

EWART UNIT NO. 8
WATERFLOOD EOR PROJECT
ANNUAL REPORT FOR 2015

April 22, 2016

Tundra Oil and Gas Partnership

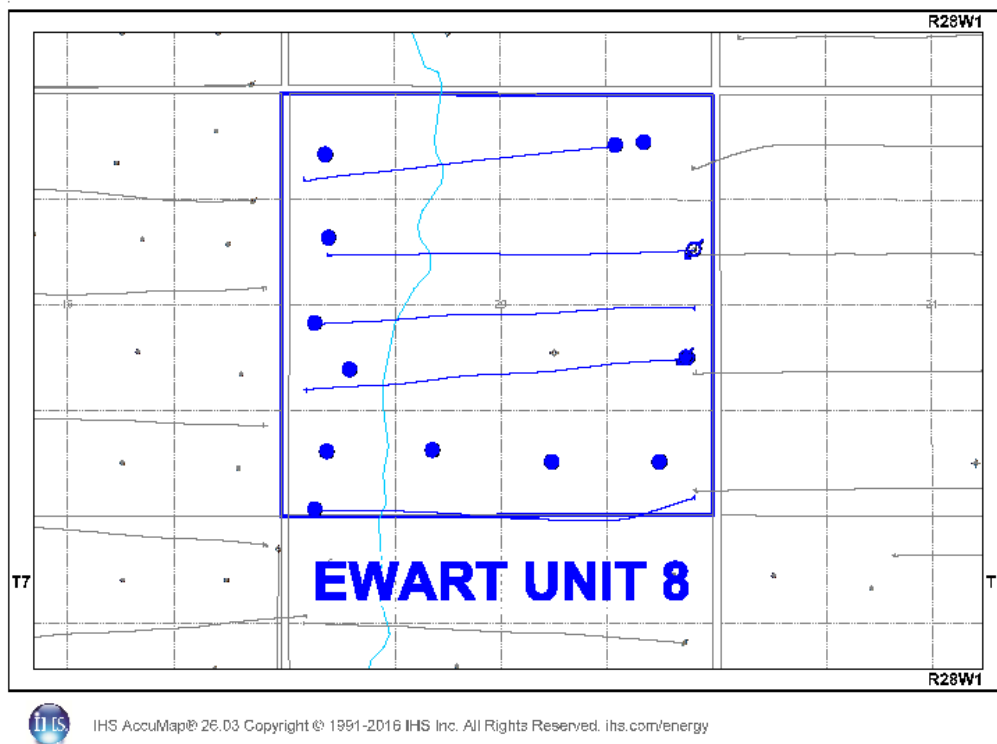
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100/08-20-007-28W1	
100/09-20-007-28W1	
102/04-20-007-28W1 (Inter-Unit)	

INTRODUCTION

Ewart 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 8 vertical and 3 horizontal producing wells and 2 horizontal injection wells in 16 LSDs in Township 7, Range 28W1. Well list and well status is available in Appendix A.

Figure 1: Ewart Unit No. 8 Area Outline



In accordance with Section 73 of the Manitoba Drilling and Production Regulation, Tundra submits the following 2015 Annual Progress Report for Ewart Unit No. 8.

DISCUSSION

Production History

For the wells included in Ewart Unit No. 8, production started in December 2004 with the 00/13-20-007-28W1/00 well. Oil production peaked at 42.8 m³/d in March of 2009. In 2015, the average production for the unit was 11.16 m³/d of oil and 13.02 m³/d of water, and the average WOR was 1.16 m³/m³. Water injection commenced in Ewart Unit No. 8 in July 2015. The rates and WOR are presented in Figure 2.

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

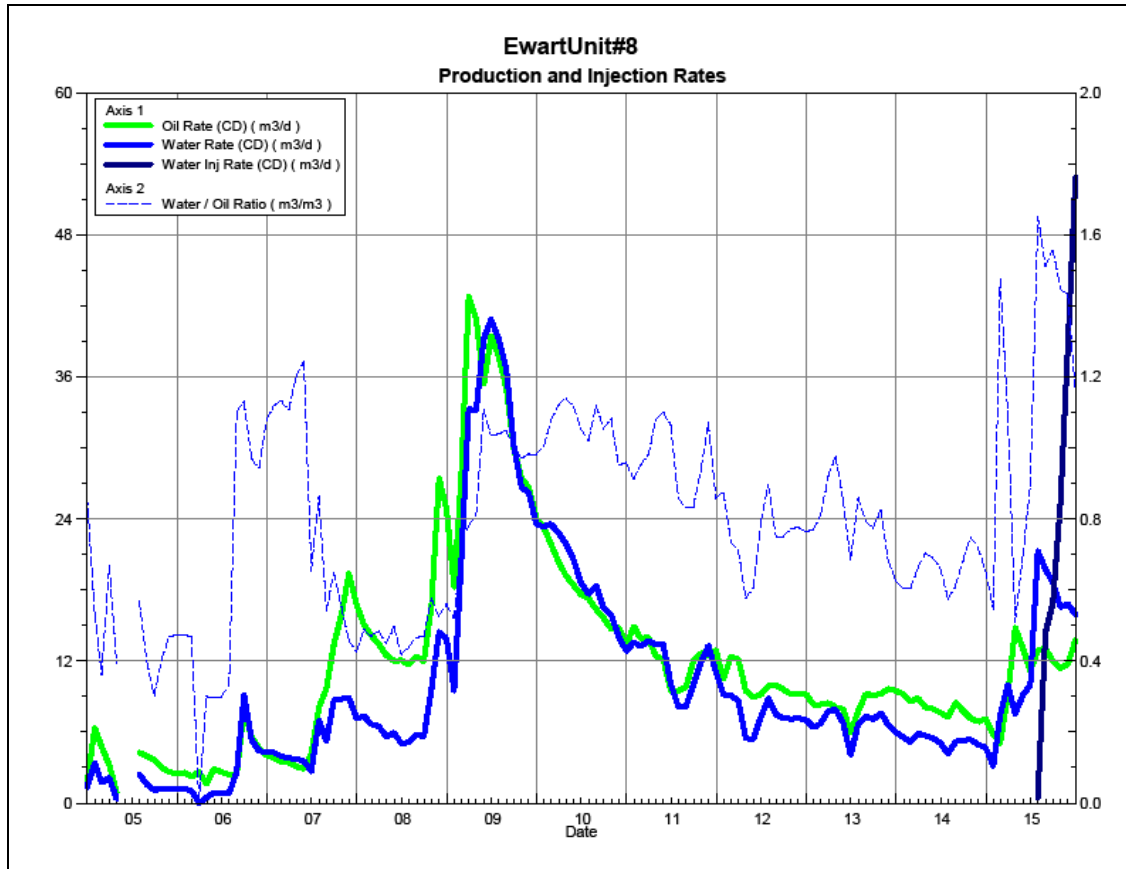
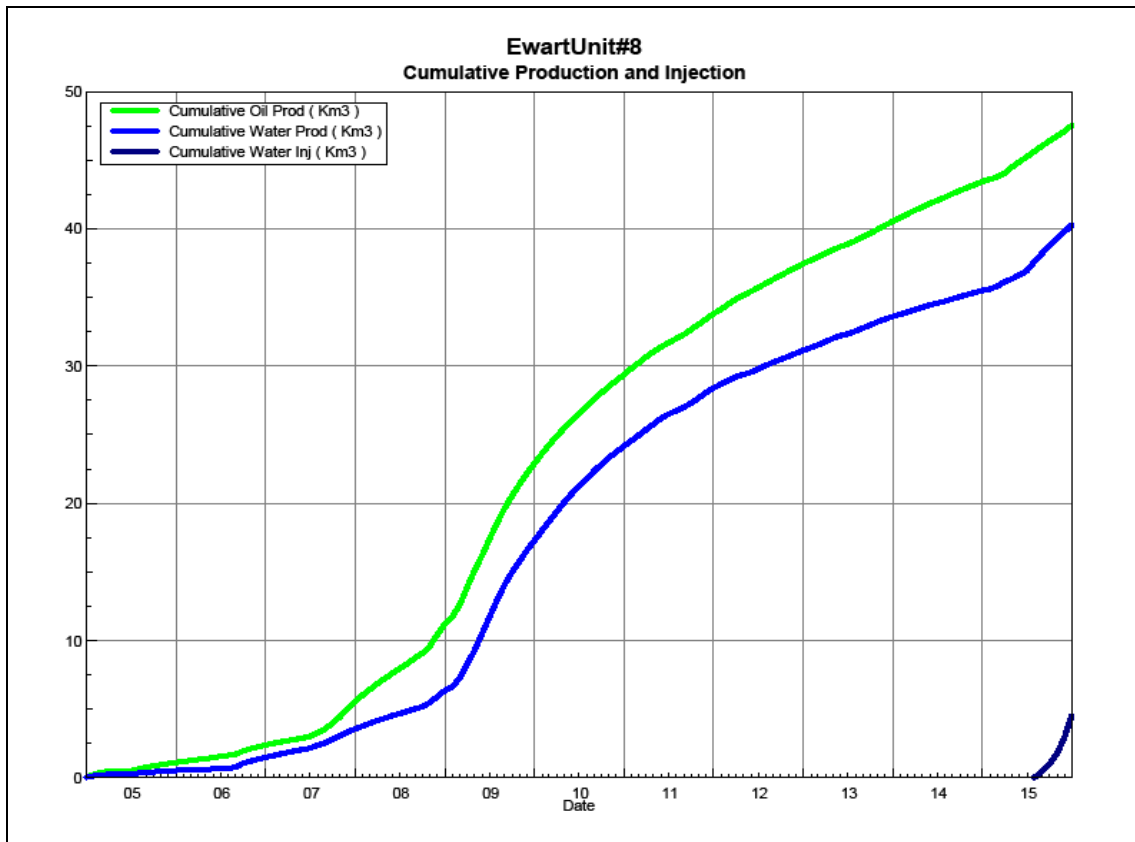


Figure 3 shows the cumulative production for Ewart Unit No. 8 to the end of December 2015 as 47.53 e³m³ of oil and 40.28 e³m³ of water, representing a 7.7% recovery factor of the OOIP.

