

KOLA UNIT NO. 2
WATERFLOOD EOR PROJECT
ANNUAL REPORT FOR 2014

May 8, 2015

Tundra Oil and Gas Partnership

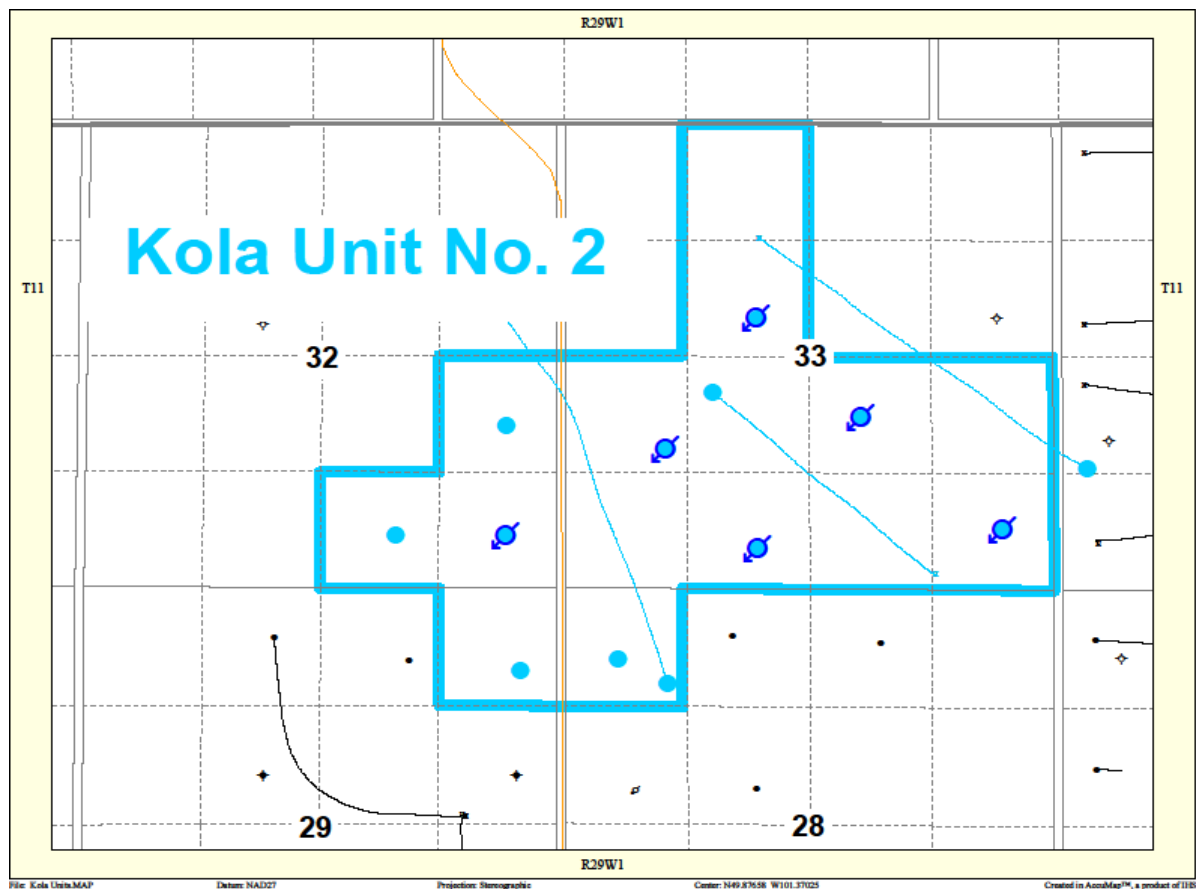
Table of Contents

INTRODUCTION.....	3
DISCUSSION.....	3
Production History	3
Waterflood History.....	5
Waterflood EOR Operating Strategy and Performance	6
Water Source and Quality	6
Injection Wellhead Pressures	5
Reservoir Pressure	6
Well Servicing.....	6
Voidage Replacement	6
Waterflood Performance Discussion	7
List of Appendices.....	8
Appendix A: Kola Unit No. 2 Injection Pattern Summary	
Appendix B: Pressure Summary	
Appendix C: Average Monthly Injection Wellhead Pressures	
Appendix D: Injector Pattern Production/Injection Rates, Cumulative and VRR	
Plots and Table	

INTRODUCTION

Kola Unit No. 2 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Waterflood Order No. 4 effective December 1, 1996 with Tundra Oil and Gas Ltd. as Operator. The EOR project area contains 13 wells in 15 LSDs in Township 10, Range 29 W1 as shown in the figure below.

Figure 1: Kola Unit No. 2 Area Outline



In accordance with Section 73 of the Manitoba Drilling and Production Regulation, Tundra hereby submits the 2014 Annual Progress Report for Kola Unit No. 2 as required by Waterflood Order No 4.

DISCUSSION

Production History

For the wells included in Kola Unit No. 2, production started March 1993 with the 00/16-29-010-29W1/0 well. Oil production peaked at 42.7 m³/d in March of 1998. The

Unit was producing 9.04 m³/d of oil and 12.93 m³/d of water in December 2014. The oil production rate, injection rate, and WOR during each month for each injection pattern and for whole project are presented in Appendix D. The rates and WOR are plotted in Figure 2.

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

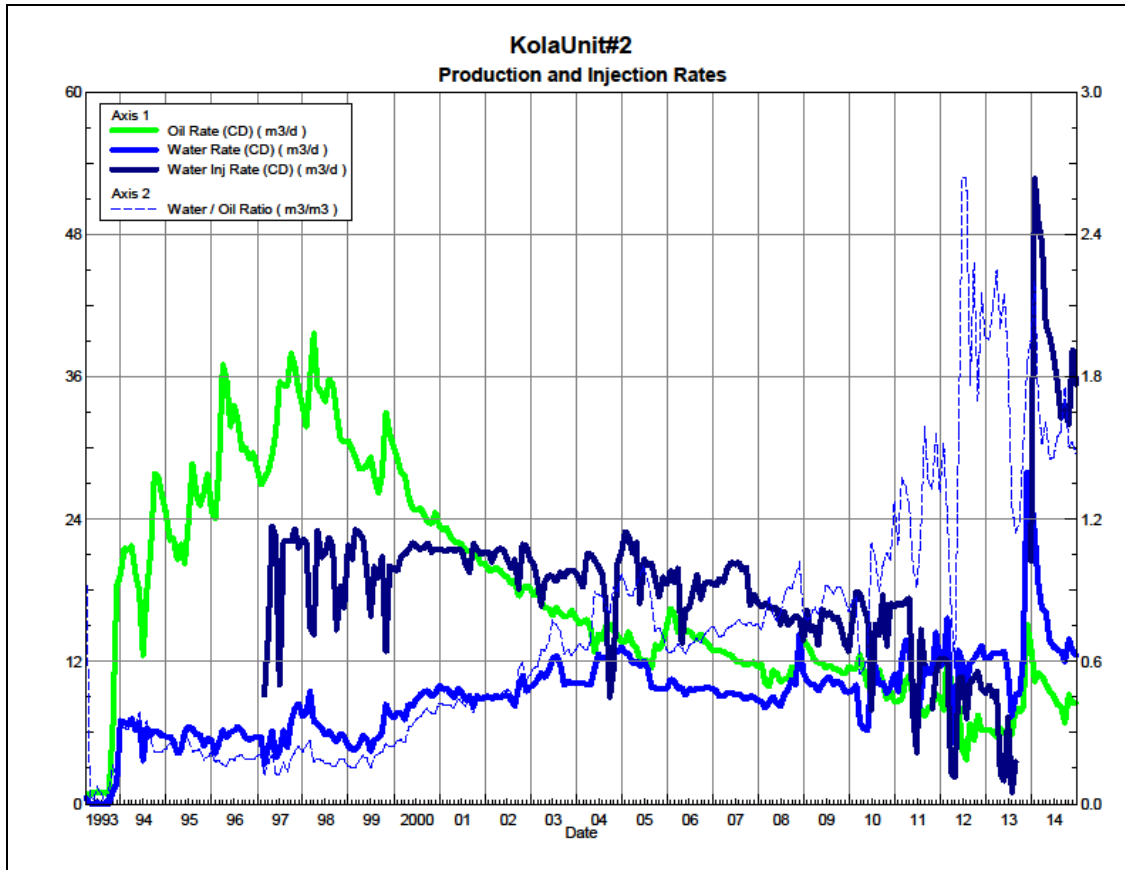
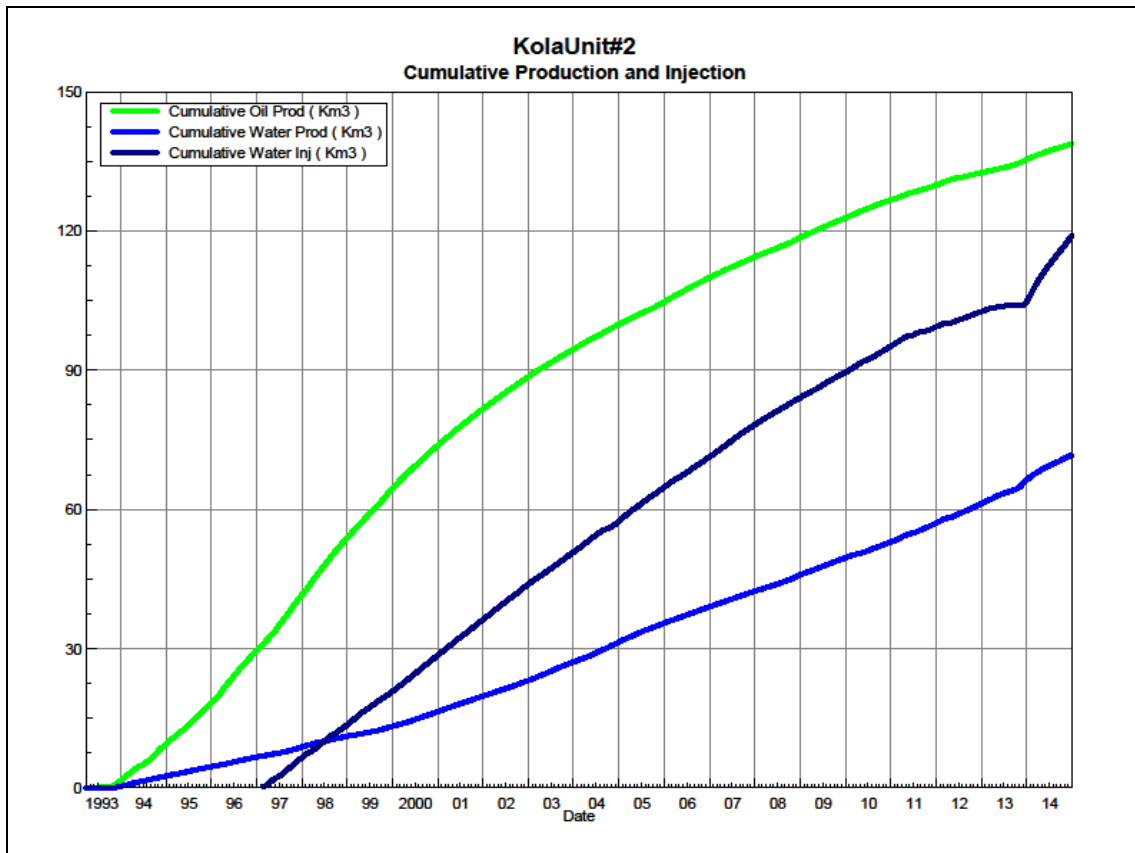


Figure 3 shows the cumulative production for Kola Unit No. 2 to the end of December 2014 as 149.8 e³m³ of oil, and 74.7 e³m³ of water. The cumulative water injected is 119.0 e³m³. The cumulative volume of oil, and water produced and fluid injected for each injection pattern and for the whole project for each injection well is presented in Appendix D.

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



Waterflood History

As of December 2014, the Unit has 6 active vertical injectors and 3 injection patterns in place. Water injection started in February 1997. Until November 2013, water had only been injected through the well at 00/01-32-010-29W1/0. In December 2013, 5 vertical producers were converted to injectors to maximize oil recovery and sweep efficiency between wells. In addition, 2 horizontal producers were drilled at 02/13-28-010-29W1/0 and 02/05-34-010-29W1/0. The 02/13-28 well was left openhole and the 02/05-34 well was fracture stimulated and is a cemented liner completion.

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

Injected fluid consisted of produced water from the Lodgepole formation, from the unit and surrounding area until November 2013. Injection water for Kola Unit No. 1 is now being provided from the Jurassic source water well at 100/02-25-010-29W1 (2-25). Tundra received approval from the Petroleum Branch in March 2013 to use the 2-25 well as a source water well for waterflood operations. Jurassic-sourced water is pumped from the 2-25 source well to the Daly 12-24-10-29 battery, where it is filtered to 50 microns and then pumped up to injection system pressure.

Injection Wellhead Pressures

The average monthly wellhead injection pressures are summarized in Appendix C, and shows all injection pressures since 2003. The average injection pressure for the Unit was 3652 kPag in 2014.

Reservoir Pressure

Where practical, Tundra is committed to collecting pressure data from newly drilled wells. For Kola Unit No. 2, pressure data for the openhole 02/13-28-010-29W1 well is available. Corrected to a common datum of -450 m SS, for comparison with other units in the area, the reservoir pressure is 2916 kPa(a) (Appendix B).

Prior to conversion, Tundra identified the 00/05-33 and 00/07-33 vertical wells, which were drilled in 1996 and 1998 respectively, as good candidates for collecting pressure data. In November 2013, the 00/05-33 and 00/07-33 vertical wells were shut-in and pressure buildup data was collected. The reservoir pressure for 00/05-33 was 1577 kPa(a) suggesting a depleted reservoir. The quality of the data collected from the 00/07-33 well was questionable and therefore not analyzed.

Well Servicing

Table 1 lists the maintenance that was required in Kola Unit No. 2 in 2014.

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

00/16-29-010-29W1/0	Broken Polished Rod / Pump Change	08/08/2014
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Voidage Replacement

Cumulative voidage for the Kola Unit No. 2 was 0.513 in December 2014. Calculation, plots and tables of the Voidage replacement ratio on a monthly and cumulative basis for each injection pattern and for the project area are presented in Appendix D.

Waterflood Performance Discussion

The OOIP of Kola Unit No. 2 is estimated at 1,190.0 e³m³. The recovery factor was 12.6% based on 149.8 e³m³ of cumulative oil recovered to the end of 2014. The ultimate expected recoverable reserve based on decline analysis is 184.0 e³m³ or an ultimate recovery factor of 15.5%.

