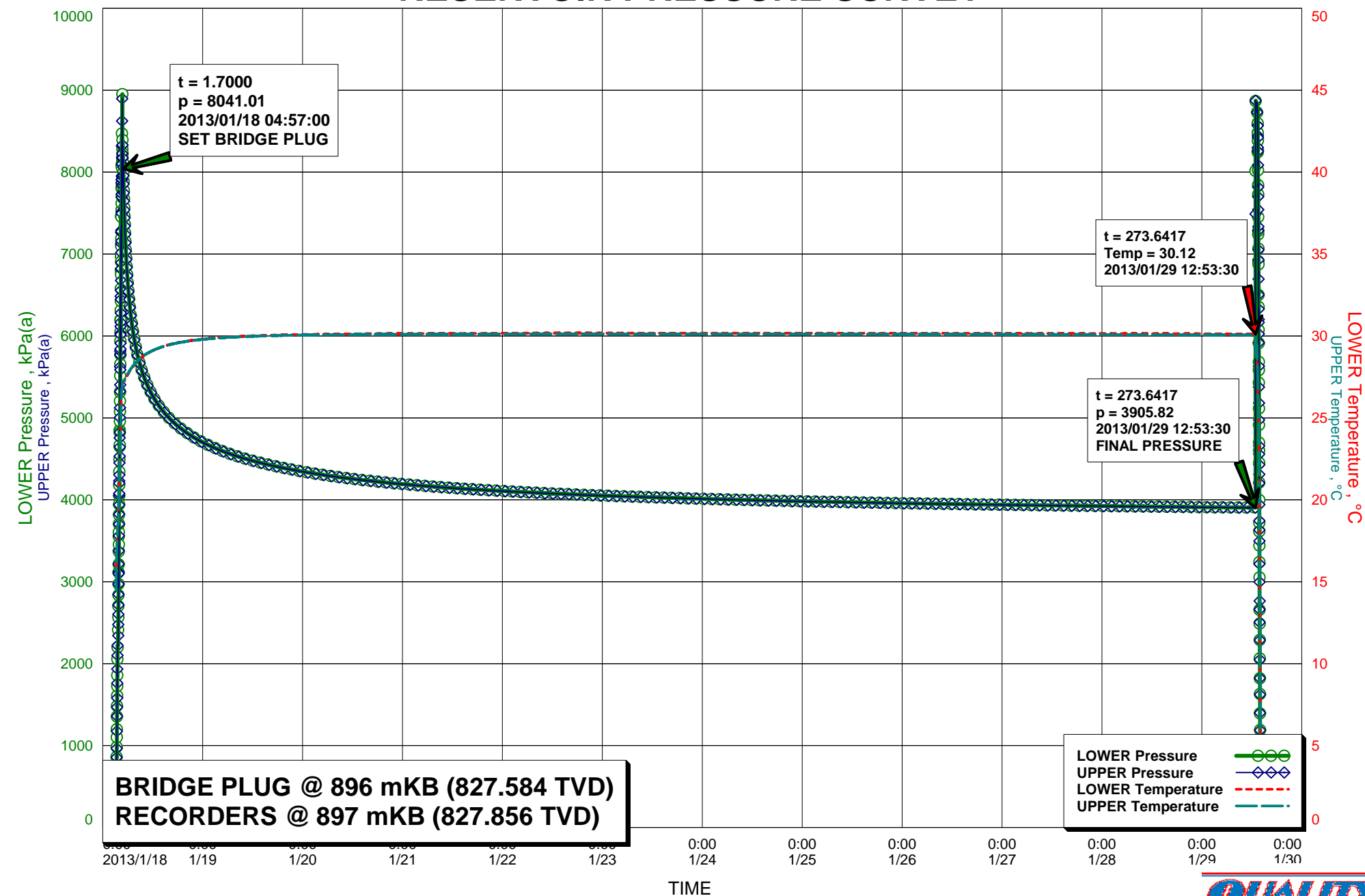
## Test Information

Well Name	TUNDRA DALY SINCLAIR PROV HZNTL A8A-32-10-28
Unique Well ID	102/08-32-010-28W1/00
Surface Location	4-32 / 8-32-10-28W1
Well License Number	9192
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Test Type	RESERVOIR PRESSURE SURVEY
Formation	BAKKEN
Pool	
Well Type Indicator	Horizontal
Test/Prod. Interval Top KB (Log)	973.50 m
Test/Prod. Interval Base KB (Log)	2205.00 m
MPP(Log KB)	1589.25 m
Test/Prod Interval Top KB (TVD)	836.58 m
Test/Prod. Interval Base m KB (TVD)	813.56 m
MPP(TVD KB)	825.07 m
Date/Time Gauge on Bottom	2013/01/18 04:47:00
Date/Time Gauge Off Bottom	2013/01/29 12:53:30
Time/Date Well Shut-In	2013/01/18 04:57:00
Tubing Pressure Initial	kPa(a)
Casing Pressure Initial	93.01 kPa(a)
Tubing Pressure: Final	kPa(a)
Casing Pressure: Final	93.01 kPa(a)
Last Measured Pressure at Run Depth	3905.82 kPa(a)
Reservoir Temperature	30.12 °C
Service Company	Quality Wireline Services Ltd.
Representative	MIKE MUIR
Prepared By	DOLLCO Well Data Services
Qualified By	RICK DOLL
Report Date	2013/02/06