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



Waterflood History

Ewart Unit No. 8 is still in the development phase at the end of 2015. In 2015, the 00/08-20 and 00/09-20-007-28W1 existing horizontal producers were converted to horizontal injection wells. This unit will have a combination of waterflood patterns at 20 acre and 40 acre spacing having utilized the existing horizontal and vertical wells in the area. An inter-unit horizontal well was drilled at 02/04-20-007-28W1/0 (02/04-20) in December 2014. Tundra plans to produce the inter-unit well for a short period of time to clean-up the reservoir near the wellbore, before converting it to an injector. All of the horizontal wells are fracture stimulated to improve the injection rates.

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

The injection water for Ewart Unit No. 8 will be sourced from the 16-32-007-29W1 well (Lodgepole formation). The water is treated at the 03-04-007-29W1 battery where it is filtered to 0.5 microns and has scale inhibitor added. The injection water is then distributed to the injectors through the dedicated infrastructure system.

Injection Wellhead Pressures

Injection started in this Unit in July 2015. The average monthly wellhead injection pressure for each injector is summarized in Appendix C. Since injection in this Unit is still in the early stages, the injectors are still building up to a target injection pressure of 6300 kPa(a).

Reservoir Pressure

Where practical, Tundra is committed to collecting pressure data from newly drilled injection wells. For Ewart Unit No. 8, pressure data is currently available for the 02/04-20 location. The reservoir pressure is 5281 kPa(a), 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 Ewart Unit No. 8 in 2015.

Table 1: Service and Maintenance in Ewart Unit No. 8

00/08-20-007-28W1/0	Change Out Riser Spool	11/20/2015
02/04-20-007-28W1/0	Openhole Frac	2/4/2015

Waterflood Performance Discussion

At the end of 2015, Ewart Unit No. 8 had 2 injection patterns in place, 00/08-20 and 00/09-20-007-28W1. Since injection started in July 2015, there is no waterflood analysis that can be done at this time. This unit will have a combination of waterflood patterns at 20 acre and 40 acre spacing having utilized the existing horizontal and vertical wells in the area. The waterflood area also had an inter-unit injection well drilled in 2014 at 02/04-20, which is currently on production.

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

List of Appendices

Appendix A: Well List and Well Status

Appendix B: Injection Pattern Summary

Appendix C: Average Monthly Injection Pressures

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

Plots and Tables for the following injectors:

00/08-20-007-28W1/0

00/09-20-007-28W1/0

02/04-20-007-28W1/0 (Inter-Unit)

Appendix A

UWI	Well Status
100/01-20-007-28W1/00	Capable of OIL Prod
100/02-20-007-28W1/00	Capable of OIL Prod
100/03-20-007-28W1/00	Capable of OIL Prod
100/04-20-007-28W1/00	Capable of OIL Prod
102/04-20-007-28W1/00	Capable of OIL Prod
102/05-20-007-28W1/00	Capable of OIL Prod
103/05-20-007-28W1/00	Capable of OIL Prod
100/08-20-007-28W1/00	WTR Injection
100/09-20-007-28W1/00	WTR Injection
100/12-20-007-28W1/00	Capable of OIL Prod
100/13-20-007-28W1/00	Capable of OIL Prod
100/16-20-007-28W1/00	Capable of OIL Prod
102/16-20-007-28W1/00	Capable of OIL Prod

Appendix B

Ewart Unit No. 8 Pattern Summary as of December 2015

Pattern Name	Injector Location (007-28W1)	Status	No. of Supported Wells	Supported Wells (007-28W1)	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
00/08-20-007-28 Injector	00/05-20	Water Injection	6	01-20, 02-20, 03-20, 04-20, 03/05-20 02/05-20	0.5 1.0	Aug 2006	Dec 2015	1.15	0.58	0.5	14.2	14.8	13.3	0.4	7.8	0.02
00/09-20-007-28 Injector	00/12-20	Water Injection	5	03/05-20, 13-20, 16-20, 02/16-20 12-20	0.5 1.0	Dec 2004	Jul 2015	2.08	2.96	1.43	38.7	19.1	15.0	4.1	7.5	0.12
02/04-20-007-28 Inter-Unit Injector	02/01-20	Completing	8	13-17, 14-17, 15-17, 16-17 01-20, 02-20, 03-20, 04-20	0.5	Aug 2006	-	12.04	10.21	0.85	-	21.0	10.4	0.0	0.0	0.00