The overall performance of this waterflood has been good as indicated by an expected recovery factor of 15.5%, beyond the primary recovery factor. Waterflood response is clearly evident in wells in the western part of the Unit. It should be easy to maintain a cumulative voidage of unity. There have been no water breakthrough issues.

Trends in production are very stable and mature. No changes are anticipated in the future trends. The waterflood performance will likely be improved significantly by the addition of the 5 vertical injectors in the east part of the Unit where recovery has been enhanced mainly by the addition of a horizontal well. Also, facility enhancements in the area may play a role in future optimization.

List of Appendices

Appendix A: Kola Unit No. 2 Injection Pattern Summary

Appendix B: Pressure Summary

Appendix C: Average Monthly Injection Wellhead Pressures

Appendix D: Injector Pattern Production/Injection Rates, Cumulative and VRR Plots
and Table for the following injection patterns:

00/01-32-010-29W1/0

00/05-33-010-29W1/0

00/07-33-010-29W1/0

Appendix A

Kola Unit No. 2 Pattern Summary as of December 2014

Pattern Name	Injector Location (010-29W1)	Injector Surf. Location (010-29W1)	Status	No. of Supported Wells	Supported Wells (010-29W1)	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 (E= m³)	Cum Water (E= m³)	Cum Inj Water (E= m³)	Monthly VRR	Cum VRR
00/01-32-010-29W1 Injector	00/01-32	Vertical Wells	WTR Injection	7	13-28, 16-29, 02-32, 08-32, 03-33, 05-33 (Until 12/1/2013)	1	Mar 1993	Feb 1997	2.74	6.27	2.29	6.27	98.10	61.74	104.66	0.69	0.64
					02/13-28 (Surf 02/09-32), 02/13-28 (Surf 02/09-32)	0.3											
00/05-33-010-29W1 Injector	00/03-33 00/05-33	Vertical Wells	WTR Injection	2	02/13-28 (Surf 02/09-32) 00/06-33 (Surf 00/02-33)	0.7 0.4	Aug 1994	Dec 2013	3.36	1.52	0.45	15.55	9.94	1.88	7.13	3.08	0.58
					00/06-33 (Surf 00/02-33) 02/05-34 (Surf 02/14-33)	0.6 1	Dec 1993	Dec 2013	2.94	5.14	1.75	13.52	41.75	11.07	7.23	1.64	0.13

APPENDIX B

Kola Unit No. 2 - Pressure Summary

Location	Test Date	Final Pressure (kPaa)	MPP (mTVD)	KB	Datum Depth	Gradient	Pressure @ -450 masl	Comments
102/13-28-010-29W1/0	Sep 25 - Oct 5, 2013	1893.74	863.03	537.00	-450	8.25	2916	

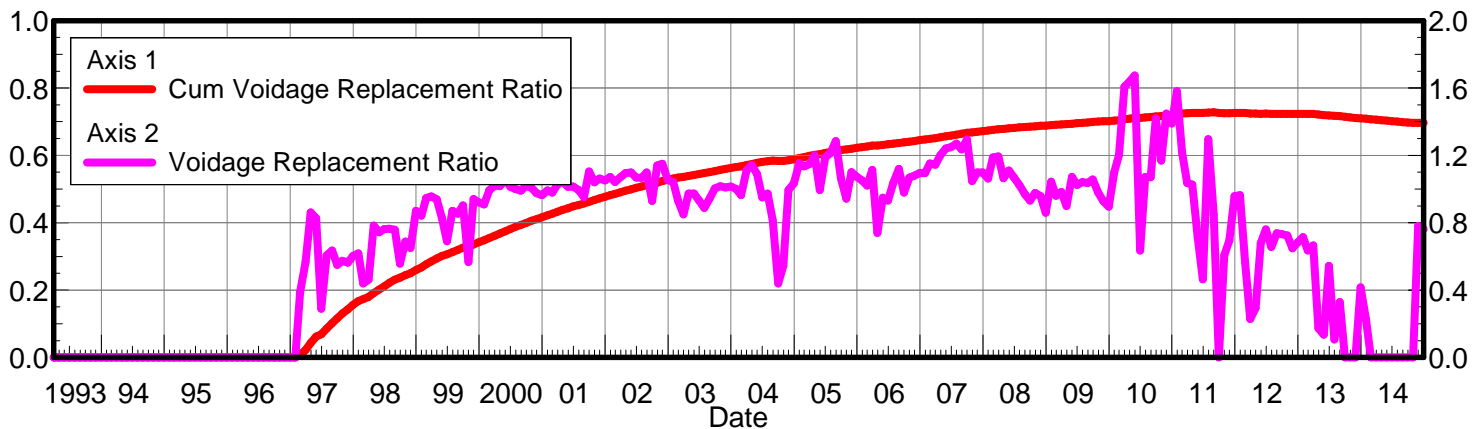
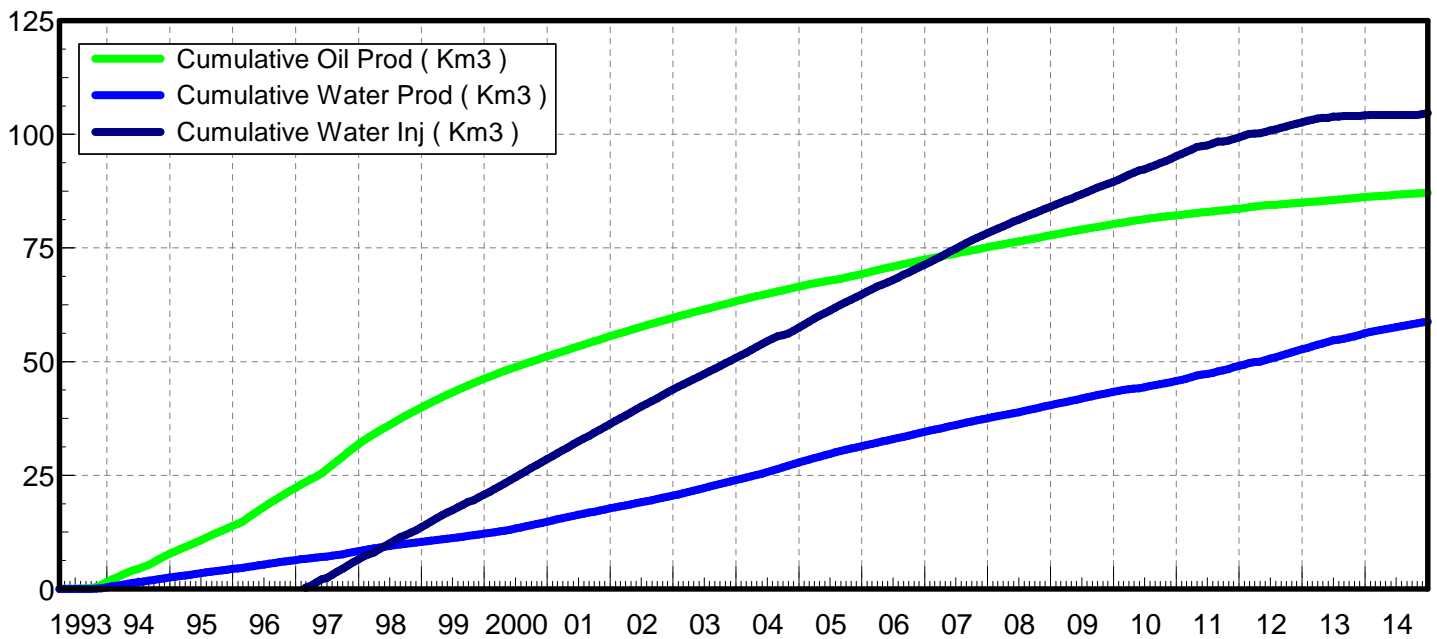
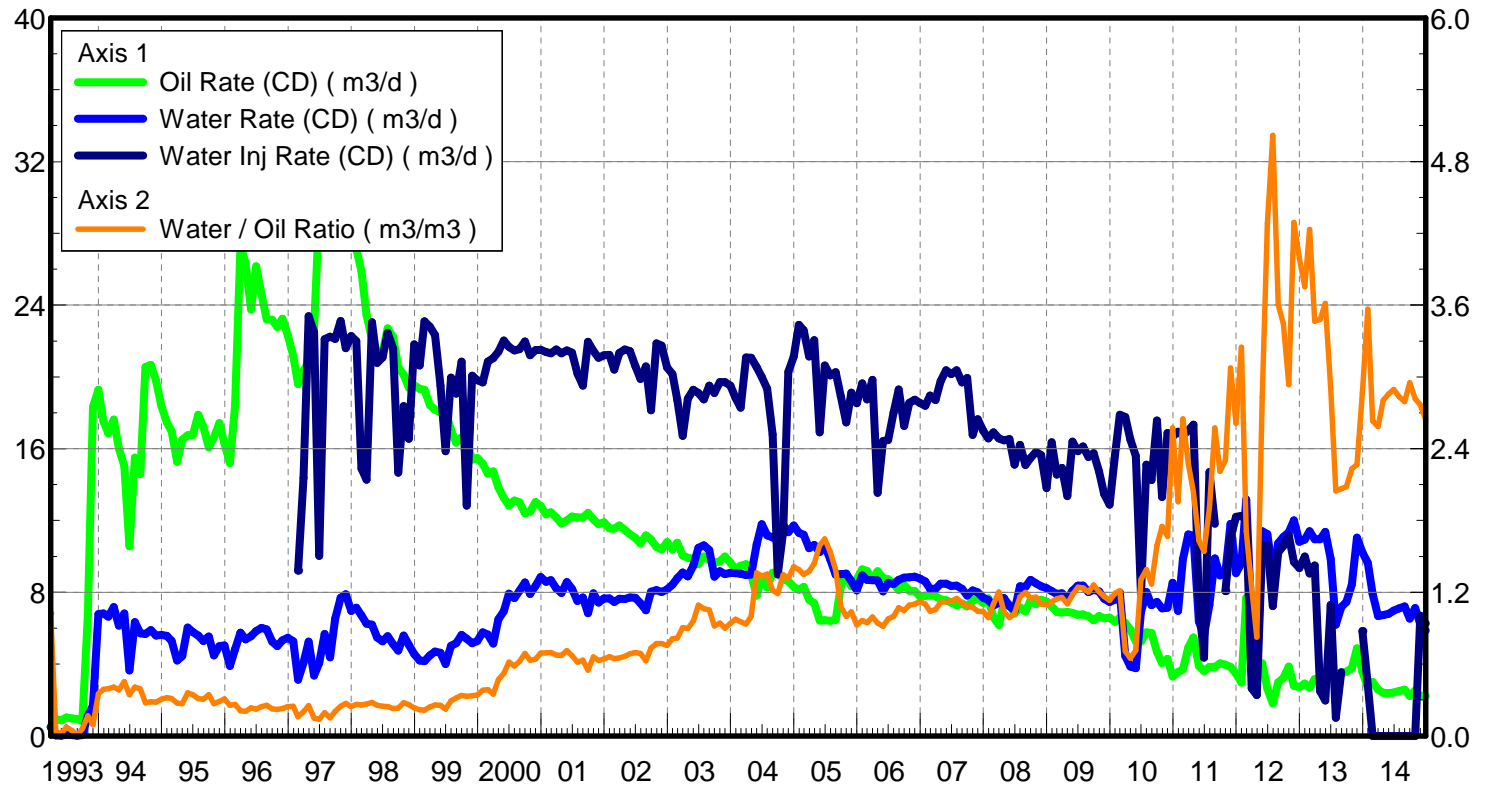
Appendix C

Average Monthly Injection Pressure (kPag)