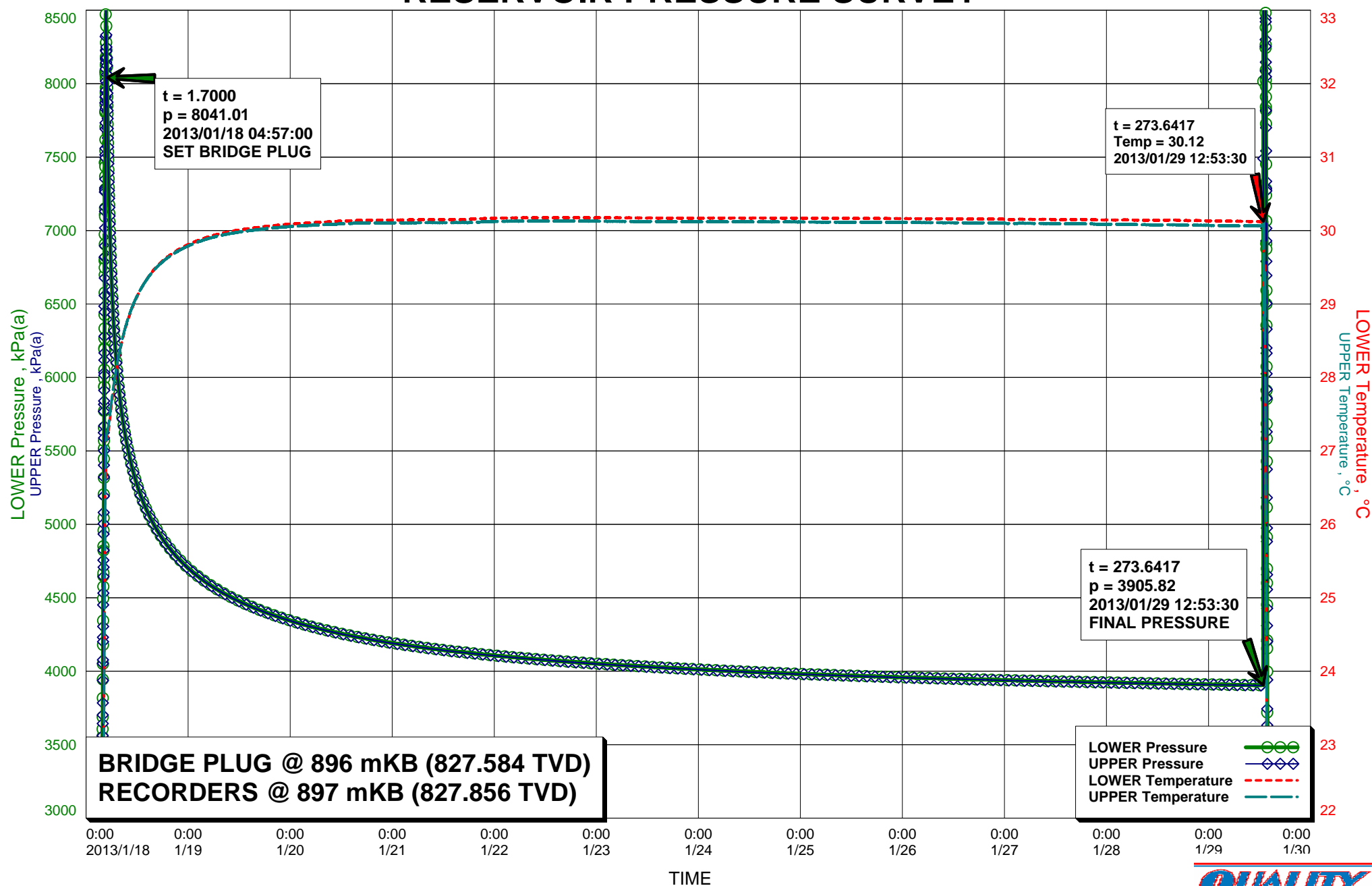
THE RECORDERS WERE RUN AND PULLED WITH PIPE BELOW A BRIDGE PLUG



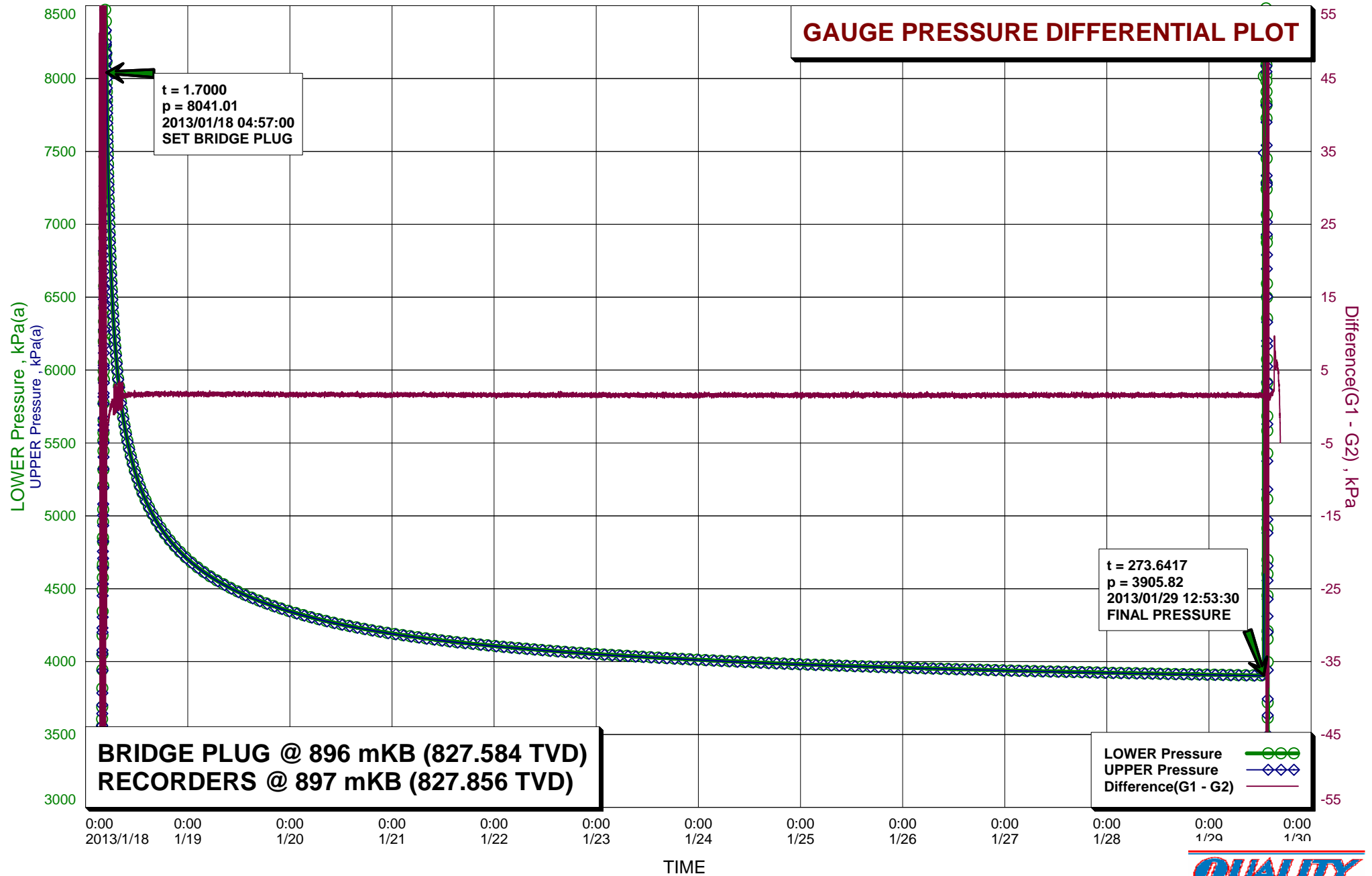
# RESERVOIR PRESSURE SURVEY



# RESERVOIR PRESSURE SURVEY



# RESERVOIR PRESSURE SURVEY



# Recorder Information

Company Name	TUNDRA OIL & GAS PARTNERSHIP
Unique Well ID	102/08-32-010-28W1/00
Well Name	TUNDRA DALY SINCLAIR PROV HZNTL A8A-32-10-28
Formation	BAKKEN
Start Test Date	2013/01/18
Final Test Date	2013/01/29