Appendix C

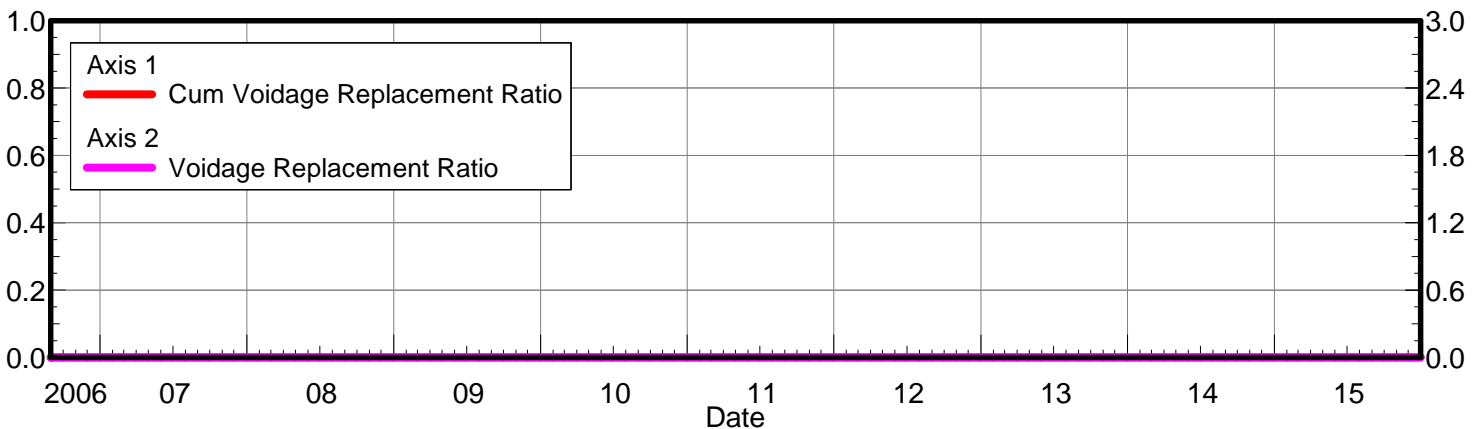
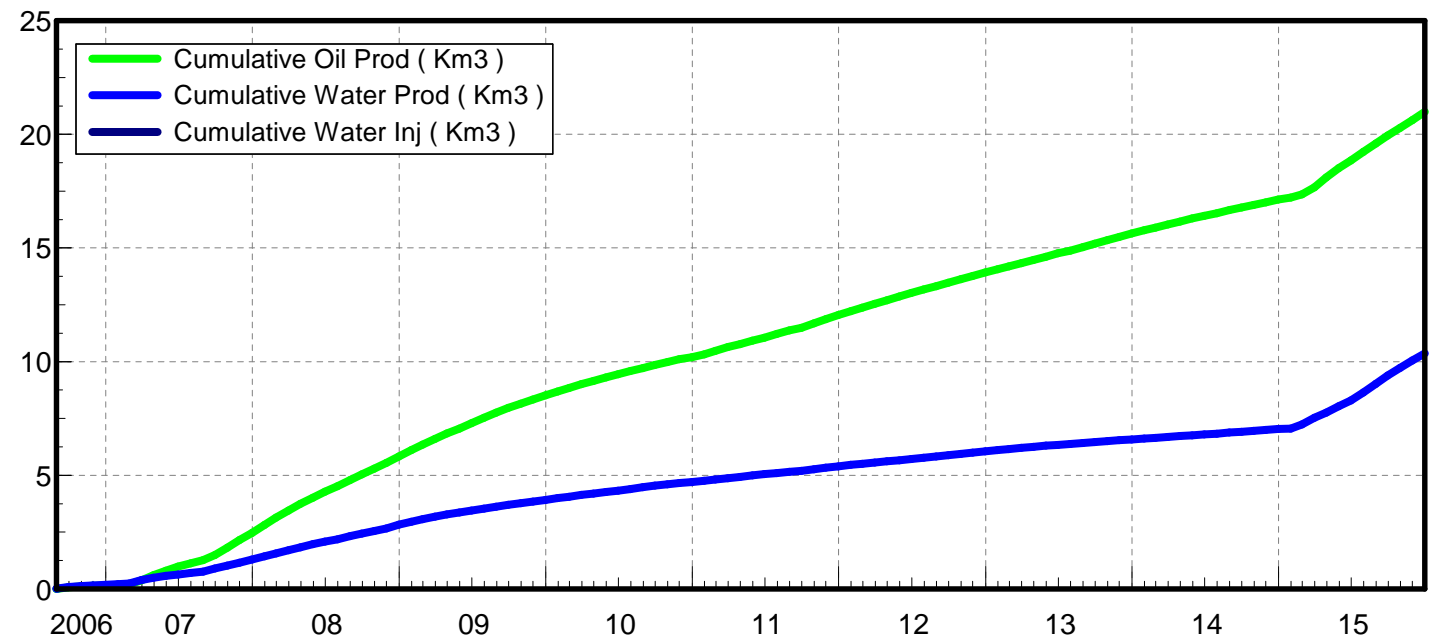
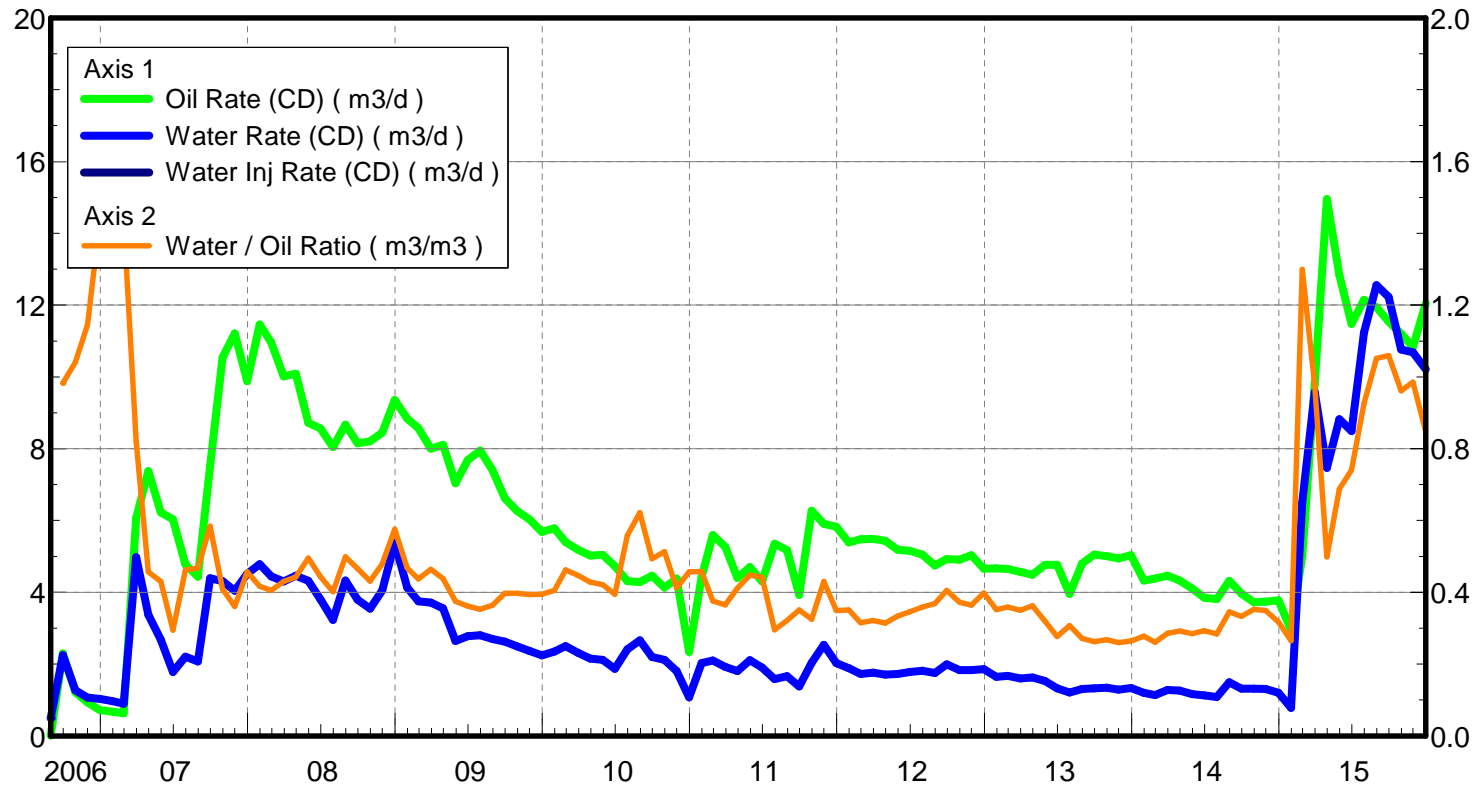
Average Monthly Injection Pressure (kPag)

Month	100/08-20	100/09-20
Jun-15	0	0
Jul-15	0	-19
Aug-15	0	-76
Sep-15	0	132
Oct-15	0	385
Nov-15	0	1630
Dec-15	-61	2508

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 : 0.78 m3/m3
Pattern: 02/04-20-007-28Inj Set: EwartUnit#8
March 31, 2016
Operator: Tundra_O&G_Prtshp
Oil Rate (CD) : 11.72 m3/d
Water Rate (CD) : 9.11 m3/d
Water Inj Rate (CD) : * m3/d