Injection Pressure		Injection Pressure														
Month	100/01-32	Month	100/01-32	100/01-33	100/03-33	100/05-33	100/07-33	100/11-33	Month	100/01-32	100/01-33	100/03-33	100/05-33	100/07-33	100/11-33	
Jan-02	-	Jan-06	10419	-	11123	-	-	-	Jan-10	11123	6681	1217	-50	-62	-34	696
Feb-02	-	Feb-06	10377	-	10461	-	-	-	Feb-10	10461	6779	2914	-64	-67	341	2376
Mar-02	-	Mar-06	10549	-	10516	-	-	-	Mar-10	10516	6800	3861	138	-81	1600	3712
Apr-02	-	Apr-06	9327	-	10530	-	-	-	Apr-10	10530	6800	3998	1136	-83	2456	3938
May-02	-	May-06	9342	-	10477	-	-	-	May-10	10477	6800	3987	2539	-78	3244	3405
Jun-02	-	Jun-06	10483	-	5193	-	-	-	Jun-10	5193	6800	4001	3109	-54	3713	3972
Jul-02	-	Jul-06	10529	-	9852	-	-	-	Jul-10	9852	6800	4002	3721	-66	3986	3718
Aug-02	5529	Aug-06	10465	-	9461	-	-	-	Aug-10	9461	6800	4000	3426	-85	3956	3933
Sep-02	10082	Sep-06	10440	-	10357	-	-	-	Sep-10	10357	6800	4005	3998	-84	3999	3916
Oct-02	10082	Oct-06	10263	-	10187	-	-	-	Oct-10	10187	6800	3999	4001	-85	3996	4005
Nov-02	10082	Nov-06	10599	-	10654	-	-	-	Nov-10	10654	6760	3998	3999	-89	4002	3930
Dec-02	10082	Dec-06	10516	-	10723	-	-	-	Dec-10	10723	6710	3998	3737	-88	3965	3591
Jan-03	9998	Jan-07	10574	-	10152	-	-	-	Jan-11	10152	-	-	-	-	-	-
Feb-03	10097	Feb-07	10468	-	10108	-	-	-	Feb-11	10108	-	-	-	-	-	-
Mar-03	10144	Mar-07	10300	-	10216	-	-	-	Mar-11	10216	-	-	-	-	-	-
Apr-03	10061	Apr-07	10347	-	10100	-	-	-	Apr-11	10100	-	-	-	-	-	-
May-03	9940	May-07	10301	-	9526	-	-	-	May-11	9526	-	-	-	-	-	-
Jun-03	9940	Jun-07	10301	-	5603	-	-	-	Jun-11	5603	-	-	-	-	-	-
Jul-03	9940	Jul-07	10333	-	6871	-	-	-	Jul-11	6871	-	-	-	-	-	-
Aug-03	9940	Aug-07	10300	-	9632	-	-	-	Aug-11	9632	-	-	-	-	-	-
Sep-03	9913	Sep-07	10301	-	0	-	-	-	Sep-11	0	-	-	-	-	-	-
Oct-03	9825	Oct-07	10301	-	8397	-	-	-	Oct-11	8397	-	-	-	-	-	-
Nov-03	9825	Nov-07	10221	-	9000	-	-	-	Nov-11	9000	-	-	-	-	-	-
Dec-03	9825	Dec-07	10200	-	9000	-	-	-	Dec-11	9000	-	-	-	-	-	-
Jan-04	9825	Jan-08	10200	-	8935	-	-	-	Jan-12	8935	-	-	-	-	-	-
Feb-04	9825	Feb-08	10180	-	8900	-	-	-	Feb-12	8900	-	-	-	-	-	-
Mar-04	9825	Mar-08	10101	-	8900	-	-	-	Mar-12	8900	-	-	-	-	-	-
Apr-04	9825	Apr-08	10124	-	8900	-	-	-	Apr-12	8900	-	-	-	-	-	-
May-04	9825	May-08	10190	-	8900	-	-	-	May-12	8900	-	-	-	-	-	-
Jun-04	9825	Jun-08	10200	-	8900	-	-	-	Jun-12	8900	-	-	-	-	-	-
Jul-04	9825	Jul-08	10200	-	8900	-	-	-	Jul-12	8900	-	-	-	-	-	-
Aug-04	9825	Aug-08	10135	-	8661	-	-	-	Aug-12	8661	-	-	-	-	-	-
Sep-04	10182	Sep-08	9934	-	1500	-	-	-	Sep-12	1500	-	-	-	-	-	-
Oct-04	9927	Oct-08	10001	-	1500	-	-	-	Oct-12	1500	-	-	-	-	-	-
Nov-04	9190	Nov-08	10001	-	1500	-	-	-	Nov-12	1500	-	-	-	-	-	-
Dec-04	9190	Dec-08	10001	-	1500	-	-	-	Dec-12	1500	-	-	-	-	-	-
Jan-05	9190	Jan-09	10001	-	1500	-	-	-	Jan-13	1500	-	-	-	-	-	-
Feb-05	9659	Feb-09	10001	-	1500	-	-	-	Feb-13	1500	-	-	-	-	-	-
Mar-05	10200	Mar-09	10001	-	1500	-	-	-	Mar-13	1500	-	-	-	-	-	-
Apr-05	10200	Apr-09	10001	-	1500	-	-	-	Apr-13	1500	-	-	-	-	-	-
May-05	10200	May-09	10001	-	1500	-	-	-	May-13	1500	-	-	-	-	-	-
Jun-05	10173	Jun-09	10007	-	6458	-	-	-	Jun-13	6458	-	-	-	-	-	-
Jul-05	10369	Jul-09	10201	-	10250	-	-	-	Jul-13	10250	-	-	-	-	-	-
Aug-05	10526	Aug-09	10200	-	10250	-	-	-	Aug-13	10250	-	-	-	-	-	-
Sep-05	10727	Sep-09	10200	-	10250	-	-	-	Sep-13	10250	-	-	-	-	-	-
Oct-05	10800	Oct-09	10284	-	10250	-	-	-	Oct-13	10250	-	-	-	-	-	-
Nov-05	10760	Nov-09	10487	-	10250	-	-	-	Nov-13	10250	-	-	-	-	-	-
Dec-05	10400	Dec-09	11032	-	8431	-17	-39	-45	Dec-13	8431	-	-	-	-23	-	20

Appendix D
Rates and VRR
Plots and Tables

Pattern: 00/01-32-010-29Inj Set: KolaUnit#2
 Oil Formation Vol Factor : 1.05000 m3/m3
 Water Formation Vol Factor : 1.00000 m3/m3
 Water / Oil Ratio : 2.64 m3/m3
 May 06, 2015
 Operator: Tundra_O&G_Prtshp
 Oil Rate (CD) : 2.23 m3/d
 Water Rate (CD) : 5.88 m3/d
 Water Inj Rate (CD) : 6.27 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
3/31/1993	0.96	0.98	1.02		0.03	0.03	0.00	0.000	0.000
4/30/1993	1.89	0.07	0.04		0.09	0.03	0.00	0.000	0.000
5/31/1993	1.74	0.03	0.02		0.14	0.03	0.00	0.000	0.000
6/30/1993	2.06	0.15	0.07		0.20	0.04	0.00	0.000	0.000
7/31/1993	1.94	0.08	0.04		0.26	0.04	0.00	0.000	0.000
8/31/1993	1.87	0.01	0.01		0.32	0.04	0.00	0.000	0.000
9/30/1993	1.67	0.10	0.06		0.37	0.04	0.00	0.000	0.000
10/31/1993	7.61	1.15	0.15		0.61	0.08	0.00	0.000	0.000
11/30/1993	21.12	1.75	0.08		1.24	0.13	0.00	0.000	0.000
12/31/1993	22.04	6.80	0.31		1.92	0.34	0.00	0.000	0.000
1/31/1994	19.88	6.85	0.34		2.54	0.56	0.00	0.000	0.000
2/28/1994	18.95	6.66	0.35		3.07	0.74	0.00	0.000	0.000
3/31/1994	19.82	7.26	0.37		3.68	0.97	0.00	0.000	0.000
4/30/1994	18.08	6.18	0.34		4.23	1.15	0.00	0.000	0.000
5/31/1994	16.86	6.86	0.41		4.75	1.36	0.00	0.000	0.000
6/30/1994	12.10	3.66	0.30		5.11	1.47	0.00	0.000	0.000
7/31/1994	17.17	6.39	0.37		5.65	1.67	0.00	0.000	0.000
8/31/1994	16.37	5.76	0.35		6.15	1.85	0.00	0.000	0.000
9/30/1994	22.67	5.74	0.25		6.83	2.02	0.00	0.000	0.000
10/31/1994	22.71	5.94	0.26		7.54	2.21	0.00	0.000	0.000
11/30/1994	21.67	5.62	0.26		8.19	2.38	0.00	0.000	0.000
12/31/1994	20.10	5.65	0.28		8.81	2.55	0.00	0.000	0.000
1/31/1995	19.00	5.59	0.29		9.40	2.73	0.00	0.000	0.000
2/28/1995	18.66	5.34	0.29		9.92	2.87	0.00	0.000	0.000
3/31/1995	16.88	4.25	0.25		10.44	3.01	0.00	0.000	0.000
4/30/1995	18.09	4.48	0.25		10.99	3.14	0.00	0.000	0.000
5/31/1995	18.16	6.10	0.34		11.55	3.33	0.00	0.000	0.000
6/30/1995	18.22	5.82	0.32		12.10	3.50	0.00	0.000	0.000
7/31/1995	19.25	5.69	0.30		12.69	3.68	0.00	0.000	0.000
8/31/1995	18.63	5.32	0.29		13.27	3.85	0.00	0.000	0.000
9/30/1995	17.32	5.65	0.33		13.79	4.02	0.00	0.000	0.000
10/31/1995	17.93	4.53	0.25		14.35	4.16	0.00	0.000	0.000
11/30/1995	18.80	5.07	0.27		14.91	4.31	0.00	0.000	0.000
12/31/1995	17.58	5.13	0.29		15.46	4.47	0.00	0.000	0.000
1/31/1996	16.39	3.99	0.24		15.96	4.59	0.00	0.000	0.000
2/29/1996	19.59	4.88	0.25		16.53	4.73	0.00	0.000	0.000
3/31/1996	28.51	5.84	0.20		17.42	4.91	0.00	0.000	0.000
4/30/1996	27.64	5.40	0.20		18.24	5.07	0.00	0.000	0.000
5/31/1996	25.07	5.60	0.22		19.02	5.25	0.00	0.000	0.000
6/30/1996	27.24	5.85	0.21		19.84	5.42	0.00	0.000	0.000
7/31/1996	25.56	6.09	0.24		20.63	5.61	0.00	0.000	0.000
8/31/1996	24.18	5.97	0.25		21.38	5.80	0.00	0.000	0.000
9/30/1996	24.19	5.30	0.22		22.11	5.96	0.00	0.000	0.000
10/31/1996	23.75	5.05	0.21		22.84	6.11	0.00	0.000	0.000
11/30/1996	24.41	5.37	0.22		23.58	6.27	0.00	0.000	0.000
12/31/1996	23.36	5.53	0.24		24.30	6.45	0.00	0.000	0.000
1/31/1997	21.94	5.35	0.24		24.98	6.61	0.00	0.000	0.000
2/28/1997	20.30	3.19	0.16	9.21	25.55	6.70	0.26	0.376	0.008

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
3/31/1997	21.01	4.14	0.20	14.39	26.20	6.83	0.70	0.549	0.020
4/30/1997	21.59	5.27	0.24	23.38	26.85	6.99	1.41	0.837	0.040
5/31/1997	23.41	3.39	0.14	22.50	27.57	7.09	2.10	0.804	0.058
6/30/1997	29.93	4.11	0.14	10.03	28.47	7.22	2.40	0.282	0.065
7/31/1997	30.16	5.73	0.19	22.09	29.41	7.39	3.09	0.591	0.081
8/31/1997	30.12	4.44	0.15	22.24	30.34	7.53	3.78	0.617	0.096
9/30/1997	34.80	7.88	0.23	22.12	31.38	7.77	4.44	0.498	0.109
10/31/1997	35.40	9.40	0.27	23.12	32.48	8.06	5.16	0.497	0.122
11/30/1997	32.94	8.69	0.26	21.60	33.47	8.32	5.81	0.499	0.134
12/31/1997	32.24	7.64	0.24	22.27	34.47	8.56	6.50	0.537	0.145
1/31/1998	30.83	7.85	0.25	22.00	35.42	8.80	7.18	0.547	0.156
2/28/1998	29.44	7.37	0.25	14.90	36.25	9.01	7.60	0.389	0.161
3/31/1998	26.53	6.78	0.26	14.27	37.07	9.22	8.04	0.412	0.167
4/30/1998	25.12	6.77	0.27	23.04	37.82	9.42	8.73	0.695	0.178
5/31/1998	24.25	6.10	0.25	20.79	38.58	9.61	9.37	0.659	0.187
6/30/1998	24.07	5.85	0.24	21.09	39.30	9.78	10.01	0.678	0.196
7/31/1998	25.70	5.87	0.23	22.45	40.09	9.96	10.70	0.683	0.206
8/31/1998	25.19	5.41	0.21	21.58	40.88	10.13	11.37	0.677	0.214
9/30/1998	23.40	5.02	0.21	14.67	41.58	10.28	11.81	0.496	0.219
10/31/1998	22.72	5.77	0.25	18.38	42.28	10.46	12.38	0.620	0.226
11/30/1998	22.05	5.44	0.25	16.55	42.94	10.63	12.88	0.579	0.231
12/31/1998	22.26	4.75	0.21	21.81	43.63	10.77	13.55	0.776	0.240
1/31/1999	21.93	4.54	0.21	20.64	44.31	10.91	14.19	0.749	0.247
2/28/1999	21.86	4.54	0.21	23.10	44.93	11.04	14.84	0.840	0.255
3/31/1999	21.00	4.77	0.23	22.79	45.58	11.19	15.55	0.850	0.263
4/30/1999	20.83	4.86	0.23	22.33	46.20	11.33	16.22	0.835	0.271
5/31/1999	20.49	5.01	0.24	19.52	46.84	11.49	16.82	0.736	0.277
6/30/1999	20.35	4.85	0.24	15.85	47.45	11.64	17.30	0.605	0.281
7/31/1999	19.55	5.39	0.28	19.95	48.05	11.80	17.92	0.770	0.288
8/31/1999	18.86	5.50	0.29	19.07	48.64	11.97	18.51	0.754	0.294
9/30/1999	19.10	5.98	0.31	20.85	49.21	12.15	19.13	0.801	0.300
10/31/1999	18.82	5.75	0.31	12.83	49.79	12.33	19.53	0.503	0.302
11/30/1999	17.75	5.65	0.32	20.06	50.33	12.50	20.13	0.826	0.308
12/31/1999	17.67	5.90	0.33	19.81	50.87	12.68	20.75	0.810	0.314
1/31/2000	17.19	6.62	0.39	19.69	51.41	12.89	21.36	0.798	0.319
2/29/2000	16.70	6.39	0.38	20.84	51.89	13.07	21.96	0.871	0.325
3/31/2000	16.92	5.79	0.34	21.05	52.42	13.25	22.61	0.894	0.331
4/30/2000	16.02	7.12	0.44	21.41	52.90	13.47	23.26	0.894	0.337
5/31/2000	15.61	7.31	0.47	22.02	53.38	13.69	23.94	0.929	0.343
6/30/2000	15.16	8.31	0.55	21.68	53.84	13.94	24.59	0.895	0.349
7/31/2000	15.44	8.12	0.53	21.47	54.31	14.19	25.26	0.882	0.355
8/31/2000	15.31	8.53	0.56	21.55	54.79	14.46	25.92	0.876	0.360
9/30/2000	14.64	8.99	0.61	21.98	55.23	14.73	26.58	0.902	0.366
10/31/2000	14.67	8.43	0.57	21.20	55.68	14.99	27.24	0.890	0.371
11/30/2000	15.34	8.77	0.57	21.49	56.14	15.25	27.89	0.864	0.376
12/31/2000	15.04	9.26	0.62	21.50	56.61	15.54	28.55	0.858	0.381
1/31/2001	14.54	9.06	0.62	21.38	57.06	15.82	29.22	0.879	0.386
2/28/2001	14.66	9.13	0.62	21.32	57.47	16.08	29.81	0.870	0.390