## Gauge 1

Gauge Name	LOWER	Gauge Type	ELECTRONIC
Gauge Serial Number	40341	Gauge Manufacturer	REAL TIME MEASUREMENTS
Run Depth (Log KB)	897.00 m	Gauge Model	KC2 STRAIN
Date of Last Calibration	2012/08/01	Maximum Recorder Range	20680.00 kPa
Gauge Start Date	2013/01/18	Gauge Start Time	03:15:00
Gauge Stop Date	2013/01/29	Gauge Stop Time	16:46:30
Date Gauge On Bottom	2013/01/18	Time Gauge On Bottom	04:47:00
Date Gauge Off Bottom	2013/01/29	Time Gauge Off Bottom	12:53:30

## Gauge 2

Gauge Name	UPPER	Gauge Type	ELECTRONIC
Gauge Serial Number	40340	Gauge Manufacturer	REAL TIME MEASUREMENTS
Run Depth (Log KB)	896.70 m	Gauge Model	KC2 STRAIN
Date of Last Calibration	2012/08/01	Maximum Recorder Range	20680.00 kPa
Gauge Start Date	2013/01/18	Gauge Start Time	03:15:00
Gauge Stop Date	2013/01/29	Gauge Stop Time	16:46:30
Date Gauge On Bottom	2013/01/18	Time Gauge On Bottom	04:47:00
Date Gauge Off Bottom	2013/01/29	Time Gauge Off Bottom	12:53:30

**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
1	2013/01/18	03:15:00	0.0000	491.90	15.87	0.0000	454.03	14.48
2	2013/01/18	03:15:00	0.0000	RIH, ACTIVATE RECORDERS S/N: 40341(L) & 40340(U)				
3	2013/01/18	03:15:30	0.0083	487.09	16.25	0.0083	484.34	15.51
4	2013/01/18	04:47:00	1.5333	8234.40	27.14	1.5333	8238.10	27.18
5	2013/01/18	04:47:00	1.5333	RECORDERS LANDED @ 897 mKB (827.856 TVD)				
6	2013/01/18	04:47:30	1.5417	8245.51	27.15	1.5417	8236.97	27.19
7	2013/01/18	04:57:00	1.7000	8041.01	27.20	1.7000	8046.08	27.26
8	2013/01/18	04:57:00	1.7000	SET BRIDGE PLUG @ 896 mKB (827.584 TVD)				
9	2013/01/18	04:57:30	1.7083	8018.01	27.20	1.7083	8024.83	27.26
10	2013/01/18	05:15:00	2.0000	7426.66	27.27	2.0000	7429.32	27.34
11	2013/01/18	07:15:00	4.0000	6062.38	28.14	4.0000	6059.69	28.17
12	2013/01/18	09:15:00	6.0000	5601.24	28.67	6.0000	5599.56	28.69
13	2013/01/18	11:15:00	8.0000	5341.35	29.01	8.0000	5339.53	29.02
14	2013/01/18	13:15:00	10.0000	5166.16	29.24	10.0000	5164.62	29.24
15	2013/01/18	15:15:00	12.0000	5037.38	29.42	12.0000	5035.53	29.41
16	2013/01/18	17:15:00	14.0000	4935.34	29.55	14.0000	4933.93	29.54
17	2013/01/18	19:15:00	16.0000	4852.37	29.65	16.0000	4850.62	29.63
18	2013/01/18	21:15:00	18.0000	4782.34	29.72	18.0000	4780.73	29.71
19	2013/01/18	23:15:00	20.0000	4722.87	29.79	20.0000	4721.22	29.77
20	2013/01/19	01:15:00	22.0000	4671.66	29.84	22.0000	4669.90	29.82
21	2013/01/19	03:15:00	24.0000	4626.39	29.89	24.0000	4624.50	29.86
22	2013/01/19	05:15:00	26.0000	4586.09	29.92	26.0000	4584.34	29.90
23	2013/01/19	07:15:00	28.0000	4549.66	29.95	28.0000	4547.91	29.93
24	2013/01/19	09:15:00	30.0000	4516.97	29.98	30.0000	4515.38	29.95
25	2013/01/19	11:15:00	32.0000	4487.76	30.00	32.0000	4486.00	29.97
26	2013/01/19	13:15:00	34.0000	4460.62	30.02	34.0000	4459.07	29.99
27	2013/01/19	15:15:00	36.0000	4435.88	30.04	36.0000	4434.19	30.01
28	2013/01/19	17:15:00	38.0000	4412.76	30.05	38.0000	4410.93	30.02
29	2013/01/19	19:15:00	40.0000	4391.18	30.06	40.0000	4389.36	30.03
30	2013/01/19	21:15:00	42.0000	4371.04	30.07	42.0000	4369.22	30.04
31	2013/01/19	23:15:00	44.0000	4352.27	30.09	44.0000	4350.46	30.05
32	2013/01/20	01:15:00	46.0000	4334.36	30.09	46.0000	4332.90	30.06
33	2013/01/20	03:15:00	48.0000	4318.11	30.10	48.0000	4316.28	30.07
34	2013/01/20	05:15:00	50.0000	4302.24	30.11	50.0000	4300.68	30.07
35	2013/01/20	07:15:00	52.0000	4287.73	30.12	52.0000	4285.91	30.08
36	2013/01/20	09:15:00	54.0000	4273.89	30.12	54.0000	4272.17	30.08
37	2013/01/20	11:15:00	56.0000	4260.76	30.13	56.0000	4259.09	30.09
38	2013/01/20	13:15:00	58.0000	4248.56	30.13	58.0000	4246.97	30.09
39	2013/01/20	15:15:00	60.0000	4236.97	30.14	60.0000	4235.49	30.10
40	2013/01/20	17:15:00	62.0000	4225.69	30.14	62.0000	4224.26	30.10