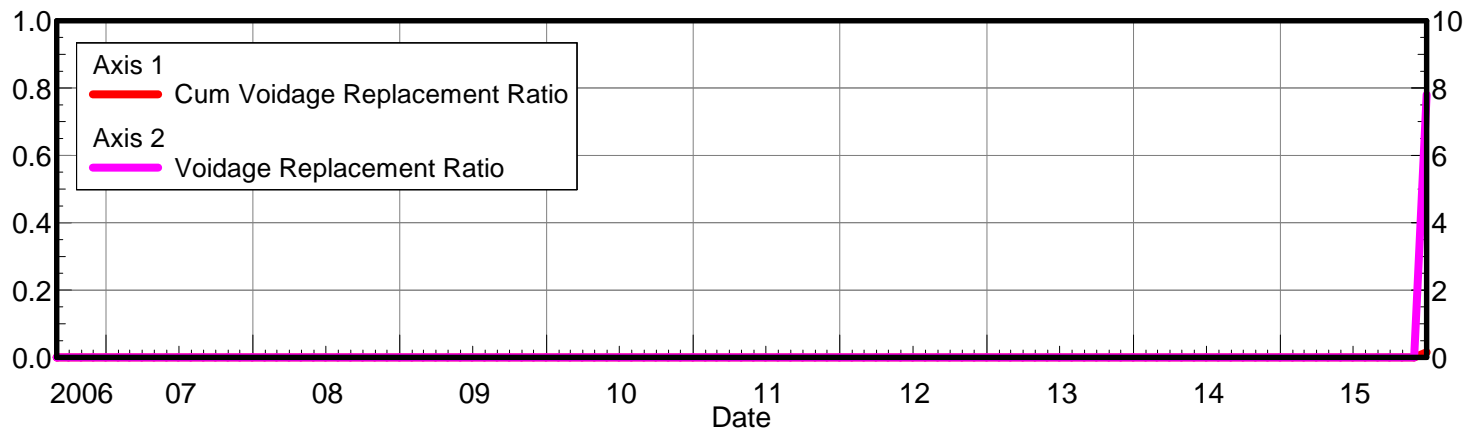
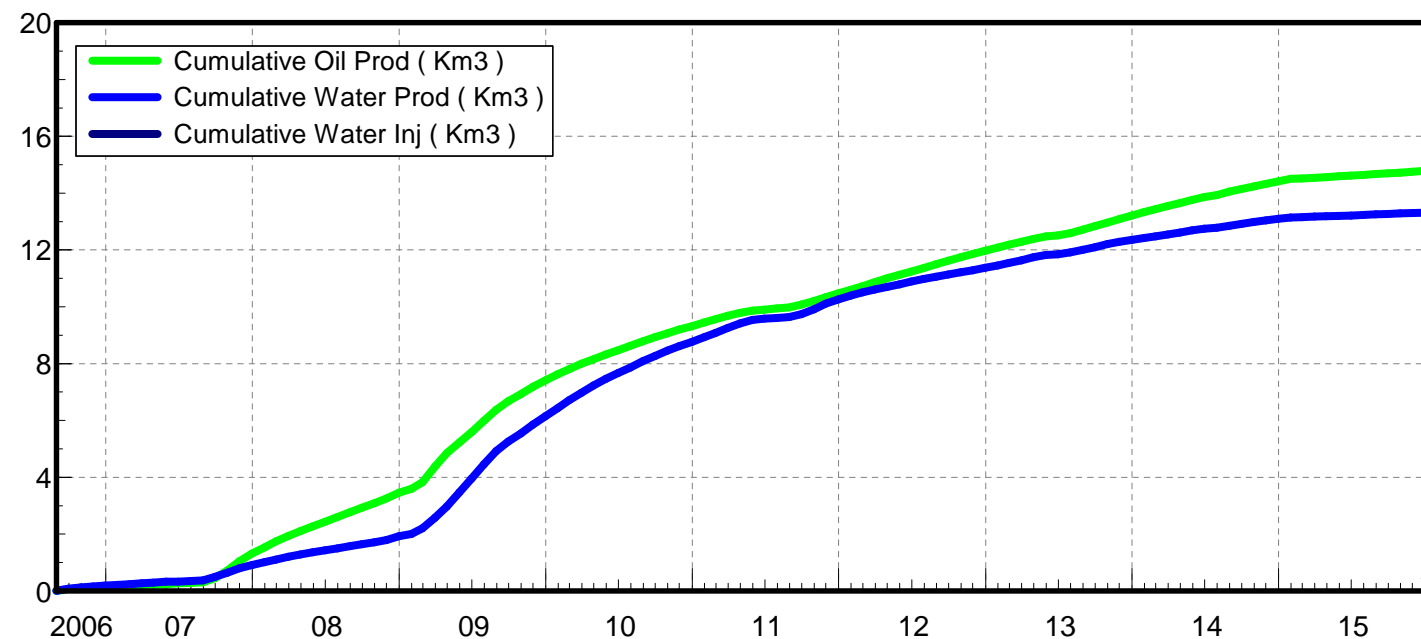
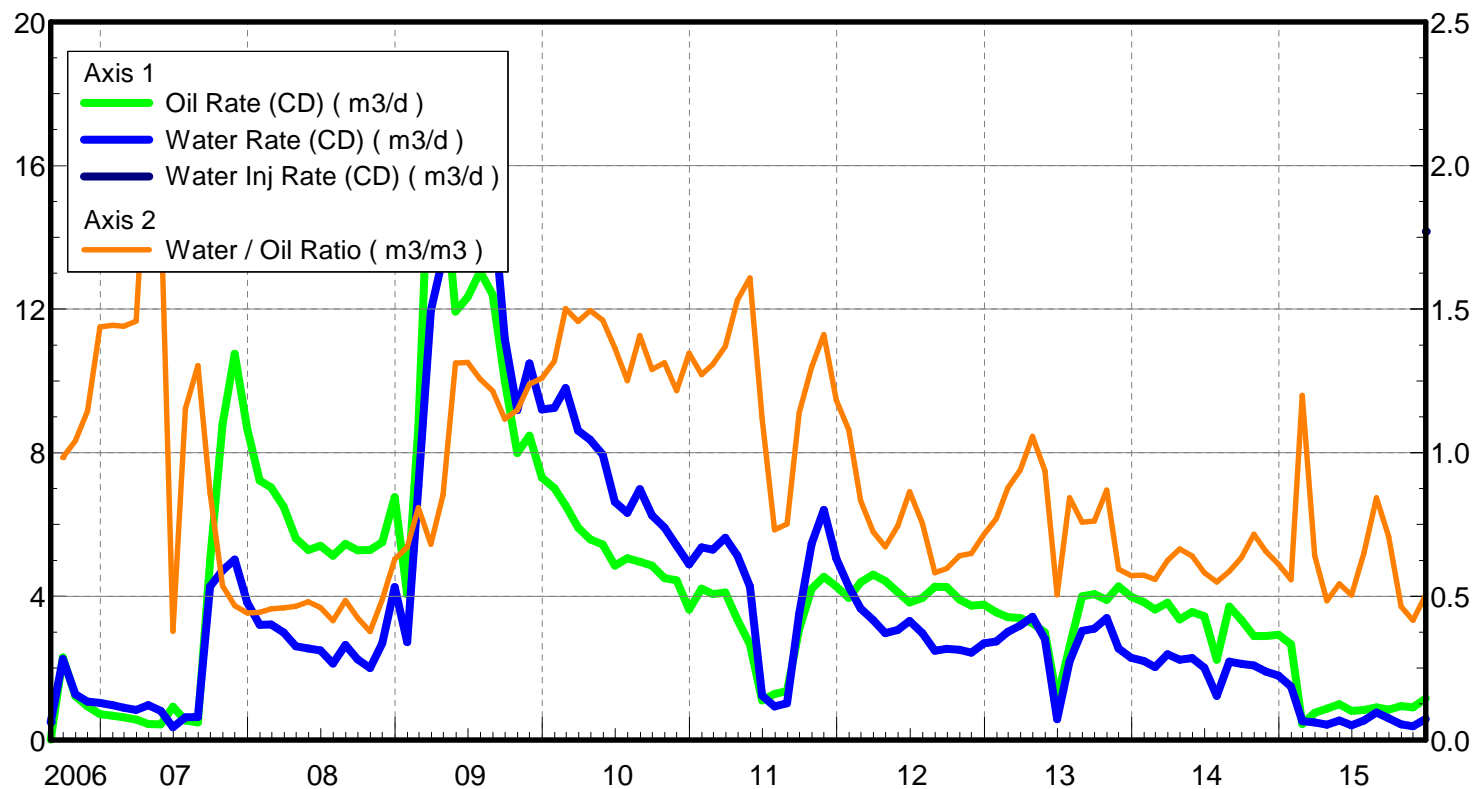


Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	VRR	Cum VRR
7/31/2006					0.00	0.00	0.00		
8/31/2006	0.02	0.49	30.50		0.00	0.02	0.00	0.000	0.000
9/30/2006	2.29	2.25	0.98		0.07	0.08	0.00	0.000	0.000
10/31/2006	1.22	1.27	1.04		0.11	0.12	0.00	0.000	0.000
11/30/2006	0.93	1.07	1.14		0.14	0.15	0.00	0.000	0.000
12/31/2006	0.71	1.03	1.44		0.16	0.19	0.00	0.000	0.000
1/31/2007	0.67	0.97	1.44		0.18	0.22	0.00	0.000	0.000
2/28/2007	0.63	0.90	1.44		0.20	0.24	0.00	0.000	0.000
3/31/2007	6.07	4.98	0.82		0.38	0.40	0.00	0.000	0.000
4/30/2007	7.38	3.38	0.46		0.61	0.50	0.00	0.000	0.000
5/31/2007	6.22	2.68	0.43		0.80	0.58	0.00	0.000	0.000
6/30/2007	6.03	1.78	0.29		0.98	0.63	0.00	0.000	0.000
7/31/2007	4.78	2.21	0.46		1.13	0.70	0.00	0.000	0.000
8/31/2007	4.44	2.08	0.47		1.26	0.77	0.00	0.000	0.000
9/30/2007	7.51	4.39	0.58		1.49	0.90	0.00	0.000	0.000
10/31/2007	10.54	4.31	0.41		1.82	1.03	0.00	0.000	0.000
11/30/2007	11.21	4.04	0.36		2.15	1.15	0.00	0.000	0.000
12/31/2007	9.88	4.51	0.46		2.46	1.29	0.00	0.000	0.000
1/31/2008	11.46	4.78	0.42		2.81	1.44	0.00	0.000	0.000
2/29/2008	10.96	4.44	0.41		3.13	1.57	0.00	0.000	0.000
3/31/2008	10.02	4.30	0.43		3.44	1.70	0.00	0.000	0.000
4/30/2008	10.09	4.46	0.44		3.75	1.84	0.00	0.000	0.000
5/31/2008	8.73	4.32	0.50		4.02	1.97	0.00	0.000	0.000
6/30/2008	8.56	3.80	0.44		4.27	2.08	0.00	0.000	0.000
7/31/2008	8.05	3.24	0.40		4.52	2.19	0.00	0.000	0.000
8/31/2008	8.67	4.33	0.50		4.79	2.32	0.00	0.000	0.000
9/30/2008	8.15	3.79	0.47		5.04	2.43	0.00	0.000	0.000
10/31/2008	8.21	3.54	0.43		5.29	2.54	0.00	0.000	0.000
11/30/2008	8.45	4.05	0.48		5.54	2.66	0.00	0.000	0.000
12/31/2008	9.36	5.38	0.58		5.83	2.83	0.00	0.000	0.000
1/31/2009	8.84	4.13	0.47		6.11	2.96	0.00	0.000	0.000
2/28/2009	8.57	3.74	0.44		6.35	3.06	0.00	0.000	0.000
3/31/2009	8.00	3.71	0.46		6.60	3.18	0.00	0.000	0.000
4/30/2009	8.11	3.55	0.44		6.84	3.29	0.00	0.000	0.000
5/31/2009	7.04	2.64	0.38		7.06	3.37	0.00	0.000	0.000
6/30/2009	7.68	2.78	0.36		7.29	3.45	0.00	0.000	0.000
7/31/2009	7.94	2.80	0.35		7.53	3.54	0.00	0.000	0.000
8/31/2009	7.39	2.70	0.36		7.76	3.62	0.00	0.000	0.000
9/30/2009	6.62	2.63	0.40		7.96	3.70	0.00	0.000	0.000
10/31/2009	6.27	2.49	0.40		8.16	3.78	0.00	0.000	0.000
11/30/2009	6.03	2.37	0.39		8.34	3.85	0.00	0.000	0.000
12/31/2009	5.68	2.24	0.39		8.51	3.92	0.00	0.000	0.000
1/31/2010	5.79	2.35	0.41		8.69	3.99	0.00	0.000	0.000
2/28/2010	5.40	2.50	0.46		8.84	4.06	0.00	0.000	0.000
3/31/2010	5.19	2.32	0.45		9.00	4.13	0.00	0.000	0.000
4/30/2010	5.02	2.15	0.43		9.15	4.20	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	VRR	Cum VRR
5/31/2010	5.04	2.12	0.42		9.31	4.26	0.00	0.000	0.000
6/30/2010	4.73	1.87	0.39		9.45	4.32	0.00	0.000	0.000
7/31/2010	4.31	2.41	0.56		9.59	4.39	0.00	0.000	0.000
8/31/2010	4.28	2.66	0.62		9.72	4.48	0.00	0.000	0.000
9/30/2010	4.46	2.20	0.49		9.85	4.54	0.00	0.000	0.000
10/31/2010	4.13	2.12	0.51		9.98	4.61	0.00	0.000	0.000
11/30/2010	4.38	1.81	0.41		10.11	4.66	0.00	0.000	0.000
12/31/2010	2.34	1.07	0.46		10.19	4.70	0.00	0.000	0.000
1/31/2011	4.43	2.03	0.46		10.32	4.76	0.00	0.000	0.000
2/28/2011	5.60	2.10	0.38		10.48	4.82	0.00	0.000	0.000
3/31/2011	5.26	1.92	0.37		10.64	4.88	0.00	0.000	0.000
4/30/2011	4.40	1.81	0.41		10.77	4.93	0.00	0.000	0.000
5/31/2011	4.71	2.11	0.45		10.92	5.00	0.00	0.000	0.000
6/30/2011	4.30	1.90	0.44		11.05	5.05	0.00	0.000	0.000
7/31/2011	5.35	1.58	0.30		11.22	5.10	0.00	0.000	0.000
8/31/2011	5.17	1.66	0.32		11.38	5.15	0.00	0.000	0.000
9/30/2011	3.92	1.38	0.35		11.49	5.20	0.00	0.000	0.000
10/31/2011	6.27	2.04	0.32		11.69	5.26	0.00	0.000	0.000
11/30/2011	5.91	2.54	0.43		11.86	5.33	0.00	0.000	0.000
12/31/2011	5.82	2.03	0.35		12.05	5.40	0.00	0.000	0.000
1/31/2012	5.39	1.89	0.35		12.21	5.46	0.00	0.000	0.000
2/29/2012	5.48	1.73	0.32		12.37	5.51	0.00	0.000	0.000
3/31/2012	5.49	1.76	0.32		12.54	5.56	0.00	0.000	0.000
4/30/2012	5.43	1.71	0.31		12.70	5.61	0.00	0.000	0.000
5/31/2012	5.18	1.73	0.33		12.87	5.67	0.00	0.000	0.000
6/30/2012	5.16	1.78	0.35		13.02	5.72	0.00	0.000	0.000
7/31/2012	5.05	1.81	0.36		13.18	5.78	0.00	0.000	0.000
8/31/2012	4.75	1.75	0.37		13.32	5.83	0.00	0.000	0.000
9/30/2012	4.93	2.00	0.40		13.47	5.89	0.00	0.000	0.000
10/31/2012	4.91	1.83	0.37		13.62	5.95	0.00	0.000	0.000
11/30/2012	5.03	1.83	0.36		13.77	6.00	0.00	0.000	0.000
12/31/2012	4.65	1.85	0.40		13.92	6.06	0.00	0.000	0.000
1/31/2013	4.67	1.64	0.35		14.06	6.11	0.00	0.000	0.000
2/28/2013	4.65	1.67	0.36		14.19	6.16	0.00	0.000	0.000
3/31/2013	4.57	1.60	0.35		14.34	6.21	0.00	0.000	0.000
4/30/2013	4.49	1.63	0.36		14.47	6.25	0.00	0.000	0.000
5/31/2013	4.77	1.53	0.32		14.62	6.30	0.00	0.000	0.000
6/30/2013	4.77	1.32	0.28		14.76	6.34	0.00	0.000	0.000
7/31/2013	3.95	1.21	0.31		14.88	6.38	0.00	0.000	0.000
8/31/2013	4.80	1.30	0.27		15.03	6.42	0.00	0.000	0.000
9/30/2013	5.05	1.33	0.26		15.18	6.46	0.00	0.000	0.000
10/31/2013	5.00	1.34	0.27		15.34	6.50	0.00	0.000	0.000
11/30/2013	4.94	1.28	0.26		15.49	6.54	0.00	0.000	0.000
12/31/2013	5.04	1.33	0.26		15.64	6.58	0.00	0.000	0.000
1/31/2014	4.33	1.20	0.28		15.78	6.62	0.00	0.000	0.000
2/28/2014	4.38	1.14	0.26		15.90	6.65	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	VRR	Cum VRR
3/31/2014	4.46	1.28	0.29		16.04	6.69	0.00	0.000	0.000
4/30/2014	4.33	1.26	0.29		16.17	6.73	0.00	0.000	0.000
5/31/2014	4.10	1.17	0.28		16.30	6.76	0.00	0.000	0.000
6/30/2014	3.85	1.13	0.29		16.41	6.80	0.00	0.000	0.000
7/31/2014	3.81	1.08	0.28		16.53	6.83	0.00	0.000	0.000
8/31/2014	4.32	1.49	0.35		16.66	6.88	0.00	0.000	0.000
9/30/2014	3.96	1.32	0.33		16.78	6.92	0.00	0.000	0.000
10/31/2014	3.72	1.31	0.35		16.90	6.96	0.00	0.000	0.000
11/30/2014	3.74	1.30	0.35		17.01	7.00	0.00	0.000	0.000
12/31/2014	3.78	1.20	0.32		17.13	7.03	0.00	0.000	0.000
1/31/2015	2.95	0.78	0.27		17.22	7.06	0.00	0.000	0.000
2/28/2015	5.01	6.50	1.30		17.36	7.24	0.00	0.000	0.000
3/31/2015	9.81	9.58	0.98		17.66	7.54	0.00	0.000	0.000
4/30/2015	14.95	7.46	0.50		18.11	7.76	0.00	0.000	0.000
5/31/2015	12.83	8.82	0.69		18.51	8.03	0.00	0.000	0.000
6/30/2015	11.47	8.49	0.74		18.85	8.29	0.00	0.000	0.000
7/31/2015	12.14	11.24	0.93		19.23	8.64	0.00	0.000	0.000
8/31/2015	11.94	12.56	1.05		19.60	9.03	0.00	0.000	0.000
9/30/2015	11.54	12.23	1.06		19.95	9.39	0.00	0.000	0.000
10/31/2015	11.20	10.76	0.96		20.29	9.73	0.00	0.000	0.000
11/30/2015	10.84	10.68	0.99		20.62	10.05	0.00	0.000	0.000
12/31/2015	12.04	10.21	0.85		20.99	10.36	0.00	0.000	0.000

Oil Formation Vol Factor : 1.00150 m³/m³ Pattern: 00/08-20-007-28Inj Set: EwartUnit#8 Oil Rate (CD) : 1.04 m³/d
 Water Formation Vol Factor : 1.00150 m³/m³ April 01, 2016 Water Rate (CD) : 0.64 m³/d
 Water / Oil Ratio : 0.61 m³/m³ Operator: Tundra_O&G_Prtshp Water Inj Rate (CD) : 28.42 m³/d