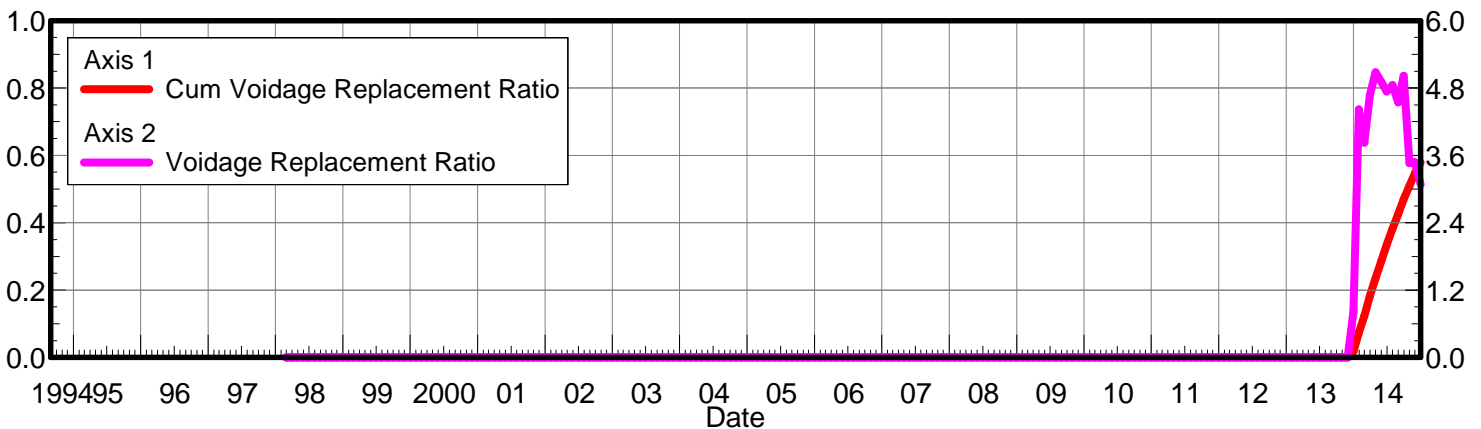
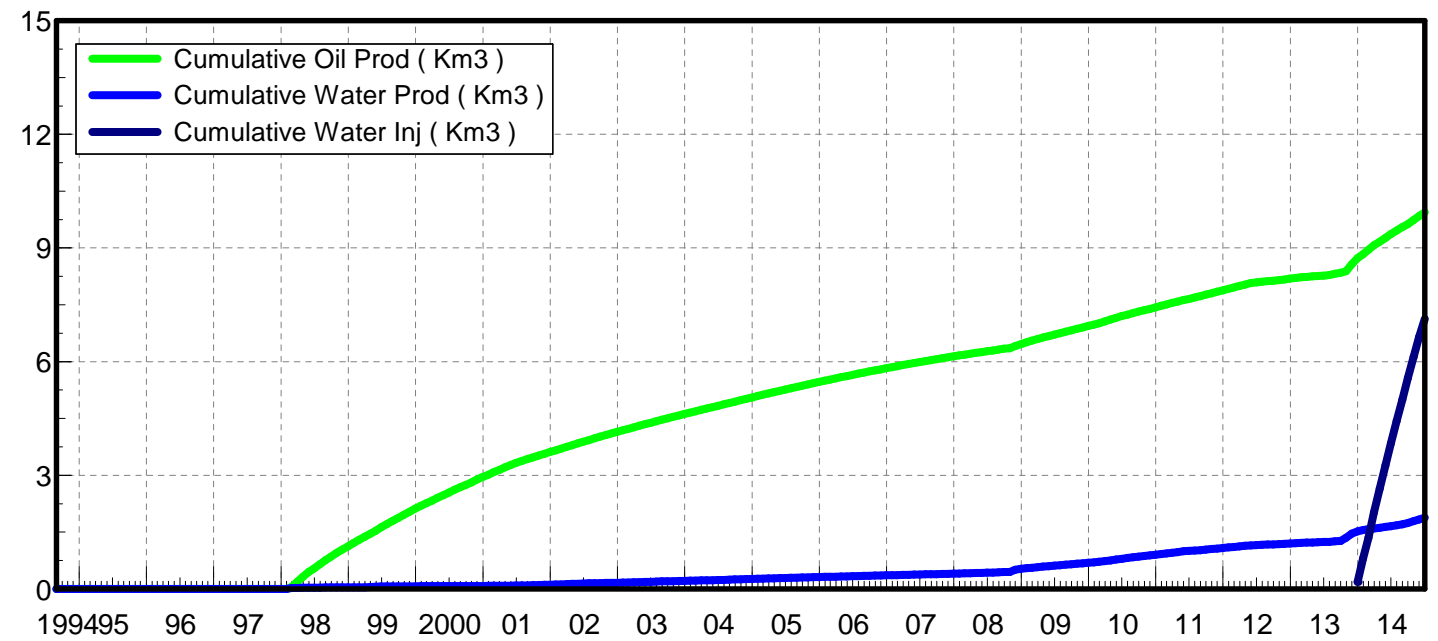
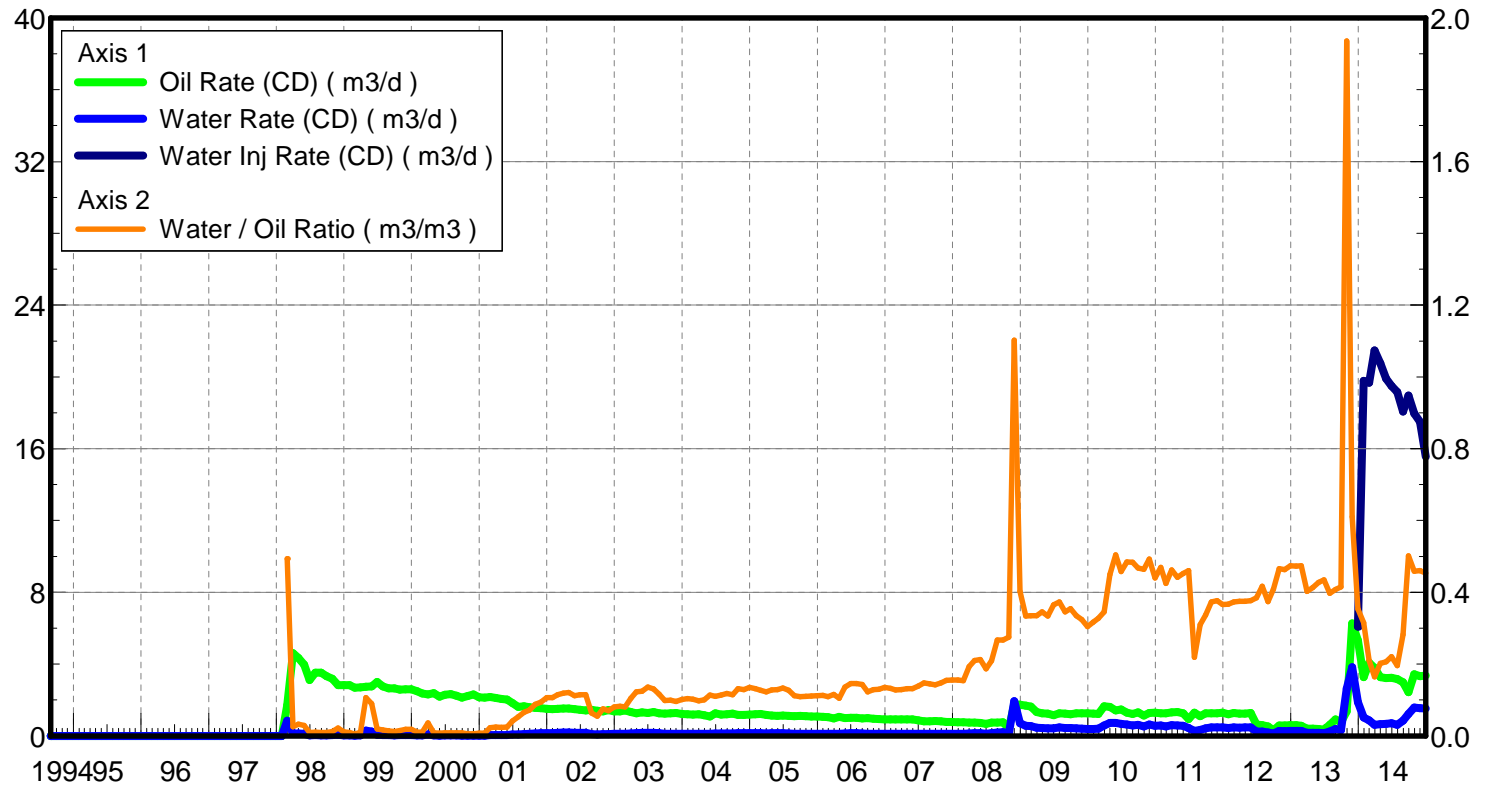
Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
3/31/2001	14.21	8.73	0.61	21.53	57.91	16.35	30.48	0.910	0.395
4/30/2001	13.86	8.43	0.61	21.31	58.33	16.60	31.12	0.927	0.400
5/31/2001	14.11	9.04	0.64	21.47	58.76	16.88	31.78	0.900	0.404
6/30/2001	14.37	8.65	0.60	21.36	59.19	17.14	32.42	0.900	0.409
7/31/2001	13.97	8.12	0.58	20.19	59.63	17.39	33.05	0.886	0.413
8/31/2001	14.07	8.34	0.59	19.52	60.06	17.65	33.66	0.844	0.417
9/30/2001	14.27	7.47	0.52	21.95	60.49	17.87	34.31	0.978	0.422
10/31/2001	13.85	8.64	0.62	21.44	60.92	18.14	34.98	0.925	0.426
11/30/2001	13.59	8.07	0.59	21.07	61.33	18.38	35.61	0.943	0.430
12/31/2001	13.69	8.31	0.61	21.21	61.75	18.64	36.27	0.935	0.434
1/31/2002	13.19	8.41	0.64	21.22	62.16	18.90	36.93	0.954	0.439
2/28/2002	13.25	8.15	0.62	20.41	62.53	19.13	37.50	0.925	0.442
3/31/2002	13.42	8.35	0.62	21.33	62.95	19.39	38.16	0.950	0.446
4/30/2002	13.15	8.31	0.63	21.53	63.34	19.64	38.80	0.974	0.450
5/31/2002	12.89	8.41	0.65	21.45	63.74	19.90	39.47	0.977	0.455
6/30/2002	12.71	8.40	0.66	20.60	64.13	20.15	40.09	0.947	0.458
7/31/2002	12.34	8.07	0.65	19.88	64.51	20.40	40.70	0.946	0.462
8/31/2002	12.85	7.65	0.60	20.58	64.91	20.64	41.34	0.973	0.466
9/30/2002	12.48	8.74	0.70	18.14	65.28	20.90	41.89	0.830	0.468
10/31/2002	12.12	8.79	0.73	21.87	65.66	21.17	42.56	1.017	0.472
11/30/2002	11.99	8.71	0.73	21.74	66.02	21.43	43.22	1.021	0.476
12/31/2002	12.41	8.86	0.71	20.54	66.40	21.71	43.85	0.938	0.480
1/31/2003	11.84	9.13	0.77	20.16	66.77	21.99	44.48	0.935	0.483
2/28/2003	12.50	9.50	0.76	18.73	67.12	22.26	45.00	0.828	0.485
3/31/2003	11.65	9.78	0.84	16.71	67.48	22.56	45.52	0.759	0.487
4/30/2003	11.53	9.55	0.83	18.79	67.82	22.85	46.08	0.867	0.490
5/31/2003	11.48	10.15	0.88	19.29	68.18	23.16	46.68	0.869	0.493
6/30/2003	11.17	11.19	1.00	19.10	68.52	23.50	47.25	0.834	0.495
7/31/2003	11.59	11.39	0.98	18.75	68.87	23.85	47.84	0.796	0.497
8/31/2003	11.39	11.09	0.97	19.51	69.23	24.19	48.44	0.846	0.500
9/30/2003	11.24	9.46	0.84	19.10	69.57	24.48	49.01	0.898	0.503
10/31/2003	11.32	9.77	0.86	19.70	69.92	24.78	49.62	0.910	0.505
11/30/2003	11.64	9.60	0.82	19.71	70.27	25.07	50.22	0.903	0.508
12/31/2003	11.25	9.67	0.86	19.51	70.61	25.37	50.82	0.908	0.511
1/31/2004	10.68	9.55	0.89	18.85	70.95	25.66	51.40	0.908	0.513
2/29/2004	11.06	9.62	0.87	18.28	71.27	25.94	51.93	0.861	0.515
3/31/2004	11.17	9.54	0.85	21.08	71.61	26.24	52.59	0.991	0.518
4/30/2004	10.55	9.57	0.91	21.06	71.93	26.53	53.22	1.020	0.522
5/31/2004	9.33	11.27	1.21	20.55	72.22	26.88	53.86	0.975	0.524
6/30/2004	10.45	12.46	1.19	20.00	72.53	27.25	54.46	0.854	0.527
7/31/2004	9.82	11.82	1.20	19.33	72.84	27.62	55.06	0.874	0.529
8/31/2004	10.65	11.74	1.10	16.79	73.17	27.98	55.58	0.732	0.530
9/30/2004	10.62	11.22	1.06	9.00	73.48	28.32	55.85	0.402	0.529
10/31/2004	10.19	12.11	1.19	11.38	73.80	28.69	56.20	0.499	0.529
11/30/2004	10.09	11.69	1.16	20.29	74.10	29.04	56.81	0.910	0.532
12/31/2004	9.79	12.07	1.23	21.13	74.41	29.42	57.46	0.945	0.534
1/31/2005	9.55	11.63	1.22	22.91	74.70	29.78	58.17	1.058	0.538
2/28/2005	9.69	11.51	1.19	22.59	74.97	30.10	58.81	1.042	0.540