LOWER Serial Number: 40341 Start Date: 2013/01/18 03:15:00 Run Depth: 897.00

UPPER Serial Number: 40340 Start Date: 2013/01/18 03:15:00 Run Depth: 896.70

Print Filter: Print every 2 hour

## RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
41	2013/01/20	19:15:00	64.0000	4215.35	30.14	64.0000	4213.68	30.10
42	2013/01/20	21:15:00	66.0000	4205.35	30.14	66.0000	4203.50	30.10
43	2013/01/20	23:15:00	68.0000	4195.78	30.14	68.0000	4194.16	30.10
44	2013/01/21	01:15:00	70.0000	4186.85	30.14	70.0000	4185.20	30.11
45	2013/01/21	03:15:00	72.0000	4178.56	30.15	72.0000	4176.89	30.11
46	2013/01/21	05:15:00	74.0000	4170.15	30.15	74.0000	4168.54	30.11
47	2013/01/21	07:15:00	76.0000	4162.46	30.15	76.0000	4160.59	30.11
48	2013/01/21	09:15:00	78.0000	4154.48	30.15	78.0000	4152.80	30.10
49	2013/01/21	11:15:00	80.0000	4147.18	30.15	80.0000	4145.55	30.11
50	2013/01/21	13:15:00	82.0000	4139.90	30.15	82.0000	4138.45	30.11
51	2013/01/21	15:15:00	84.0000	4133.30	30.15	84.0000	4131.86	30.11
52	2013/01/21	17:15:00	86.0000	4127.68	30.15	86.0000	4125.93	30.11
53	2013/01/21	19:15:00	88.0000	4121.46	30.16	88.0000	4119.85	30.11
54	2013/01/21	21:15:00	90.0000	4115.43	30.16	90.0000	4113.63	30.12
55	2013/01/21	23:15:00	92.0000	4109.59	30.17	92.0000	4107.88	30.12
56	2013/01/22	01:15:00	94.0000	4104.10	30.17	94.0000	4102.35	30.12
57	2013/01/22	03:15:00	96.0000	4098.97	30.17	96.0000	4097.33	30.13
58	2013/01/22	05:15:00	98.0000	4093.85	30.17	98.0000	4092.11	30.13
59	2013/01/22	07:15:00	100.0000	4088.71	30.17	100.0000	4087.09	30.13
60	2013/01/22	09:15:00	102.0000	4083.86	30.17	102.0000	4082.45	30.13
61	2013/01/22	11:15:00	104.0000	4079.21	30.17	104.0000	4077.65	30.13
62	2013/01/22	13:15:00	106.0000	4074.76	30.18	106.0000	4072.98	30.13
63	2013/01/22	15:15:00	108.0000	4069.87	30.18	108.0000	4068.44	30.13
64	2013/01/22	17:15:00	110.0000	4065.69	30.18	110.0000	4064.20	30.13
65	2013/01/22	19:15:00	112.0000	4061.38	30.17	112.0000	4060.01	30.13
66	2013/01/22	21:15:00	114.0000	4057.43	30.18	114.0000	4055.59	30.13
67	2013/01/22	23:15:00	116.0000	4053.46	30.18	116.0000	4051.93	30.13
68	2013/01/23	01:15:00	118.0000	4049.51	30.17	118.0000	4048.14	30.13
69	2013/01/23	03:15:00	120.0000	4046.23	30.18	120.0000	4044.52	30.13
70	2013/01/23	05:15:00	122.0000	4042.61	30.17	122.0000	4040.97	30.13
71	2013/01/23	07:15:00	124.0000	4039.29	30.17	124.0000	4037.56	30.12
72	2013/01/23	09:15:00	126.0000	4035.99	30.17	126.0000	4034.41	30.12
73	2013/01/23	11:15:00	128.0000	4032.58	30.17	128.0000	4031.11	30.12
74	2013/01/23	13:15:00	130.0000	4029.14	30.17	130.0000	4027.66	30.12
75	2013/01/23	15:15:00	132.0000	4025.96	30.17	132.0000	4024.58	30.12
76	2013/01/23	17:15:00	134.0000	4023.02	30.17	134.0000	4021.39	30.12
77	2013/01/23	19:15:00	136.0000	4019.87	30.17	136.0000	4018.37	30.12
78	2013/01/23	21:15:00	138.0000	4016.82	30.17	138.0000	4015.18	30.12
79	2013/01/23	23:15:00	140.0000	4013.79	30.17	140.0000	4012.22	30.12
80	2013/01/24	01:15:00	142.0000	4010.67	30.17	142.0000	4009.12	30.12