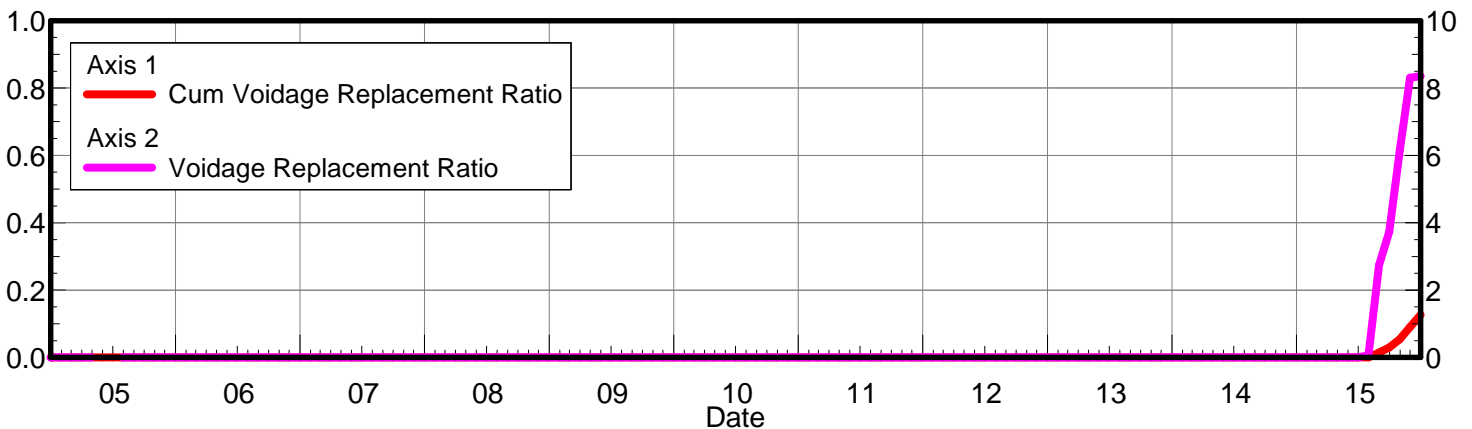
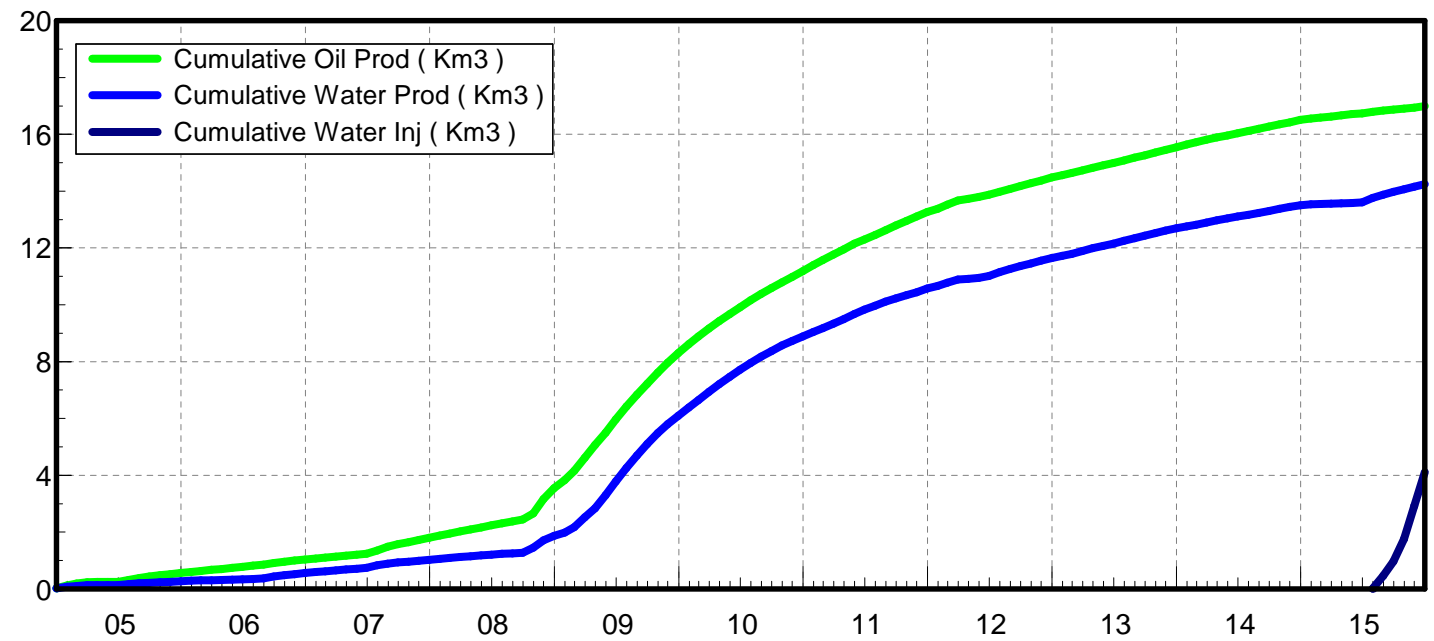
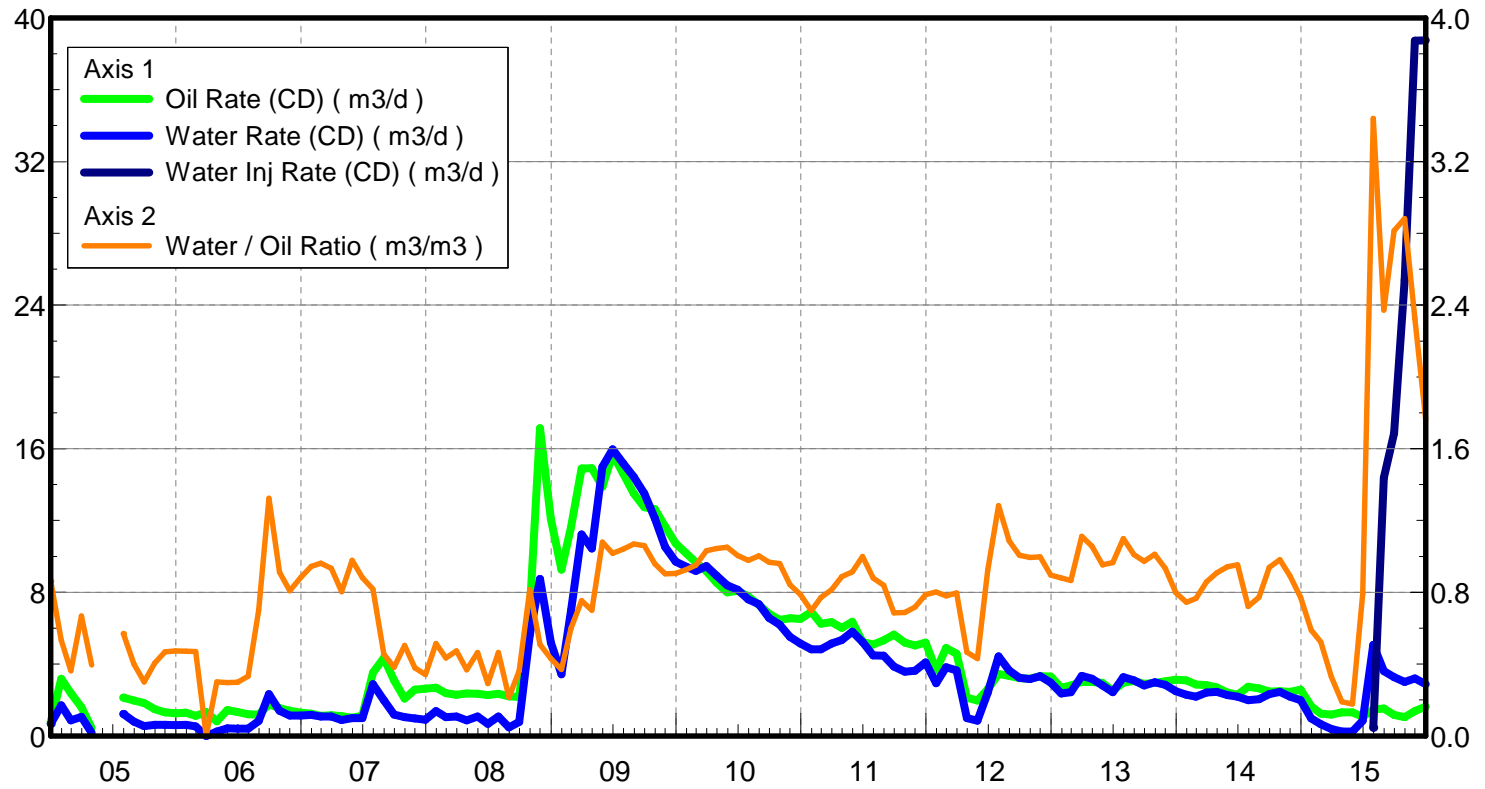


Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	VRR	Cum VRR
7/31/2006					0.00	0.00	0.00		
8/31/2006	0.02	0.49	30.50		0.00	0.02	0.00	0.000	0.000
9/30/2006	2.29	2.25	0.98		0.07	0.08	0.00	0.000	0.000
10/31/2006	1.22	1.27	1.04		0.11	0.12	0.00	0.000	0.000
11/30/2006	0.93	1.07	1.14		0.14	0.15	0.00	0.000	0.000
12/31/2006	0.71	1.03	1.44		0.16	0.19	0.00	0.000	0.000
1/31/2007	0.67	0.97	1.44		0.18	0.22	0.00	0.000	0.000
2/28/2007	0.63	0.90	1.44		0.20	0.24	0.00	0.000	0.000
3/31/2007	0.57	0.83	1.46		0.21	0.27	0.00	0.000	0.000
4/30/2007	0.44	0.97	2.18		0.23	0.30	0.00	0.000	0.000
5/31/2007	0.44	0.81	1.86		0.24	0.32	0.00	0.000	0.000
6/30/2007	0.93	0.35	0.38		0.27	0.33	0.00	0.000	0.000
7/31/2007	0.54	0.63	1.15		0.28	0.35	0.00	0.000	0.000
8/31/2007	0.49	0.64	1.30		0.30	0.37	0.00	0.000	0.000
9/30/2007	4.98	4.28	0.86		0.45	0.50	0.00	0.000	0.000
10/31/2007	8.79	4.72	0.54		0.72	0.65	0.00	0.000	0.000
11/30/2007	10.76	5.03	0.47		1.04	0.80	0.00	0.000	0.000
12/31/2007	8.67	3.83	0.44		1.31	0.92	0.00	0.000	0.000
1/31/2008	7.22	3.21	0.44		1.54	1.01	0.00	0.000	0.000
2/29/2008	7.03	3.21	0.46		1.74	1.11	0.00	0.000	0.000
3/31/2008	6.50	2.99	0.46		1.94	1.20	0.00	0.000	0.000
4/30/2008	5.62	2.61	0.46		2.11	1.28	0.00	0.000	0.000
5/31/2008	5.30	2.55	0.48		2.27	1.36	0.00	0.000	0.000
6/30/2008	5.41	2.49	0.46		2.44	1.43	0.00	0.000	0.000
7/31/2008	5.13	2.13	0.41		2.60	1.50	0.00	0.000	0.000
8/31/2008	5.46	2.65	0.48		2.77	1.58	0.00	0.000	0.000
9/30/2008	5.29	2.25	0.42		2.92	1.65	0.00	0.000	0.000
10/31/2008	5.30	2.00	0.38		3.09	1.71	0.00	0.000	0.000
11/30/2008	5.50	2.69	0.49		3.25	1.79	0.00	0.000	0.000
12/31/2008	6.76	4.25	0.63		3.46	1.92	0.00	0.000	0.000
1/31/2009	4.06	2.73	0.67		3.59	2.01	0.00	0.000	0.000
2/28/2009	8.74	7.07	0.81		3.83	2.20	0.00	0.000	0.000
3/31/2009	17.55	11.96	0.68		4.38	2.58	0.00	0.000	0.000
4/30/2009	15.78	13.45	0.85		4.85	2.98	0.00	0.000	0.000
5/31/2009	11.93	15.66	1.31		5.22	3.46	0.00	0.000	0.000
6/30/2009	12.33	16.22	1.31		5.59	3.95	0.00	0.000	0.000
7/31/2009	13.05	16.39	1.26		5.99	4.46	0.00	0.000	0.000
8/31/2009	12.40	15.07	1.22		6.38	4.93	0.00	0.000	0.000
9/30/2009	10.00	11.17	1.12		6.68	5.26	0.00	0.000	0.000
10/31/2009	8.00	9.18	1.15		6.93	5.55	0.00	0.000	0.000
11/30/2009	8.47	10.49	1.24		7.18	5.86	0.00	0.000	0.000
12/31/2009	7.31	9.21	1.26		7.41	6.15	0.00	0.000	0.000
1/31/2010	7.01	9.25	1.32		7.62	6.43	0.00	0.000	0.000
2/28/2010	6.53	9.80	1.50		7.81	6.71	0.00	0.000	0.000
3/31/2010	5.91	8.61	1.46		7.99	6.97	0.00	0.000	0.000
4/30/2010	5.59	8.36	1.50		8.16	7.22	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	VRR	Cum VRR
5/31/2010	5.44	7.95	1.46		8.33	7.47	0.00	0.000	0.000
6/30/2010	4.86	6.63	1.36		8.47	7.67	0.00	0.000	0.000
7/31/2010	5.06	6.32	1.25		8.63	7.87	0.00	0.000	0.000
8/31/2010	4.96	6.98	1.41		8.78	8.08	0.00	0.000	0.000
9/30/2010	4.85	6.26	1.29		8.93	8.27	0.00	0.000	0.000
10/31/2010	4.50	5.92	1.31		9.07	8.45	0.00	0.000	0.000
11/30/2010	4.44	5.40	1.22		9.20	8.62	0.00	0.000	0.000
12/31/2010	3.63	4.89	1.35		9.31	8.77	0.00	0.000	0.000
1/31/2011	4.22	5.36	1.27		9.44	8.93	0.00	0.000	0.000
2/28/2011	4.06	5.30	1.31		9.56	9.08	0.00	0.000	0.000
3/31/2011	4.11	5.63	1.37		9.69	9.26	0.00	0.000	0.000
4/30/2011	3.35	5.13	1.53		9.79	9.41	0.00	0.000	0.000
5/31/2011	2.66	4.28	1.61		9.87	9.54	0.00	0.000	0.000
6/30/2011	1.11	1.24	1.12		9.90	9.58	0.00	0.000	0.000
7/31/2011	1.28	0.94	0.73		9.94	9.61	0.00	0.000	0.000
8/31/2011	1.36	1.02	0.75		9.98	9.64	0.00	0.000	0.000
9/30/2011	3.09	3.52	1.14		10.08	9.75	0.00	0.000	0.000
10/31/2011	4.21	5.47	1.30		10.21	9.92	0.00	0.000	0.000
11/30/2011	4.54	6.40	1.41		10.34	10.11	0.00	0.000	0.000
12/31/2011	4.27	5.05	1.18		10.48	10.26	0.00	0.000	0.000
1/31/2012	3.96	4.27	1.08		10.60	10.40	0.00	0.000	0.000
2/29/2012	4.39	3.66	0.83		10.73	10.50	0.00	0.000	0.000
3/31/2012	4.60	3.34	0.72		10.87	10.61	0.00	0.000	0.000
4/30/2012	4.42	2.98	0.67		11.00	10.70	0.00	0.000	0.000
5/31/2012	4.12	3.06	0.74		11.13	10.79	0.00	0.000	0.000
6/30/2012	3.83	3.31	0.86		11.24	10.89	0.00	0.000	0.000
7/31/2012	3.95	2.98	0.75		11.37	10.98	0.00	0.000	0.000
8/31/2012	4.27	2.49	0.58		11.50	11.06	0.00	0.000	0.000
9/30/2012	4.26	2.54	0.60		11.63	11.14	0.00	0.000	0.000
10/31/2012	3.91	2.51	0.64		11.75	11.21	0.00	0.000	0.000
11/30/2012	3.74	2.43	0.65		11.86	11.29	0.00	0.000	0.000
12/31/2012	3.76	2.69	0.71		11.98	11.37	0.00	0.000	0.000
1/31/2013	3.56	2.74	0.77		12.09	11.45	0.00	0.000	0.000
2/28/2013	3.42	3.01	0.88		12.18	11.54	0.00	0.000	0.000
3/31/2013	3.39	3.19	0.94		12.29	11.64	0.00	0.000	0.000
4/30/2013	3.25	3.43	1.06		12.39	11.74	0.00	0.000	0.000
5/31/2013	2.99	2.80	0.94		12.48	11.83	0.00	0.000	0.000
6/30/2013	1.15	0.58	0.51		12.51	11.84	0.00	0.000	0.000
7/31/2013	2.60	2.19	0.84		12.59	11.91	0.00	0.000	0.000
8/31/2013	4.00	3.04	0.76		12.72	12.01	0.00	0.000	0.000
9/30/2013	4.07	3.10	0.76		12.84	12.10	0.00	0.000	0.000
10/31/2013	3.90	3.40	0.87		12.96	12.21	0.00	0.000	0.000
11/30/2013	4.28	2.54	0.59		13.09	12.28	0.00	0.000	0.000
12/31/2013	3.99	2.29	0.57		13.21	12.35	0.00	0.000	0.000
1/31/2014	3.84	2.20	0.57		13.33	12.42	0.00	0.000	0.000
2/28/2014	3.64	2.03	0.56		13.43	12.48	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	VRR	Cum VRR
3/31/2014	3.82	2.39	0.62		13.55	12.55	0.00	0.000	0.000
4/30/2014	3.36	2.23	0.66		13.65	12.62	0.00	0.000	0.000
5/31/2014	3.56	2.28	0.64		13.76	12.69	0.00	0.000	0.000
6/30/2014	3.45	2.01	0.58		13.87	12.75	0.00	0.000	0.000
7/31/2014	2.23	1.23	0.55		13.93	12.79	0.00	0.000	0.000
8/31/2014	3.71	2.18	0.59		14.05	12.85	0.00	0.000	0.000
9/30/2014	3.34	2.12	0.63		14.15	12.92	0.00	0.000	0.000
10/31/2014	2.90	2.07	0.72		14.24	12.98	0.00	0.000	0.000
11/30/2014	2.89	1.90	0.66		14.33	13.04	0.00	0.000	0.000
12/31/2014	2.93	1.79	0.61		14.42	13.10	0.00	0.000	0.000
1/31/2015	2.66	1.48	0.56		14.50	13.14	0.00	0.000	0.000
2/28/2015	0.44	0.53	1.20		14.51	13.16	0.00	0.000	0.000
3/31/2015	0.76	0.49	0.64		14.54	13.17	0.00	0.000	0.000
4/30/2015	0.87	0.42	0.48		14.56	13.18	0.00	0.000	0.000
5/31/2015	0.99	0.54	0.54		14.59	13.20	0.00	0.000	0.000
6/30/2015	0.80	0.41	0.50		14.62	13.21	0.00	0.000	0.000
7/31/2015	0.83	0.54	0.65		14.64	13.23	0.00	0.000	0.000
8/31/2015	0.90	0.76	0.84		14.67	13.25	0.00	0.000	0.000
9/30/2015	0.85	0.60	0.71		14.70	13.27	0.00	0.000	0.000
10/31/2015	0.94	0.44	0.46		14.72	13.28	0.00	0.000	0.000
11/30/2015	0.91	0.38	0.42		14.75	13.30	0.00	0.000	0.000
12/31/2015	1.15	0.58	0.50	14.16	14.79	13.31	0.44	7.800	0.015