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
3/31/2005	8.92	10.74	1.20	21.14	75.25	30.43	59.46	1.051	0.543
4/30/2005	8.72	10.93	1.25	22.05	75.51	30.76	60.12	1.098	0.546
5/31/2005	7.73	10.57	1.37	16.92	75.75	31.09	60.65	0.905	0.548
6/30/2005	7.75	10.95	1.41	20.64	75.98	31.42	61.27	1.081	0.551
7/31/2005	7.73	10.18	1.32	20.08	76.22	31.73	61.89	1.098	0.554
8/31/2005	7.77	9.28	1.19	20.26	76.46	32.02	62.52	1.162	0.557
9/30/2005	9.64	9.32	0.97	18.92	76.75	32.30	63.09	0.973	0.559
10/31/2005	10.36	9.35	0.90	17.46	77.08	32.59	63.63	0.863	0.560
11/30/2005	9.61	8.93	0.93	19.12	77.36	32.86	64.20	1.005	0.563
12/31/2005	10.02	8.41	0.84	18.53	77.67	33.12	64.77	0.979	0.565
1/31/2006	10.56	9.25	0.88	19.65	78.00	33.41	65.38	0.966	0.567
2/28/2006	10.45	8.98	0.86	18.74	78.29	33.66	65.91	0.939	0.569
3/31/2006	9.96	8.89	0.89	19.84	78.60	33.93	66.52	1.026	0.571
4/30/2006	10.36	9.02	0.87	13.54	78.91	34.20	66.93	0.680	0.572
5/31/2006	9.93	8.43	0.85	16.42	79.22	34.46	67.44	0.871	0.573
6/30/2006	9.90	8.92	0.90	16.48	79.52	34.73	67.93	0.854	0.575
7/31/2006	9.58	8.84	0.92	18.02	79.82	35.01	68.49	0.954	0.576
8/31/2006	9.23	9.08	0.98	19.30	80.10	35.29	69.09	1.028	0.579
9/30/2006	9.53	9.19	0.96	17.26	80.39	35.56	69.61	0.899	0.580
10/31/2006	9.20	9.23	1.00	18.55	80.67	35.85	70.18	0.982	0.582
11/30/2006	9.15	9.26	1.01	18.74	80.95	36.13	70.74	0.993	0.584
12/31/2006	8.85	9.14	1.03	18.55	81.22	36.41	71.32	1.007	0.586
1/31/2007	8.85	8.97	1.01	18.39	81.50	36.69	71.89	1.006	0.588
2/28/2007	8.93	8.57	0.96	18.97	81.75	36.93	72.42	1.057	0.590
3/31/2007	8.84	8.59	0.97	18.71	82.02	37.19	73.00	1.047	0.592
4/30/2007	8.62	8.90	1.03	19.77	82.28	37.46	73.59	1.101	0.594
5/31/2007	8.56	8.90	1.04	20.37	82.54	37.74	74.23	1.139	0.597
6/30/2007	8.38	8.76	1.05	20.16	82.79	38.00	74.83	1.148	0.599
7/31/2007	8.25	8.76	1.06	20.36	83.05	38.27	75.46	1.168	0.601
8/31/2007	8.35	8.55	1.02	19.70	83.31	38.54	76.07	1.137	0.604
9/30/2007	8.18	8.19	1.00	19.94	83.56	38.78	76.67	1.189	0.606
10/31/2007	8.55	8.49	0.99	16.77	83.82	39.05	77.19	0.960	0.608
11/30/2007	8.69	8.35	0.96	17.64	84.08	39.30	77.72	1.009	0.609
12/31/2007	8.44	8.05	0.95	17.00	84.34	39.55	78.25	1.005	0.611
1/31/2008	8.69	7.89	0.91	16.58	84.61	39.79	78.76	0.975	0.612
2/29/2008	7.61	7.59	1.00	16.90	84.83	40.01	79.25	1.085	0.614
3/31/2008	7.17	7.73	1.08	16.58	85.05	40.25	79.76	1.086	0.616
4/30/2008	8.35	7.99	0.96	16.46	85.31	40.49	80.26	0.982	0.617
5/31/2008	8.25	7.53	0.91	16.54	85.56	40.72	80.77	1.021	0.619
6/30/2008	7.76	7.29	0.94	15.11	85.79	40.94	81.22	0.978	0.620
7/31/2008	8.07	8.68	1.08	16.22	86.04	41.21	81.73	0.945	0.621
8/31/2008	7.85	8.66	1.10	15.09	86.29	41.48	82.20	0.893	0.622
9/30/2008	8.43	9.08	1.08	15.49	86.54	41.75	82.66	0.864	0.623
10/31/2008	8.20	8.91	1.09	15.83	86.79	42.03	83.15	0.904	0.624
11/30/2008	8.46	8.76	1.04	15.64	87.05	42.29	83.62	0.886	0.625
12/31/2008	8.38	8.65	1.03	13.82	87.31	42.56	84.05	0.792	0.626
1/31/2009	8.12	8.45	1.04	16.35	87.56	42.82	84.55	0.963	0.627
2/28/2009	7.80	8.24	1.06	14.55	87.78	43.05	84.96	0.886	0.628

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
3/31/2009	7.78	8.25	1.06	14.93	88.02	43.31	85.42	0.909	0.629
4/30/2009	7.82	7.90	1.01	13.36	88.25	43.55	85.83	0.829	0.630
5/31/2009	7.78	8.41	1.08	16.39	88.49	43.81	86.33	0.989	0.631
6/30/2009	7.62	8.74	1.15	15.85	88.72	44.07	86.81	0.947	0.633
7/31/2009	7.62	8.73	1.15	16.14	88.96	44.34	87.31	0.964	0.634
8/31/2009	7.49	8.34	1.11	15.55	89.19	44.60	87.79	0.960	0.635
9/30/2009	7.24	8.46	1.17	15.75	89.41	44.85	88.26	0.981	0.636
10/31/2009	7.48	8.42	1.13	14.74	89.64	45.11	88.72	0.905	0.637
11/30/2009	7.29	8.01	1.10	13.46	89.86	45.35	89.12	0.859	0.638
12/31/2009	7.37	7.82	1.06	12.88	90.09	45.59	89.52	0.828	0.639
1/31/2010	7.13	7.94	1.11	15.67	90.31	45.84	90.01	1.016	0.640
2/28/2010	7.32	8.30	1.13	17.90	90.51	46.07	90.51	1.120	0.641
3/31/2010	7.06	4.76	0.67	17.76	90.73	46.22	91.06	1.459	0.644
4/30/2010	6.67	4.15	0.62	16.50	90.93	46.34	91.56	1.479	0.646
5/31/2010	5.97	4.11	0.69	15.59	91.12	46.47	92.04	1.502	0.648
6/30/2010	6.06	7.16	1.18	7.88	91.30	46.69	92.28	0.583	0.647
7/31/2010	6.55	8.41	1.28	15.11	91.50	46.95	92.74	0.988	0.648
8/31/2010	6.46	7.66	1.19	14.25	91.70	47.18	93.19	0.987	0.650
9/30/2010	5.43	7.89	1.45	17.58	91.87	47.42	93.71	1.293	0.651
10/31/2010	4.73	7.45	1.58	13.31	92.01	47.65	94.13	1.072	0.652
11/30/2010	5.00	7.52	1.50	16.88	92.16	47.88	94.63	1.321	0.654
12/31/2010	4.04	8.88	2.20	16.67	92.29	48.15	95.15	1.271	0.656
1/31/2011	4.24	7.31	1.73	16.94	92.42	48.38	95.67	1.440	0.658
2/28/2011	4.42	10.16	2.30	16.73	92.54	48.66	96.14	1.130	0.659
3/31/2011	5.64	11.58	2.05	17.01	92.72	49.02	96.67	0.972	0.660
4/30/2011	6.19	11.50	1.86	17.35	92.90	49.37	97.19	0.964	0.662
5/31/2011	4.61	6.72	1.46	7.47	93.05	49.58	97.42	0.646	0.661
6/30/2011	4.32	5.93	1.37	4.36	93.18	49.76	97.55	0.416	0.661
7/31/2011	4.55	7.68	1.69	14.70	93.32	49.99	98.01	1.181	0.662
8/31/2011	4.56	10.24	2.25	11.81	93.46	50.31	98.37	0.786	0.663
9/30/2011	4.75	9.27	1.95		93.60	50.59	98.37	0.000	0.661
10/31/2011	4.70	9.49	2.02	8.07	93.75	50.88	98.62	0.559	0.661
11/30/2011	4.57	12.16	2.66	11.04	93.88	51.25	98.96	0.651	0.660
12/31/2011	4.05	9.31	2.30	12.20	94.01	51.54	99.33	0.899	0.661
1/31/2012	3.62	9.91	2.74	12.26	94.12	51.84	99.71	0.895	0.662
2/29/2012	8.41	13.50	1.60	12.03	94.37	52.24	100.06	0.539	0.661
3/31/2012	5.75	6.58	1.15	2.65	94.54	52.44	100.15	0.210	0.660
4/30/2012	4.80	3.70	0.77	2.27	94.69	52.55	100.21	0.260	0.659
5/31/2012	4.71	11.70	2.48	10.60	94.83	52.91	100.54	0.637	0.659
6/30/2012	3.31	11.55	3.49	10.65	94.93	53.26	100.86	0.709	0.659
7/31/2012	2.32	9.40	4.05	7.22	95.00	53.55	101.09	0.610	0.659
8/31/2012	3.22	10.90	3.39	10.23	95.10	53.89	101.40	0.716	0.660
9/30/2012	3.41	11.22	3.29	10.59	95.21	54.23	101.72	0.716	0.660
10/31/2012	4.64	11.92	2.57	11.16	95.35	54.60	102.07	0.665	0.660
11/30/2012	3.50	12.61	3.60	9.69	95.46	54.97	102.36	0.595	0.660
12/31/2012	3.34	11.38	3.40	9.35	95.56	55.33	102.65	0.628	0.659
1/31/2013	3.57	11.47	3.21	10.00	95.67	55.68	102.96	0.657	0.659
2/28/2013	3.32	11.90	3.59	9.04	95.76	56.02	103.21	0.588	0.659

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
3/31/2013	3.80	11.43	3.01	9.50	95.88	56.37	103.50	0.616	0.659
4/30/2013	3.77	11.42	3.03	2.48	95.99	56.71	103.58	0.161	0.658
5/31/2013	3.76	11.77	3.13	1.97	96.11	57.08	103.64	0.126	0.656
6/30/2013	4.00	10.26	2.57	7.30	96.23	57.38	103.86	0.504	0.656
7/31/2013	3.54	6.65	1.88	1.01	96.34	57.59	103.89	0.097	0.654
8/31/2013	3.97	7.63	1.92	3.56	96.46	57.83	104.00	0.302	0.654
9/30/2013	4.15	7.93	1.91		96.59	58.07	104.00	0.000	0.652
10/31/2013	4.36	8.89	2.04		96.72	58.34	104.00	0.000	0.650
11/30/2013	5.43	11.49	2.11		96.89	58.69	104.00	0.000	0.648
12/31/2013	4.12	10.68	2.59	5.84	97.01	59.02	104.18	0.389	0.648
1/31/2014	3.25	10.08	3.10	2.81	97.11	59.33	104.27	0.208	0.646
2/28/2014	3.56	8.34	2.34	0.00	97.21	59.56	104.27	0.000	0.645
3/31/2014	3.10	7.10	2.29	0.00	97.31	59.78	104.27	0.000	0.644
4/30/2014	2.92	7.15	2.45	0.00	97.40	60.00	104.27	0.000	0.643
5/31/2014	2.88	7.21	2.51	0.00	97.49	60.22	104.27	0.000	0.641
6/30/2014	2.92	7.41	2.54	0.00	97.57	60.44	104.27	0.000	0.640
7/31/2014	2.85	7.36	2.58	0.00	97.66	60.67	104.27	0.000	0.639
8/31/2014	3.10	7.70	2.48	0.00	97.76	60.91	104.27	0.000	0.638
9/30/2014	2.73	6.89	2.52	0.00	97.84	61.12	104.27	0.000	0.636
10/31/2014	3.07	7.49	2.44	0.00	97.94	61.35	104.27	0.000	0.635
11/30/2014	2.74	6.60	2.41	6.69	98.02	61.55	104.47	0.707	0.635
12/31/2014	2.74	6.27	2.29	6.27	98.10	61.74	104.66	0.685	0.635