LOWER Serial Number: 40341 Start Date: 2013/01/18 03:15:00 Run Depth: 897.00

UPPER Serial Number: 40340 Start Date: 2013/01/18 03:15:00 Run Depth: 896.70

Print Filter: Print every 2 hour



**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
81	2013/01/24	03:15:00	144.0000	4008.19	30.17	144.0000	4006.48	30.12
82	2013/01/24	05:15:00	146.0000	4005.52	30.17	146.0000	4003.84	30.12
83	2013/01/24	07:15:00	148.0000	4002.78	30.17	148.0000	4001.20	30.12
84	2013/01/24	09:15:00	150.0000	4000.01	30.17	150.0000	3998.43	30.12
85	2013/01/24	11:15:00	152.0000	3997.34	30.17	152.0000	3995.70	30.12
86	2013/01/24	13:15:00	154.0000	3994.67	30.17	154.0000	3993.17	30.12
87	2013/01/24	15:15:00	156.0000	3992.19	30.17	156.0000	3990.68	30.12
88	2013/01/24	17:15:00	158.0000	3989.64	30.17	158.0000	3987.97	30.12
89	2013/01/24	19:15:00	160.0000	3987.33	30.17	160.0000	3985.60	30.12
90	2013/01/24	21:15:00	162.0000	3984.91	30.17	162.0000	3983.33	30.12
91	2013/01/24	23:15:00	164.0000	3982.49	30.17	164.0000	3980.97	30.12
92	2013/01/25	01:15:00	166.0000	3980.58	30.17	166.0000	3978.84	30.12
93	2013/01/25	03:15:00	168.0000	3978.32	30.17	168.0000	3976.88	30.12
94	2013/01/25	05:15:00	170.0000	3976.74	30.17	170.0000	3974.95	30.12
95	2013/01/25	07:15:00	172.0000	3974.71	30.17	172.0000	3973.19	30.12
96	2013/01/25	09:15:00	174.0000	3972.70	30.17	174.0000	3970.97	30.11
97	2013/01/25	11:15:00	176.0000	3970.80	30.17	176.0000	3968.96	30.11
98	2013/01/25	13:15:00	178.0000	3968.65	30.17	178.0000	3967.10	30.11
99	2013/01/25	15:15:00	180.0000	3966.91	30.16	180.0000	3965.48	30.11
100	2013/01/25	17:15:00	182.0000	3964.95	30.17	182.0000	3963.52	30.11
101	2013/01/25	19:15:00	184.0000	3963.06	30.16	184.0000	3961.46	30.11
102	2013/01/25	21:15:00	186.0000	3961.19	30.16	186.0000	3959.33	30.11
103	2013/01/25	23:15:00	188.0000	3959.30	30.16	188.0000	3957.66	30.11
104	2013/01/26	01:15:00	190.0000	3957.22	30.16	190.0000	3955.83	30.11
105	2013/01/26	03:15:00	192.0000	3955.68	30.16	192.0000	3954.27	30.11
106	2013/01/26	05:15:00	194.0000	3954.33	30.16	194.0000	3952.51	30.11
107	2013/01/26	07:15:00	196.0000	3952.60	30.16	196.0000	3951.17	30.11
108	2013/01/26	09:15:00	198.0000	3951.14	30.16	198.0000	3949.43	30.11
109	2013/01/26	11:15:00	200.0000	3949.30	30.16	200.0000	3947.81	30.11
110	2013/01/26	13:15:00	202.0000	3947.88	30.16	202.0000	3946.30	30.11
111	2013/01/26	15:15:00	204.0000	3946.13	30.16	204.0000	3944.78	30.11
112	2013/01/26	17:15:00	206.0000	3944.89	30.16	206.0000	3943.36	30.11
113	2013/01/26	19:15:00	208.0000	3943.43	30.16	208.0000	3941.55	30.10
114	2013/01/26	21:15:00	210.0000	3941.84	30.16	210.0000	3940.24	30.10
115	2013/01/26	23:15:00	212.0000	3939.97	30.15	212.0000	3938.64	30.10
116	2013/01/27	01:15:00	214.0000	3938.58	30.15	214.0000	3937.13	30.09
117	2013/01/27	03:15:00	216.0000	3937.26	30.15	216.0000	3935.80	30.10
118	2013/01/27	05:15:00	218.0000	3936.13	30.15	218.0000	3934.59	30.10
119	2013/01/27	07:15:00	220.0000	3934.90	30.15	220.0000	3933.20	30.10
120	2013/01/27	09:15:00	222.0000	3933.61	30.15	222.0000	3931.86	30.10