Oil Formation Vol Factor : 1.00150 m³/m³ Pattern : 00/09-20-007-28Inj Set: EwartUnit#8 Oil Rate (CD) : 1.75 m³/d
 Water Formation Vol Factor : 1.00150 m³/m³ March 31, 2016 Water Rate (CD) : 3.95 m³/d
 Water / Oil Ratio : 2.26 m³/m³ Operator: Tundra_O&G_Prtshp Water Inj Rate (CD) : 31.03 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	VRR	Cum VRR
7/31/2006	1.20	0.40	0.33		0.82	0.35	0.00	0.000	0.000
8/31/2006	1.19	0.84	0.70		0.85	0.37	0.00	0.000	0.000
9/30/2006	1.76	2.33	1.32		0.91	0.44	0.00	0.000	0.000
10/31/2006	1.54	1.40	0.91		0.95	0.49	0.00	0.000	0.000
11/30/2006	1.40	1.13	0.81		1.00	0.52	0.00	0.000	0.000
12/31/2006	1.30	1.14	0.88		1.04	0.56	0.00	0.000	0.000
1/31/2007	1.23	1.16	0.94		1.08	0.59	0.00	0.000	0.000
2/28/2007	1.12	1.08	0.96		1.11	0.62	0.00	0.000	0.000
3/31/2007	1.15	1.07	0.93		1.14	0.66	0.00	0.000	0.000
4/30/2007	1.10	0.88	0.80		1.18	0.68	0.00	0.000	0.000
5/31/2007	1.01	0.99	0.98		1.21	0.71	0.00	0.000	0.000
6/30/2007	1.23	1.00	0.82		1.24	0.74	0.00	0.000	0.000
7/31/2007	6.09	5.00	0.82		1.43	0.90	0.00	0.000	0.000
8/31/2007	7.67	3.24	0.42		1.67	1.00	0.00	0.000	0.000
9/30/2007	5.33	2.05	0.38		1.83	1.06	0.00	0.000	0.000
10/31/2007	3.51	1.66	0.47		1.94	1.11	0.00	0.000	0.000
11/30/2007	4.53	1.68	0.37		2.07	1.16	0.00	0.000	0.000
12/31/2007	4.56	1.59	0.35		2.22	1.21	0.00	0.000	0.000
1/31/2008	4.55	2.07	0.45		2.36	1.28	0.00	0.000	0.000
2/29/2008	4.03	1.62	0.40		2.47	1.32	0.00	0.000	0.000
3/31/2008	3.78	1.57	0.41		2.59	1.37	0.00	0.000	0.000
4/30/2008	3.92	1.39	0.35		2.71	1.41	0.00	0.000	0.000
5/31/2008	3.94	1.60	0.41		2.83	1.46	0.00	0.000	0.000
6/30/2008	3.84	1.10	0.29		2.95	1.50	0.00	0.000	0.000
7/31/2008	3.93	1.52	0.39		3.07	1.54	0.00	0.000	0.000
8/31/2008	3.65	0.64	0.18		3.18	1.56	0.00	0.000	0.000
9/30/2008	3.62	0.95	0.26		3.29	1.59	0.00	0.000	0.000
10/31/2008	8.32	5.79	0.70		3.55	1.77	0.00	0.000	0.000
11/30/2008	18.40	8.98	0.49		4.10	2.04	0.00	0.000	0.000
12/31/2008	13.18	5.53	0.42		4.51	2.21	0.00	0.000	0.000
1/31/2009	10.36	3.81	0.37		4.83	2.33	0.00	0.000	0.000
2/28/2009	12.70	7.37	0.58		5.18	2.54	0.00	0.000	0.000
3/31/2009	15.87	11.56	0.73		5.68	2.89	0.00	0.000	0.000
4/30/2009	15.95	10.76	0.67		6.16	3.22	0.00	0.000	0.000
5/31/2009	14.65	15.29	1.04		6.61	3.69	0.00	0.000	0.000
6/30/2009	16.47	16.27	0.99		7.10	4.18	0.00	0.000	0.000
7/31/2009	15.31	15.46	1.01		7.58	4.66	0.00	0.000	0.000
8/31/2009	14.18	14.68	1.04		8.02	5.11	0.00	0.000	0.000
9/30/2009	13.37	13.77	1.03		8.42	5.53	0.00	0.000	0.000
10/31/2009	13.27	12.43	0.94		8.83	5.91	0.00	0.000	0.000
11/30/2009	12.31	10.82	0.88		9.20	6.24	0.00	0.000	0.000
12/31/2009	11.37	9.97	0.88		9.55	6.55	0.00	0.000	0.000
1/31/2010	10.75	9.74	0.91		9.89	6.85	0.00	0.000	0.000
2/28/2010	10.23	9.52	0.93		10.17	7.11	0.00	0.000	0.000
3/31/2010	9.67	9.80	1.01		10.47	7.42	0.00	0.000	0.000
4/30/2010	9.07	9.31	1.03		10.74	7.70	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	VRR	Cum VRR
5/31/2010	8.50	8.66	1.02		11.01	7.97	0.00	0.000	0.000
6/30/2010	8.63	8.38	0.97		11.27	8.22	0.00	0.000	0.000
7/31/2010	8.27	7.85	0.95		11.52	8.46	0.00	0.000	0.000
8/31/2010	7.72	7.56	0.98		11.76	8.69	0.00	0.000	0.000
9/30/2010	7.15	6.85	0.96		11.98	8.90	0.00	0.000	0.000
10/31/2010	6.88	6.58	0.96		12.19	9.10	0.00	0.000	0.000
11/30/2010	6.99	5.79	0.83		12.40	9.28	0.00	0.000	0.000
12/31/2010	6.96	5.39	0.77		12.61	9.45	0.00	0.000	0.000
1/31/2011	7.34	5.04	0.69		12.84	9.60	0.00	0.000	0.000
2/28/2011	6.73	5.01	0.74		13.03	9.74	0.00	0.000	0.000
3/31/2011	6.85	5.35	0.78		13.24	9.91	0.00	0.000	0.000
4/30/2011	6.47	5.53	0.85		13.44	10.07	0.00	0.000	0.000
5/31/2011	6.82	6.00	0.88		13.65	10.26	0.00	0.000	0.000
6/30/2011	5.63	5.51	0.98		13.82	10.42	0.00	0.000	0.000
7/31/2011	5.49	4.67	0.85		13.99	10.57	0.00	0.000	0.000
8/31/2011	5.70	4.58	0.80		14.16	10.71	0.00	0.000	0.000
9/30/2011	6.08	4.00	0.66		14.35	10.83	0.00	0.000	0.000
10/31/2011	5.68	3.78	0.67		14.52	10.95	0.00	0.000	0.000
11/30/2011	5.37	3.76	0.70		14.68	11.06	0.00	0.000	0.000
12/31/2011	5.51	4.14	0.75		14.86	11.19	0.00	0.000	0.000
1/31/2012	3.96	2.99	0.75		14.98	11.28	0.00	0.000	0.000
2/29/2012	5.23	3.87	0.74		15.13	11.39	0.00	0.000	0.000
3/31/2012	5.08	3.70	0.73		15.29	11.51	0.00	0.000	0.000
4/30/2012	2.66	1.05	0.40		15.37	11.54	0.00	0.000	0.000
5/31/2012	2.47	0.94	0.38		15.44	11.57	0.00	0.000	0.000
6/30/2012	3.01	2.50	0.83		15.53	11.64	0.00	0.000	0.000
7/31/2012	3.80	4.53	1.19		15.65	11.79	0.00	0.000	0.000
8/31/2012	3.77	3.78	1.00		15.77	11.90	0.00	0.000	0.000
9/30/2012	3.59	3.38	0.94		15.88	12.00	0.00	0.000	0.000
10/31/2012	3.49	3.28	0.94		15.98	12.11	0.00	0.000	0.000
11/30/2012	3.68	3.44	0.93		16.09	12.21	0.00	0.000	0.000
12/31/2012	3.70	3.08	0.83		16.21	12.30	0.00	0.000	0.000
1/31/2013	3.06	2.50	0.82		16.30	12.38	0.00	0.000	0.000
2/28/2013	3.21	2.56	0.80		16.39	12.45	0.00	0.000	0.000
3/31/2013	3.40	3.45	1.02		16.50	12.56	0.00	0.000	0.000
4/30/2013	3.38	3.28	0.97		16.60	12.66	0.00	0.000	0.000
5/31/2013	3.33	2.91	0.87		16.70	12.75	0.00	0.000	0.000
6/30/2013	2.82	2.50	0.89		16.79	12.82	0.00	0.000	0.000
7/31/2013	3.35	3.38	1.01		16.89	12.93	0.00	0.000	0.000
8/31/2013	3.45	3.20	0.93		17.00	13.03	0.00	0.000	0.000
9/30/2013	3.18	2.90	0.91		17.09	13.12	0.00	0.000	0.000
10/31/2013	3.27	3.17	0.97		17.20	13.21	0.00	0.000	0.000
11/30/2013	3.37	3.04	0.90		17.30	13.30	0.00	0.000	0.000
12/31/2013	3.43	2.66	0.78		17.40	13.39	0.00	0.000	0.000
1/31/2014	3.37	2.44	0.72		17.51	13.46	0.00	0.000	0.000
2/28/2014	3.19	2.36	0.74		17.60	13.53	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	VRR	Cum VRR
3/31/2014	3.13	2.59	0.83		17.69	13.61	0.00	0.000	0.000
4/30/2014	2.95	2.58	0.87		17.78	13.69	0.00	0.000	0.000
5/31/2014	2.64	2.39	0.91		17.86	13.76	0.00	0.000	0.000
6/30/2014	2.50	2.31	0.92		17.94	13.83	0.00	0.000	0.000
7/31/2014	3.13	2.14	0.69		18.04	13.90	0.00	0.000	0.000
8/31/2014	3.03	2.18	0.72		18.13	13.96	0.00	0.000	0.000
9/30/2014	2.83	2.46	0.87		18.21	14.04	0.00	0.000	0.000
10/31/2014	2.84	2.60	0.92		18.30	14.12	0.00	0.000	0.000
11/30/2014	2.72	2.32	0.85		18.38	14.19	0.00	0.000	0.000
12/31/2014	2.82	2.14	0.76		18.47	14.25	0.00	0.000	0.000
1/31/2015	1.90	1.16	0.61		18.53	14.29	0.00	0.000	0.000
2/28/2015	1.52	0.84	0.55		18.57	14.31	0.00	0.000	0.000
3/31/2015	1.44	0.53	0.37		18.62	14.33	0.00	0.000	0.000
4/30/2015	1.64	0.37	0.22		18.67	14.34	0.00	0.000	0.000
5/31/2015	1.65	0.35	0.21		18.72	14.35	0.00	0.000	0.000
6/30/2015	1.41	0.96	0.68		18.76	14.38	0.00	0.000	0.000
7/31/2015	1.84	5.17	2.82	0.45	18.82	14.54	0.01	0.063	0.000
8/31/2015	1.88	3.71	1.97	14.39	18.88	14.66	0.46	2.513	0.013
9/30/2015	1.24	3.29	2.66	16.87	18.91	14.76	0.97	3.655	0.028
10/31/2015	1.04	3.01	2.88	25.39	18.95	14.85	1.75	6.156	0.050
11/30/2015	1.56	3.24	2.08	38.73	18.99	14.95	2.92	7.891	0.083
12/31/2015	2.08	2.96	1.43	38.74	19.06	15.04	4.12	7.473	0.116