Pattern: 00/05-33-010-29 Inj Set: Kola Unit#2
 Oil Formation Vol Factor : 1.05000 m3/m3
 Water Formation Vol Factor : 1.00000 m3/m3
 Water / Oil Ratio : 0.45 m3/m3
 May 06, 2015
 Operator: Tundra_O&G_Prtshp
 Oil Rate (CD) : 3.36 m3/d
 Water Rate (CD) : 1.52 m3/d
 Water Inj Rate (CD) : 15.55 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
8/31/1994	0.00	0.00			0.00	0.00	0.00		
9/30/1994	0.00	0.00			0.00	0.00	0.00		
10/31/1994	0.00	0.00			0.00	0.00	0.00		
11/30/1994	0.00	0.00			0.00	0.00	0.00		
12/31/1994	0.00	0.00			0.00	0.00	0.00		
1/31/1995	0.00	0.00			0.00	0.00	0.00		
2/28/1995	0.00	0.00			0.00	0.00	0.00		
3/31/1995	0.00	0.00			0.00	0.00	0.00		
4/30/1995	0.00	0.00			0.00	0.00	0.00		
5/31/1995	0.00	0.00			0.00	0.00	0.00		
6/30/1995	0.00	0.00			0.00	0.00	0.00		
7/31/1995	0.00	0.00			0.00	0.00	0.00		
8/31/1995	0.00	0.00			0.00	0.00	0.00		
9/30/1995	0.00	0.00			0.00	0.00	0.00		
10/31/1995	0.00	0.00			0.00	0.00	0.00		
11/30/1995	0.00	0.00			0.00	0.00	0.00		
12/31/1995	0.00	0.00			0.00	0.00	0.00		
1/31/1996	0.00	0.00			0.00	0.00	0.00		
2/29/1996	0.00	0.00			0.00	0.00	0.00		
3/31/1996	0.00	0.00			0.00	0.00	0.00		
4/30/1996	0.00	0.00			0.00	0.00	0.00		
5/31/1996	0.00	0.00			0.00	0.00	0.00		
6/30/1996	0.00	0.00			0.00	0.00	0.00		
7/31/1996	0.00	0.00			0.00	0.00	0.00		
8/31/1996	0.00	0.00			0.00	0.00	0.00		
9/30/1996	0.00	0.00			0.00	0.00	0.00		
10/31/1996	0.00	0.00			0.00	0.00	0.00		
11/30/1996	0.00	0.00			0.00	0.00	0.00		
12/31/1996	0.00	0.00			0.00	0.00	0.00		
1/31/1997	0.00	0.00			0.00	0.00	0.00		
2/28/1997	0.00	0.00			0.00	0.00	0.00		
3/31/1997	0.00	0.00			0.00	0.00	0.00		
4/30/1997	0.00	0.00			0.00	0.00	0.00		
5/31/1997	0.00	0.00			0.00	0.00	0.00		
6/30/1997	0.00	0.00			0.00	0.00	0.00		
7/31/1997	0.00	0.00			0.00	0.00	0.00		
8/31/1997	0.00	0.00			0.00	0.00	0.00		
9/30/1997	0.00	0.00			0.00	0.00	0.00		
10/31/1997	0.00	0.00			0.00	0.00	0.00		
11/30/1997	0.00	0.00			0.00	0.00	0.00		
12/31/1997	0.00	0.00			0.00	0.00	0.00		
1/31/1998	0.00	0.00			0.00	0.00	0.00		
2/28/1998	1.71	0.85	0.49		0.05	0.02	0.00	0.000	0.000
3/31/1998	4.60	0.12	0.03		0.19	0.03	0.00	0.000	0.000
4/30/1998	4.35	0.14	0.03		0.32	0.03	0.00	0.000	0.000
5/31/1998	3.97	0.12	0.03		0.44	0.04	0.00	0.000	0.000
6/30/1998	3.11	0.03	0.01		0.54	0.04	0.00	0.000	0.000
7/31/1998	3.52	0.04	0.01		0.65	0.04	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
8/31/1998	3.52	0.03	0.01		0.76	0.04	0.00	0.000	0.000
9/30/1998	3.33	0.03	0.01		0.86	0.04	0.00	0.000	0.000
10/31/1998	3.18	0.04	0.01		0.95	0.04	0.00	0.000	0.000
11/30/1998	2.82	0.06	0.02		1.04	0.04	0.00	0.000	0.000
12/31/1998	2.82	0.03	0.01		1.13	0.04	0.00	0.000	0.000
1/31/1999	2.82	0.03	0.01		1.21	0.04	0.00	0.000	0.000
2/28/1999	2.69	0.01	0.01		1.29	0.04	0.00	0.000	0.000
3/31/1999	2.71	0.03	0.01		1.37	0.05	0.00	0.000	0.000
4/30/1999	2.74	0.29	0.11		1.46	0.05	0.00	0.000	0.000
5/31/1999	2.76	0.25	0.09		1.54	0.06	0.00	0.000	0.000
6/30/1999	3.00	0.06	0.02		1.63	0.06	0.00	0.000	0.000
7/31/1999	2.75	0.05	0.02		1.72	0.06	0.00	0.000	0.000
8/31/1999	2.65	0.04	0.01		1.80	0.07	0.00	0.000	0.000
9/30/1999	2.64	0.03	0.01		1.88	0.07	0.00	0.000	0.000
10/31/1999	2.58	0.04	0.01		1.96	0.07	0.00	0.000	0.000
11/30/1999	2.60	0.05	0.02		2.04	0.07	0.00	0.000	0.000
12/31/1999	2.59	0.05	0.02		2.12	0.07	0.00	0.000	0.000
1/31/2000	2.49	0.03	0.01		2.19	0.07	0.00	0.000	0.000
2/29/2000	2.37	0.02	0.01		2.26	0.07	0.00	0.000	0.000
3/31/2000	2.30	0.08	0.04		2.33	0.08	0.00	0.000	0.000
4/30/2000	2.39	0.02	0.01		2.41	0.08	0.00	0.000	0.000
5/31/2000	2.18	0.02	0.01		2.47	0.08	0.00	0.000	0.000
6/30/2000	2.29	0.02	0.01		2.54	0.08	0.00	0.000	0.000
7/31/2000	2.34	0.02	0.01		2.61	0.08	0.00	0.000	0.000
8/31/2000	2.25	0.02	0.01		2.68	0.08	0.00	0.000	0.000
9/30/2000	2.14	0.02	0.01		2.75	0.08	0.00	0.000	0.000
10/31/2000	2.22	0.01	0.01		2.82	0.08	0.00	0.000	0.000
11/30/2000	2.32	0.01	0.01		2.89	0.08	0.00	0.000	0.000
12/31/2000	2.16	0.02	0.01		2.95	0.08	0.00	0.000	0.000
1/31/2001	2.13	0.02	0.01		3.02	0.08	0.00	0.000	0.000
2/28/2001	2.17	0.05	0.02		3.08	0.08	0.00	0.000	0.000
3/31/2001	2.12	0.05	0.02		3.15	0.08	0.00	0.000	0.000
4/30/2001	2.06	0.05	0.02		3.21	0.08	0.00	0.000	0.000
5/31/2001	2.02	0.05	0.02		3.27	0.09	0.00	0.000	0.000
6/30/2001	1.82	0.08	0.04		3.32	0.09	0.00	0.000	0.000
7/31/2001	1.62	0.09	0.05		3.37	0.09	0.00	0.000	0.000
8/31/2001	1.65	0.11	0.07		3.43	0.09	0.00	0.000	0.000
9/30/2001	1.59	0.11	0.07		3.47	0.10	0.00	0.000	0.000
10/31/2001	1.56	0.14	0.09		3.52	0.10	0.00	0.000	0.000
11/30/2001	1.54	0.15	0.09		3.57	0.11	0.00	0.000	0.000
12/31/2001	1.51	0.16	0.11		3.62	0.11	0.00	0.000	0.000
1/31/2002	1.49	0.16	0.11		3.66	0.12	0.00	0.000	0.000
2/28/2002	1.50	0.17	0.11		3.70	0.12	0.00	0.000	0.000
3/31/2002	1.53	0.18	0.12		3.75	0.13	0.00	0.000	0.000
4/30/2002	1.52	0.18	0.12		3.80	0.13	0.00	0.000	0.000
5/31/2002	1.49	0.17	0.11		3.84	0.14	0.00	0.000	0.000
6/30/2002	1.45	0.17	0.11		3.89	0.14	0.00	0.000	0.000
7/31/2002	1.42	0.16	0.11		3.93	0.15	0.00	0.000	0.000