LOWER Serial Number: 40341 Start Date: 2013/01/18 03:15:00 Run Depth: 897.00

UPPER Serial Number: 40340 Start Date: 2013/01/18 03:15:00 Run Depth: 896.70

Print Filter: Print every 2 hour

**RESERVOIR PRESSURE SURVEY**

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
121	2013/01/27	11:15:00	224.0000	3931.92	30.15	224.0000	3930.46	30.09
122	2013/01/27	13:15:00	226.0000	3930.64	30.15	226.0000	3929.15	30.09
123	2013/01/27	15:15:00	228.0000	3929.41	30.15	228.0000	3928.03	30.09
124	2013/01/27	17:15:00	230.0000	3928.34	30.15	230.0000	3926.73	30.09
125	2013/01/27	19:15:00	232.0000	3927.05	30.15	232.0000	3925.56	30.09
126	2013/01/27	21:15:00	234.0000	3925.78	30.15	234.0000	3924.05	30.09
127	2013/01/27	23:15:00	236.0000	3924.55	30.14	236.0000	3922.81	30.08
128	2013/01/28	01:15:00	238.0000	3922.90	30.14	238.0000	3921.41	30.08
129	2013/01/28	03:15:00	240.0000	3921.96	30.14	240.0000	3920.33	30.09
130	2013/01/28	05:15:00	242.0000	3920.85	30.14	242.0000	3919.37	30.09
131	2013/01/28	07:15:00	244.0000	3919.74	30.14	244.0000	3918.18	30.08
132	2013/01/28	09:15:00	246.0000	3918.69	30.14	246.0000	3917.24	30.08
133	2013/01/28	11:15:00	248.0000	3917.35	30.14	248.0000	3915.91	30.08
134	2013/01/28	13:15:00	250.0000	3916.44	30.14	250.0000	3914.94	30.08
135	2013/01/28	15:15:00	252.0000	3915.18	30.14	252.0000	3913.62	30.08
136	2013/01/28	17:15:00	254.0000	3914.39	30.14	254.0000	3912.54	30.07
137	2013/01/28	19:15:00	256.0000	3913.11	30.13	256.0000	3911.55	30.07
138	2013/01/28	21:15:00	258.0000	3912.00	30.14	258.0000	3910.46	30.07
139	2013/01/28	23:15:00	260.0000	3910.91	30.13	260.0000	3909.37	30.07
140	2013/01/29	01:15:00	262.0000	3909.95	30.13	262.0000	3908.31	30.07
141	2013/01/29	03:15:00	264.0000	3908.76	30.13	264.0000	3907.25	30.07
142	2013/01/29	05:15:00	266.0000	3907.96	30.13	266.0000	3906.49	30.07
143	2013/01/29	07:15:00	268.0000	3906.86	30.12	268.0000	3905.40	30.06
144	2013/01/29	09:15:00	270.0000	3906.13	30.13	270.0000	3904.66	30.06
145	2013/01/29	11:15:00	272.0000	3905.27	30.13	272.0000	3903.44	30.06
146	2013/01/29	12:29:00	273.2333	3904.75	30.12	273.2333	3903.55	30.06
147	2013/01/29	12:29:00	273.2333	RIGGING UP.				
148	2013/01/29	12:29:30	273.2417	3906.18	30.12	273.2417	3904.82	30.06
149	2013/01/29	12:53:30	273.6417	3905.82	30.12	273.6417	3904.31	30.06
150	2013/01/29	12:53:30	273.6417	FINAL PRESSURE, UNSETTING BRIDGE PLUG				
151	2013/01/29	12:54:00	273.6500	8015.64	30.17	273.6500	7489.78	30.19
152	2013/01/29	12:55:00	273.6667	8861.52	29.61	273.6667	8856.66	29.61
153	2013/01/29	12:55:00	273.6667	BRIDGE PLUG UNSET.				
154	2013/01/29	12:55:30	273.6750	8856.59	29.35	273.6750	8852.44	29.42
155	2013/01/29	13:15:00	274.0000	8836.18	29.45	274.0000	8829.90	29.29
156	2013/01/29	13:25:00	274.1667	8597.01	27.81	274.1667	8569.45	27.84
157	2013/01/29	13:25:00	274.1667	PULL OUT OF HOLE				
158	2013/01/29	13:25:30	274.1750	8658.02	27.52	274.1750	8621.04	27.56
159	2013/01/29	14:17:00	275.0333	104.58	4.68	275.0333	103.59	5.25
160	2013/01/29	14:17:00	275.0333	RECORDERS AT SURFACE				

LOWER Serial Number: 40341 Start Date: 2013/01/18 03:15:00 Run Depth: 897.00

UPPER Serial Number: 40340 Start Date: 2013/01/18 03:15:00 Run Depth: 896.70

Print Filter: Print every 2 hour



DATE: January 18 - 29, 2013	COMPANY: Tundra Oil & Gas Partnership
WELLNAME: Daly sinclair Prov Hzntl (4-32) Hz WIW A8A-32-10-28 WPM	ADDRESS: Virden, MB
LOCATION: (4-32) A8A-32-10-28 WPM	UWI: 102.08-32-010-28W1.00
FIELD: Daly Sinclair	FORMATION: Bakken
CO HQ REP: Craig Lane	PHONE: 204-748-5894
FIELD REP: Bent Dalziel	PHONE: 204-522-0864
REPORTS TO (NAME & EMAIL ADDRESS): Eric Bjornsson - eric.bjornsson@tundraoilandgas.com Tyler Routledge - tyler.routledge@tundraoilandgas.com Tim Howell - tim.howell@tundraoilandgas.com Craig Lane - craig.lane@tundraoilandgas.com Bill Jenkins - bill.jenkins@tundraoilandgas.com Adam Berke - adam.berke@tundraoilandgas.com Chris Perkins - chris.perkins@tundraoilandgas.com	

STATUS: oil well (completion)		TEST TYPE: build up	
ESTIMATED H2S CONTENT: 0%		ESTIMATED CO2 CONTENT: 0%	
PRODUCING THROUGH: tubing		SHUT IN TIME/DATE: 04:57 Jan 18/13	
KOP: 650.30 mKB	TVD: ds included		LICENCE #: 9192
PBTD: n/a	TD: 2205.0 mKB		WELL TYPE: horizontal
CASING SIZE: 177.8 mm	CSG WEIGHT: 34.23 & 29.76		CSG DEPTH: 973.50 mKB
TUBING SIZE: none	TBG WEIGHT: none		TBG DEPTH: none
Elevations KB: 520.67 m	GRD: 516.57 m		CF: 516.57 m

PRODUCING INTERVAL

TYPE: open hole	SIZE: n/a	INTERVAL: 973.50 - 2205.0 mKB
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RECORDER INFORMATION

TOP S/N: 40340	FILE NAME: 4-32-8-32-10-28W1, 6754, bridgeplug	RANGE: 20,680 kPa
BOTTOM S/N: 40341	FILE NAME: 4-32-8-32-10-28W1, 6754, bridgeplug	RANGE: 20,680 kPa
TOP BATTERY S/N: n/a	BOTTOM BATTERY S/N: n/a	
CONNECT TIME: 03:15 Jan 18/13	DISCONNECT TIME: 14:29 Feb 8/13	

SURFACE TEMP: -12 C	LEASE CONDITION: good
WIRELINE OPERATOR: Mike Muir	PHONE: 306-421-7330
WIRELINE ASSISTANT: n/a	
DIRECTIONS: from the junction of 256 & 257: 1.6 km west on 257, approximately 6.8 km north, east into well.	

DWG WELL HEAD PRESSURES:

TUBING (before survey): n/a	CASING (before survey): 0 kPa
TUBING (after survey): n/a	CASING (after survey): 0 kPa

FLUID LEVEL: n/a	RUN DEPTH: 897 mKB
TIME ON BOTTOM: 04:47 Jan 18/13	TIME OFF BOTTOM: 13:25 Jan 29/13

GRADIENT STOPS

DEPTH mKB:	n/a	FROM:	n/a	UNTIL:	n/a
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COMMENTS: These recorders were run and pulled with pipe below a bridge plug.
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DESCRIPTION OF WORK DONE:
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January 18, 2013

03:15 - the 21 mPa KC-2 recorders were set to logging mode while being run into the well by a drilling rig.

04:47 - the recorders were landed at 897 mKB.

04:57 - the bridge plug was set at 896 mKB (recorders at 897 mKB), the plug was released and the drill pipe was pulled and laid down.

January 29, 2013

12:54 - a service rig had run tubing into the well, latched onto, and was preparing to unset the bridge plug.

12:55 - the bridge plug was unset.

13:25 - POOH.

14:17 - the recorders were at surface.

February 8, 2013

14:29 - the recorders were downloaded.