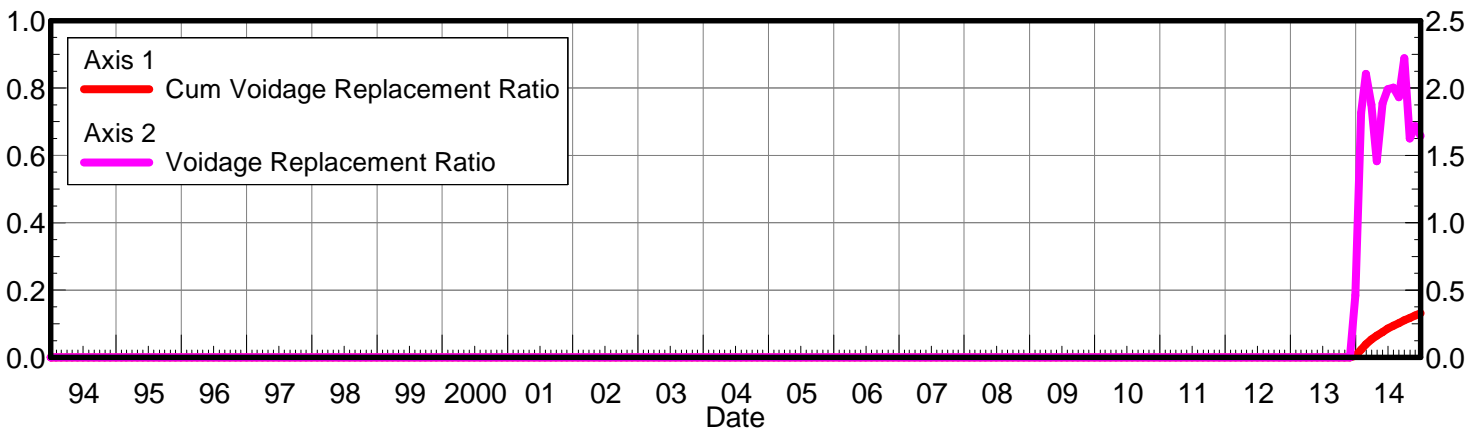
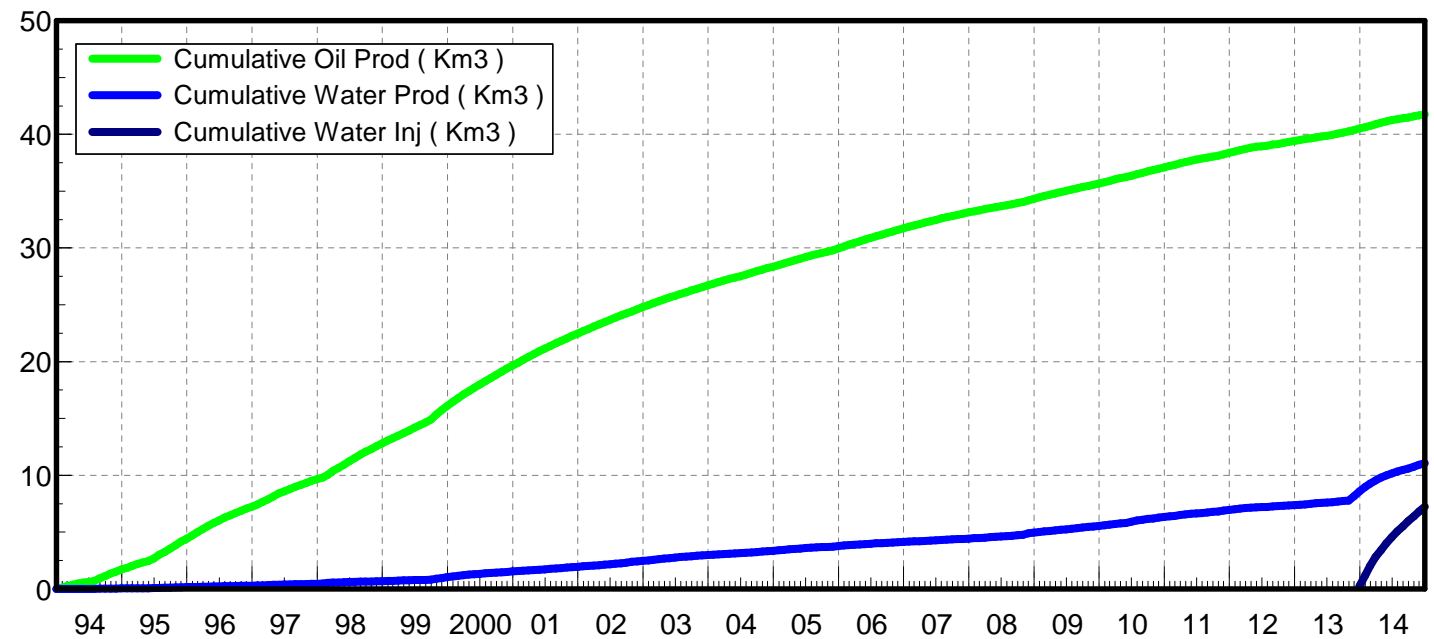
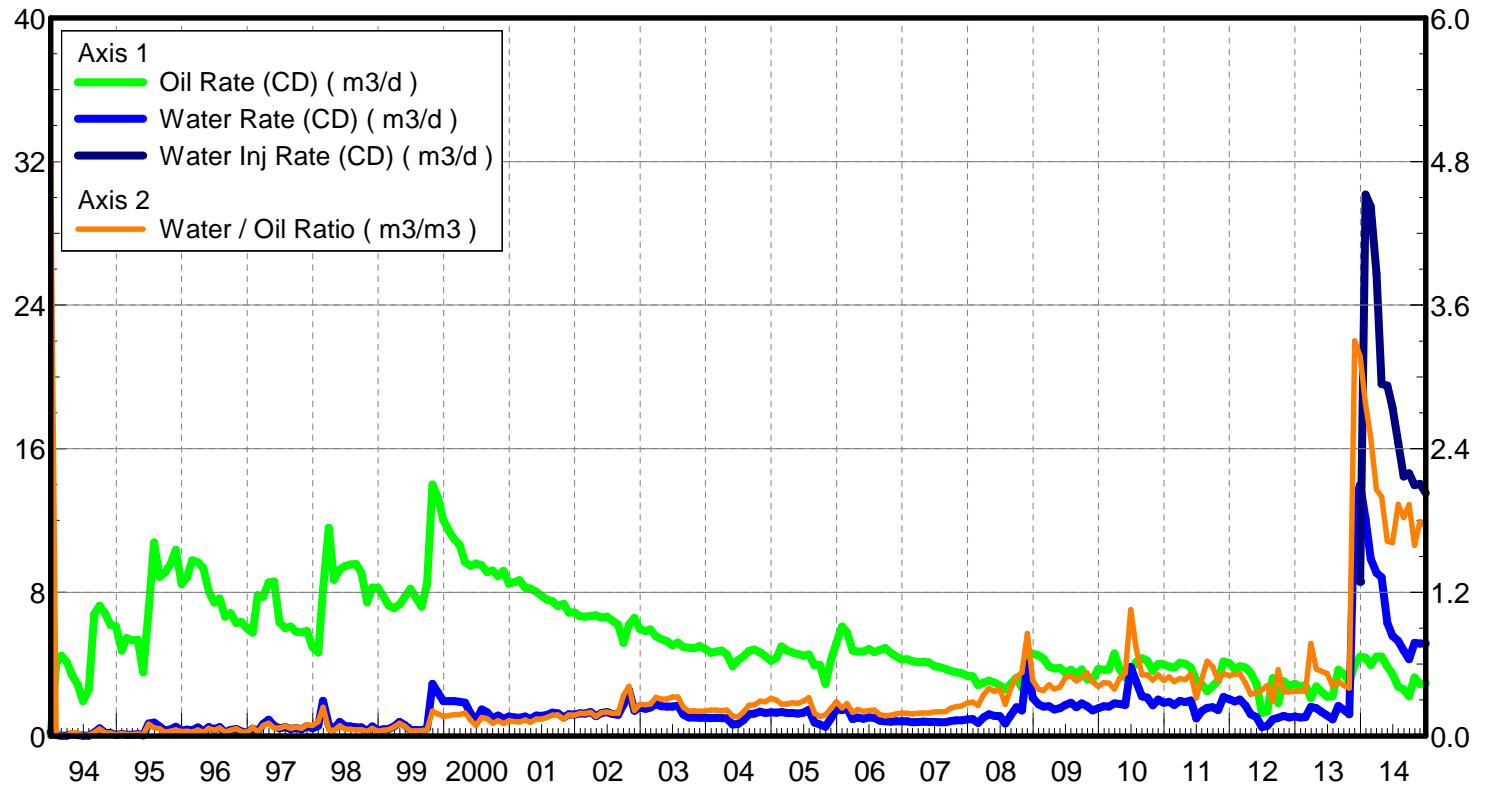
Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	Voidage Replacement Ratio	Cum Voidage Replacemt Ratio
8/31/2002	1.46	0.09	0.06		3.98	0.15	0.00	0.000	0.000
9/30/2002	1.41	0.08	0.05		4.02	0.15	0.00	0.000	0.000
10/31/2002	1.36	0.10	0.08		4.06	0.16	0.00	0.000	0.000
11/30/2002	1.44	0.10	0.07		4.10	0.16	0.00	0.000	0.000
12/31/2002	1.37	0.11	0.08		4.15	0.16	0.00	0.000	0.000
1/31/2003	1.36	0.11	0.08		4.19	0.17	0.00	0.000	0.000
2/28/2003	1.41	0.11	0.08		4.23	0.17	0.00	0.000	0.000
3/31/2003	1.34	0.14	0.11		4.27	0.17	0.00	0.000	0.000
4/30/2003	1.26	0.15	0.12		4.31	0.18	0.00	0.000	0.000
5/31/2003	1.32	0.16	0.12		4.35	0.18	0.00	0.000	0.000
6/30/2003	1.27	0.17	0.14		4.39	0.19	0.00	0.000	0.000
7/31/2003	1.32	0.17	0.13		4.43	0.19	0.00	0.000	0.000
8/31/2003	1.26	0.15	0.12		4.47	0.20	0.00	0.000	0.000
9/30/2003	1.24	0.12	0.10		4.50	0.20	0.00	0.000	0.000
10/31/2003	1.26	0.13	0.10		4.54	0.21	0.00	0.000	0.000
11/30/2003	1.28	0.12	0.10		4.58	0.21	0.00	0.000	0.000
12/31/2003	1.22	0.12	0.10		4.62	0.21	0.00	0.000	0.000
1/31/2004	1.21	0.13	0.10		4.66	0.22	0.00	0.000	0.000
2/29/2004	1.19	0.12	0.10		4.69	0.22	0.00	0.000	0.000
3/31/2004	1.21	0.12	0.10		4.73	0.22	0.00	0.000	0.000
4/30/2004	1.16	0.12	0.10		4.76	0.23	0.00	0.000	0.000
5/31/2004	1.08	0.12	0.11		4.80	0.23	0.00	0.000	0.000
6/30/2004	1.26	0.14	0.11		4.83	0.24	0.00	0.000	0.000
7/31/2004	1.19	0.14	0.11		4.87	0.24	0.00	0.000	0.000
8/31/2004	1.20	0.14	0.12		4.91	0.24	0.00	0.000	0.000
9/30/2004	1.23	0.14	0.11		4.94	0.25	0.00	0.000	0.000
10/31/2004	1.17	0.15	0.13		4.98	0.25	0.00	0.000	0.000
11/30/2004	1.17	0.15	0.13		5.02	0.26	0.00	0.000	0.000
12/31/2004	1.19	0.16	0.13		5.05	0.26	0.00	0.000	0.000
1/31/2005	1.21	0.16	0.13		5.09	0.27	0.00	0.000	0.000
2/28/2005	1.22	0.15	0.13		5.12	0.27	0.00	0.000	0.000
3/31/2005	1.16	0.14	0.12		5.16	0.28	0.00	0.000	0.000
4/30/2005	1.13	0.15	0.13		5.19	0.28	0.00	0.000	0.000
5/31/2005	1.12	0.14	0.13		5.23	0.29	0.00	0.000	0.000
6/30/2005	1.13	0.15	0.13		5.26	0.29	0.00	0.000	0.000
7/31/2005	1.11	0.14	0.13		5.30	0.29	0.00	0.000	0.000
8/31/2005	1.10	0.12	0.11		5.33	0.30	0.00	0.000	0.000
9/30/2005	1.11	0.12	0.11		5.36	0.30	0.00	0.000	0.000
10/31/2005	1.09	0.12	0.11		5.40	0.31	0.00	0.000	0.000
11/30/2005	1.08	0.12	0.11		5.43	0.31	0.00	0.000	0.000
12/31/2005	1.08	0.12	0.11		5.46	0.31	0.00	0.000	0.000
1/31/2006	1.06	0.12	0.11		5.50	0.32	0.00	0.000	0.000
2/28/2006	1.04	0.11	0.11		5.53	0.32	0.00	0.000	0.000
3/31/2006	0.98	0.11	0.12		5.56	0.32	0.00	0.000	0.000
4/30/2006	1.05	0.11	0.11		5.59	0.33	0.00	0.000	0.000
5/31/2006	0.99	0.14	0.14		5.62	0.33	0.00	0.000	0.000
6/30/2006	1.02	0.15	0.15		5.65	0.34	0.00	0.000	0.000
7/31/2006	1.01	0.15	0.15		5.68	0.34	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
8/31/2006	0.97	0.14	0.14		5.71	0.34	0.00	0.000	0.000
9/30/2006	1.00	0.12	0.12		5.74	0.35	0.00	0.000	0.000
10/31/2006	0.95	0.12	0.13		5.77	0.35	0.00	0.000	0.000
11/30/2006	0.95	0.12	0.13		5.80	0.36	0.00	0.000	0.000
12/31/2006	0.92	0.12	0.14		5.83	0.36	0.00	0.000	0.000
1/31/2007	0.91	0.12	0.13		5.86	0.36	0.00	0.000	0.000
2/28/2007	0.91	0.12	0.13		5.88	0.37	0.00	0.000	0.000
3/31/2007	0.91	0.12	0.13		5.91	0.37	0.00	0.000	0.000
4/30/2007	0.91	0.12	0.13		5.94	0.37	0.00	0.000	0.000
5/31/2007	0.91	0.12	0.13		5.96	0.38	0.00	0.000	0.000
6/30/2007	0.87	0.12	0.14		5.99	0.38	0.00	0.000	0.000
7/31/2007	0.81	0.12	0.15		6.02	0.38	0.00	0.000	0.000
8/31/2007	0.82	0.12	0.15		6.04	0.39	0.00	0.000	0.000
9/30/2007	0.83	0.12	0.14		6.07	0.39	0.00	0.000	0.000
10/31/2007	0.81	0.12	0.15		6.09	0.40	0.00	0.000	0.000
11/30/2007	0.79	0.12	0.15		6.11	0.40	0.00	0.000	0.000
12/31/2007	0.77	0.12	0.16		6.14	0.40	0.00	0.000	0.000
1/31/2008	0.76	0.12	0.16		6.16	0.41	0.00	0.000	0.000
2/29/2008	0.76	0.12	0.15		6.18	0.41	0.00	0.000	0.000
3/31/2008	0.74	0.14	0.19		6.21	0.41	0.00	0.000	0.000
4/30/2008	0.75	0.16	0.21		6.23	0.42	0.00	0.000	0.000
5/31/2008	0.72	0.15	0.21		6.25	0.42	0.00	0.000	0.000
6/30/2008	0.67	0.13	0.19		6.27	0.43	0.00	0.000	0.000
7/31/2008	0.74	0.15	0.21		6.30	0.43	0.00	0.000	0.000
8/31/2008	0.73	0.20	0.27		6.32	0.44	0.00	0.000	0.000
9/30/2008	0.76	0.20	0.27		6.34	0.44	0.00	0.000	0.000
10/31/2008	0.43	0.12	0.27		6.35	0.45	0.00	0.000	0.000
11/30/2008	1.75	1.93	1.10		6.41	0.51	0.00	0.000	0.000
12/31/2008	1.74	0.70	0.40		6.46	0.53	0.00	0.000	0.000
1/31/2009	1.68	0.56	0.33		6.51	0.55	0.00	0.000	0.000
2/28/2009	1.64	0.55	0.33		6.56	0.56	0.00	0.000	0.000
3/31/2009	1.34	0.45	0.33		6.60	0.57	0.00	0.000	0.000
4/30/2009	1.26	0.43	0.35		6.64	0.59	0.00	0.000	0.000
5/31/2009	1.25	0.42	0.33		6.68	0.60	0.00	0.000	0.000
6/30/2009	1.16	0.42	0.36		6.71	0.61	0.00	0.000	0.000
7/31/2009	1.26	0.47	0.37		6.75	0.63	0.00	0.000	0.000
8/31/2009	1.25	0.43	0.35		6.79	0.64	0.00	0.000	0.000
9/30/2009	1.21	0.43	0.35		6.83	0.65	0.00	0.000	0.000
10/31/2009	1.27	0.42	0.33		6.86	0.67	0.00	0.000	0.000
11/30/2009	1.25	0.41	0.32		6.90	0.68	0.00	0.000	0.000
12/31/2009	1.26	0.38	0.30		6.94	0.69	0.00	0.000	0.000
1/31/2010	1.24	0.39	0.32		6.98	0.70	0.00	0.000	0.000
2/28/2010	1.23	0.40	0.33		7.01	0.71	0.00	0.000	0.000
3/31/2010	1.66	0.57	0.35		7.07	0.73	0.00	0.000	0.000
4/30/2010	1.61	0.73	0.45		7.11	0.75	0.00	0.000	0.000
5/31/2010	1.42	0.72	0.50		7.16	0.78	0.00	0.000	0.000
6/30/2010	1.47	0.67	0.46		7.20	0.80	0.00	0.000	0.000
7/31/2010	1.29	0.63	0.48		7.24	0.82	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
8/31/2010	1.22	0.59	0.48		7.28	0.83	0.00	0.000	0.000
9/30/2010	1.31	0.61	0.47		7.32	0.85	0.00	0.000	0.000
10/31/2010	1.14	0.53	0.46		7.35	0.87	0.00	0.000	0.000
11/30/2010	1.28	0.63	0.49		7.39	0.89	0.00	0.000	0.000
12/31/2010	1.30	0.57	0.44		7.43	0.91	0.00	0.000	0.000
1/31/2011	1.26	0.59	0.47		7.47	0.92	0.00	0.000	0.000
2/28/2011	1.26	0.54	0.42		7.51	0.94	0.00	0.000	0.000
3/31/2011	1.31	0.60	0.46		7.55	0.96	0.00	0.000	0.000
4/30/2011	1.33	0.59	0.44		7.59	0.98	0.00	0.000	0.000
5/31/2011	1.26	0.57	0.45		7.63	0.99	0.00	0.000	0.000
6/30/2011	0.93	0.43	0.46		7.65	1.01	0.00	0.000	0.000
7/31/2011	1.30	0.28	0.22		7.70	1.01	0.00	0.000	0.000
8/31/2011	1.10	0.34	0.31		7.73	1.03	0.00	0.000	0.000
9/30/2011	1.26	0.42	0.34		7.77	1.04	0.00	0.000	0.000
10/31/2011	1.25	0.47	0.37		7.81	1.05	0.00	0.000	0.000
11/30/2011	1.26	0.47	0.38		7.84	1.07	0.00	0.000	0.000
12/31/2011	1.29	0.47	0.37		7.88	1.08	0.00	0.000	0.000
1/31/2012	1.20	0.44	0.37		7.92	1.10	0.00	0.000	0.000
2/29/2012	1.27	0.47	0.37		7.96	1.11	0.00	0.000	0.000
3/31/2012	1.23	0.46	0.38		8.00	1.12	0.00	0.000	0.000
4/30/2012	1.24	0.47	0.38		8.03	1.14	0.00	0.000	0.000
5/31/2012	1.27	0.48	0.38		8.07	1.15	0.00	0.000	0.000
6/30/2012	0.63	0.24	0.39		8.09	1.16	0.00	0.000	0.000
7/31/2012	0.59	0.25	0.42		8.11	1.17	0.00	0.000	0.000
8/31/2012	0.53	0.20	0.37		8.13	1.17	0.00	0.000	0.000
9/30/2012	0.31	0.13	0.41		8.14	1.18	0.00	0.000	0.000
10/31/2012	0.59	0.27	0.47		8.15	1.19	0.00	0.000	0.000
11/30/2012	0.58	0.27	0.46		8.17	1.19	0.00	0.000	0.000
12/31/2012	0.59	0.28	0.47		8.19	1.20	0.00	0.000	0.000
1/31/2013	0.60	0.28	0.47		8.21	1.21	0.00	0.000	0.000
2/28/2013	0.57	0.27	0.47		8.22	1.22	0.00	0.000	0.000
3/31/2013	0.40	0.16	0.40		8.24	1.22	0.00	0.000	0.000
4/30/2013	0.40	0.17	0.41		8.25	1.23	0.00	0.000	0.000
5/31/2013	0.39	0.17	0.43		8.26	1.23	0.00	0.000	0.000
6/30/2013	0.35	0.15	0.43		8.27	1.24	0.00	0.000	0.000
7/31/2013	0.62	0.25	0.40		8.29	1.25	0.00	0.000	0.000
8/31/2013	0.93	0.38	0.41		8.32	1.26	0.00	0.000	0.000
9/30/2013	0.76	0.32	0.42		8.34	1.27	0.00	0.000	0.000
10/31/2013	1.36	2.63	1.94		8.38	1.35	0.00	0.000	0.000
11/30/2013	6.27	3.83	0.61		8.57	1.46	0.00	0.000	0.000
12/31/2013	5.32	1.88	0.35	6.10	8.74	1.52	0.19	0.816	0.018
1/31/2014	3.28	1.03	0.32	19.77	8.84	1.55	0.80	4.420	0.074
2/28/2014	4.08	0.86	0.21	19.68	8.95	1.58	1.35	3.825	0.123
3/31/2014	3.79	0.62	0.16	21.48	9.07	1.60	2.02	4.667	0.182
4/30/2014	3.27	0.66	0.20	20.77	9.17	1.62	2.64	5.080	0.235
5/31/2014	3.23	0.67	0.21	19.90	9.27	1.64	3.26	4.909	0.287
6/30/2014	3.24	0.71	0.22	19.50	9.37	1.66	3.84	4.737	0.334
7/31/2014	3.17	0.62	0.20	19.16	9.46	1.68	4.44	4.851	0.382

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
8/31/2014	2.99	0.84	0.28	18.06	9.56	1.70	5.00	4.543	0.426
9/30/2014	2.44	1.22	0.50	18.97	9.63	1.74	5.57	5.018	0.470
10/31/2014	3.44	1.58	0.46	17.97	9.74	1.79	6.12	3.460	0.510
11/30/2014	3.33	1.53	0.46	17.50	9.84	1.84	6.65	3.476	0.547
12/31/2014	3.36	1.52	0.45	15.55	9.94	1.88	7.13	3.079	0.579

Pattern: 00/07-33-010-29Inj Set: KolaUnit#2
 Oil Formation Vol Factor : 1.05000 m3/m3
 Water Formation Vol Factor : 1.00000 m3/m3
 Water / Oil Ratio : 1.75 m3/m3
 May 06, 2015
 Operator: Tundra_O&G_Prtshp
 Oil Rate (CD) : 2.94 m3/d
 Water Rate (CD) : 5.14 m3/d
 Water Inj Rate (CD) : 13.52 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
12/31/1993	0.04	0.20	4.77		0.00	0.01	0.00	0.000	0.000
1/31/1994	4.03	0.04	0.01		0.13	0.01	0.00	0.000	0.000
2/28/1994	4.47	0.02	0.00		0.25	0.01	0.00	0.000	0.000
3/31/1994	4.12	0.01	0.00		0.38	0.01	0.00	0.000	0.000
4/30/1994	3.38	0.09	0.03		0.48	0.01	0.00	0.000	0.000
5/31/1994	2.86	0.05	0.02		0.57	0.01	0.00	0.000	0.000
6/30/1994	1.94	0.00	0.00		0.63	0.01	0.00	0.000	0.000
7/31/1994	2.57	0.02	0.01		0.71	0.01	0.00	0.000	0.000
8/31/1994	6.78	0.19	0.03		0.92	0.02	0.00	0.000	0.000
9/30/1994	7.25	0.42	0.06		1.13	0.03	0.00	0.000	0.000
10/31/1994	6.82	0.17	0.02		1.35	0.04	0.00	0.000	0.000
11/30/1994	6.19	0.15	0.02		1.53	0.04	0.00	0.000	0.000
12/31/1994	6.11	0.05	0.01		1.72	0.04	0.00	0.000	0.000
1/31/1995	4.75	0.10	0.02		1.87	0.05	0.00	0.000	0.000
2/28/1995	5.45	0.06	0.01		2.02	0.05	0.00	0.000	0.000
3/31/1995	5.32	0.07	0.01		2.19	0.05	0.00	0.000	0.000
4/30/1995	5.36	0.10	0.02		2.35	0.05	0.00	0.000	0.000
5/31/1995	3.54	0.04	0.01		2.46	0.05	0.00	0.000	0.000
6/30/1995	7.00	0.69	0.10		2.67	0.07	0.00	0.000	0.000
7/31/1995	10.78	0.75	0.07		3.00	0.10	0.00	0.000	0.000
8/31/1995	8.86	0.54	0.06		3.28	0.11	0.00	0.000	0.000
9/30/1995	9.10	0.29	0.03		3.55	0.12	0.00	0.000	0.000
10/31/1995	9.58	0.36	0.04		3.85	0.13	0.00	0.000	0.000
11/30/1995	10.37	0.51	0.05		4.16	0.15	0.00	0.000	0.000
12/31/1995	8.47	0.30	0.04		4.42	0.16	0.00	0.000	0.000
1/31/1996	8.83	0.35	0.04		4.69	0.17	0.00	0.000	0.000
2/29/1996	9.77	0.31	0.03		4.98	0.18	0.00	0.000	0.000
3/31/1996	9.68	0.47	0.05		5.28	0.19	0.00	0.000	0.000
4/30/1996	9.36	0.26	0.03		5.56	0.20	0.00	0.000	0.000
5/31/1996	8.05	0.50	0.06		5.81	0.22	0.00	0.000	0.000
6/30/1996	7.43	0.35	0.05		6.03	0.23	0.00	0.000	0.000
7/31/1996	7.65	0.50	0.06		6.27	0.24	0.00	0.000	0.000
8/31/1996	6.64	0.20	0.03		6.47	0.25	0.00	0.000	0.000
9/30/1996	6.83	0.33	0.05		6.68	0.26	0.00	0.000	0.000
10/31/1996	6.28	0.39	0.06		6.87	0.27	0.00	0.000	0.000
11/30/1996	6.34	0.24	0.04		7.06	0.28	0.00	0.000	0.000
12/31/1996	5.98	0.17	0.03		7.25	0.28	0.00	0.000	0.000
1/31/1997	5.75	0.41	0.07		7.43	0.30	0.00	0.000	0.000
2/28/1997	7.83	0.27	0.03		7.65	0.30	0.00	0.000	0.000
3/31/1997	7.74	0.68	0.09		7.89	0.32	0.00	0.000	0.000
4/30/1997	8.56	0.91	0.11		8.14	0.35	0.00	0.000	0.000
5/31/1997	8.61	0.55	0.06		8.41	0.37	0.00	0.000	0.000
6/30/1997	6.32	0.41	0.07		8.60	0.38	0.00	0.000	0.000
7/31/1997	6.01	0.50	0.08		8.78	0.40	0.00	0.000	0.000
8/31/1997	6.09	0.38	0.06		8.97	0.41	0.00	0.000	0.000
9/30/1997	5.80	0.43	0.07		9.15	0.42	0.00	0.000	0.000
10/31/1997	5.79	0.36	0.06		9.33	0.43	0.00	0.000	0.000
11/30/1997	5.85	0.55	0.09		9.50	0.45	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
12/31/1997	4.95	0.43	0.09		9.66	0.46	0.00	0.000	0.000
1/31/1998	4.65	0.56	0.12		9.80	0.48	0.00	0.000	0.000
2/28/1998	8.15	1.96	0.24		10.03	0.53	0.00	0.000	0.000
3/31/1998	11.61	0.59	0.05		10.39	0.55	0.00	0.000	0.000
4/30/1998	8.70	0.38	0.04		10.65	0.56	0.00	0.000	0.000
5/31/1998	9.26	0.78	0.08		10.94	0.59	0.00	0.000	0.000
6/30/1998	9.46	0.55	0.06		11.22	0.61	0.00	0.000	0.000
7/31/1998	9.55	0.53	0.06		11.52	0.62	0.00	0.000	0.000
8/31/1998	9.58	0.48	0.05		11.81	0.64	0.00	0.000	0.000
9/30/1998	9.08	0.48	0.05		12.09	0.65	0.00	0.000	0.000
10/31/1998	7.44	0.28	0.04		12.32	0.66	0.00	0.000	0.000
11/30/1998	8.26	0.52	0.06		12.56	0.68	0.00	0.000	0.000
12/31/1998	8.26	0.32	0.04		12.82	0.69	0.00	0.000	0.000
1/31/1999	7.77	0.37	0.05		13.06	0.70	0.00	0.000	0.000
2/28/1999	7.27	0.38	0.05		13.26	0.71	0.00	0.000	0.000
3/31/1999	7.10	0.52	0.07		13.48	0.72	0.00	0.000	0.000
4/30/1999	7.33	0.77	0.11		13.70	0.75	0.00	0.000	0.000
5/31/1999	7.75	0.61	0.08		13.94	0.77	0.00	0.000	0.000
6/30/1999	8.20	0.33	0.04		14.19	0.78	0.00	0.000	0.000
7/31/1999	7.71	0.33	0.04		14.43	0.79	0.00	0.000	0.000
8/31/1999	7.19	0.32	0.04		14.65	0.80	0.00	0.000	0.000
9/30/1999	8.46	0.41	0.05		14.91	0.81	0.00	0.000	0.000
10/31/1999	14.01	2.89	0.21		15.34	0.90	0.00	0.000	0.000
11/30/1999	13.27	2.42	0.18		15.74	0.97	0.00	0.000	0.000
12/31/1999	12.02	1.94	0.16		16.11	1.03	0.00	0.000	0.000
1/31/2000	11.41	1.93	0.17		16.46	1.09	0.00	0.000	0.000
2/29/2000	10.96	1.94	0.18		16.78	1.15	0.00	0.000	0.000
3/31/2000	10.64	1.90	0.18		17.11	1.21	0.00	0.000	0.000
4/30/2000	9.68	1.85	0.19		17.40	1.26	0.00	0.000	0.000
5/31/2000	9.47	1.27	0.13		17.70	1.30	0.00	0.000	0.000
6/30/2000	9.61	0.85	0.09		17.98	1.33	0.00	0.000	0.000
7/31/2000	9.49	1.47	0.16		18.28	1.37	0.00	0.000	0.000
8/31/2000	9.13	1.32	0.14		18.56	1.41	0.00	0.000	0.000
9/30/2000	9.22	0.98	0.11		18.84	1.44	0.00	0.000	0.000
10/31/2000	8.91	1.13	0.13		19.11	1.48	0.00	0.000	0.000
11/30/2000	9.20	0.95	0.10		19.39	1.50	0.00	0.000	0.000
12/31/2000	8.47	1.07	0.13		19.65	1.54	0.00	0.000	0.000
1/31/2001	8.57	1.03	0.12		19.92	1.57	0.00	0.000	0.000
2/28/2001	8.67	1.00	0.12		20.16	1.60	0.00	0.000	0.000
3/31/2001	8.24	1.09	0.13		20.42	1.63	0.00	0.000	0.000
4/30/2001	8.21	0.94	0.11		20.66	1.66	0.00	0.000	0.000
5/31/2001	8.03	1.13	0.14		20.91	1.69	0.00	0.000	0.000
6/30/2001	7.80	1.11	0.14		21.15	1.73	0.00	0.000	0.000
7/31/2001	7.58	1.17	0.15		21.38	1.76	0.00	0.000	0.000
8/31/2001	7.50	1.30	0.17		21.61	1.80	0.00	0.000	0.000
9/30/2001	7.22	1.27	0.18		21.83	1.84	0.00	0.000	0.000
10/31/2001	7.36	1.03	0.14		22.06	1.87	0.00	0.000	0.000
11/30/2001	6.87	1.20	0.18		22.26	1.91	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
12/31/2001	6.87	1.19	0.17		22.48	1.95	0.00	0.000	0.000
1/31/2002	6.67	1.25	0.19		22.68	1.99	0.00	0.000	0.000
2/28/2002	6.64	1.24	0.19		22.87	2.02	0.00	0.000	0.000
3/31/2002	6.67	1.32	0.20		23.08	2.06	0.00	0.000	0.000
4/30/2002	6.71	1.09	0.16		23.28	2.09	0.00	0.000	0.000
5/31/2002	6.58	1.27	0.19		23.48	2.13	0.00	0.000	0.000
6/30/2002	6.64	1.33	0.20		23.68	2.17	0.00	0.000	0.000
7/31/2002	6.43	1.22	0.19		23.88	2.21	0.00	0.000	0.000
8/31/2002	6.20	1.17	0.19		24.07	2.25	0.00	0.000	0.000
9/30/2002	5.18	1.75	0.34		24.23	2.30	0.00	0.000	0.000
10/31/2002	6.19	2.55	0.41		24.42	2.38	0.00	0.000	0.000
11/30/2002	6.56	1.40	0.21		24.62	2.42	0.00	0.000	0.000
12/31/2002	5.95	1.58	0.26		24.80	2.47	0.00	0.000	0.000
1/31/2003	5.83	1.52	0.26		24.98	2.52	0.00	0.000	0.000
2/28/2003	5.93	1.59	0.27		25.15	2.56	0.00	0.000	0.000
3/31/2003	5.54	1.78	0.32		25.32	2.62	0.00	0.000	0.000
4/30/2003	5.39	1.65	0.31		25.48	2.67	0.00	0.000	0.000
5/31/2003	5.26	1.63	0.31		25.65	2.72	0.00	0.000	0.000
6/30/2003	5.03	1.64	0.33		25.80	2.77	0.00	0.000	0.000
7/31/2003	5.19	1.69	0.32		25.96	2.82	0.00	0.000	0.000
8/31/2003	4.96	1.19	0.24		26.11	2.85	0.00	0.000	0.000
9/30/2003	4.92	1.02	0.21		26.26	2.89	0.00	0.000	0.000
10/31/2003	4.89	1.03	0.21		26.41	2.92	0.00	0.000	0.000
11/30/2003	5.00	1.02	0.20		26.56	2.95	0.00	0.000	0.000
12/31/2003	4.84	1.01	0.21		26.71	2.98	0.00	0.000	0.000
1/31/2004	4.63	0.99	0.21		26.85	3.01	0.00	0.000	0.000
2/29/2004	4.69	1.01	0.22		26.99	3.04	0.00	0.000	0.000
3/31/2004	4.75	1.00	0.21		27.14	3.07	0.00	0.000	0.000
4/30/2004	4.53	0.98	0.22		27.27	3.10	0.00	0.000	0.000
5/31/2004	3.88	0.64	0.17		27.39	3.12	0.00	0.000	0.000
6/30/2004	4.22	0.67	0.16		27.52	3.14	0.00	0.000	0.000
7/31/2004	4.42	0.89	0.20		27.66	3.17	0.00	0.000	0.000
8/31/2004	4.74	1.21	0.26		27.80	3.21	0.00	0.000	0.000
9/30/2004	4.80	1.24	0.26		27.95	3.24	0.00	0.000	0.000
10/31/2004	4.65	1.35	0.29		28.09	3.28	0.00	0.000	0.000
11/30/2004	4.45	1.27	0.29		28.23	3.32	0.00	0.000	0.000
12/31/2004	4.18	1.32	0.32		28.36	3.36	0.00	0.000	0.000
1/31/2005	4.34	1.30	0.30		28.49	3.40	0.00	0.000	0.000
2/28/2005	4.98	1.33	0.27		28.63	3.44	0.00	0.000	0.000
3/31/2005	4.75	1.27	0.27		28.78	3.48	0.00	0.000	0.000
4/30/2005	4.64	1.28	0.28		28.92	3.52	0.00	0.000	0.000
5/31/2005	4.56	1.24	0.27		29.06	3.56	0.00	0.000	0.000
6/30/2005	4.47	1.30	0.29		29.19	3.60	0.00	0.000	0.000
7/31/2005	4.54	1.45	0.32		29.33	3.64	0.00	0.000	0.000
8/31/2005	3.93	0.75	0.19		29.45	3.66	0.00	0.000	0.000
9/30/2005	3.94	0.64	0.16		29.57	3.68	0.00	0.000	0.000
10/31/2005	2.91	0.51	0.18		29.66	3.70	0.00	0.000	0.000
11/30/2005	4.22	0.97	0.23		29.79	3.73	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
12/31/2005	5.16	1.47	0.28		29.95	3.77	0.00	0.000	0.000
1/31/2006	6.10	1.43	0.23		30.14	3.82	0.00	0.000	0.000
2/28/2006	5.79	1.55	0.27		30.30	3.86	0.00	0.000	0.000
3/31/2006	4.76	0.94	0.20		30.45	3.89	0.00	0.000	0.000
4/30/2006	4.69	1.03	0.22		30.59	3.92	0.00	0.000	0.000
5/31/2006	4.69	0.96	0.20		30.73	3.95	0.00	0.000	0.000
6/30/2006	4.84	1.03	0.21		30.88	3.98	0.00	0.000	0.000
7/31/2006	4.66	1.01	0.22		31.02	4.01	0.00	0.000	0.000
8/31/2006	4.78	0.85	0.18		31.17	4.04	0.00	0.000	0.000
9/30/2006	4.90	0.81	0.17		31.32	4.06	0.00	0.000	0.000
10/31/2006	4.63	0.80	0.17		31.46	4.09	0.00	0.000	0.000
11/30/2006	4.43	0.81	0.18		31.60	4.11	0.00	0.000	0.000
12/31/2006	4.25	0.81	0.19		31.73	4.14	0.00	0.000	0.000
1/31/2007	4.28	0.80	0.19		31.86	4.16	0.00	0.000	0.000
2/28/2007	4.16	0.77	0.18		31.98	4.18	0.00	0.000	0.000
3/31/2007	4.12	0.78	0.19		32.10	4.21	0.00	0.000	0.000
4/30/2007	4.14	0.79	0.19		32.23	4.23	0.00	0.000	0.000
5/31/2007	4.10	0.78	0.19		32.35	4.26	0.00	0.000	0.000
6/30/2007	3.89	0.77	0.20		32.47	4.28	0.00	0.000	0.000
7/31/2007	3.82	0.77	0.20		32.59	4.30	0.00	0.000	0.000
8/31/2007	3.74	0.76	0.20		32.71	4.33	0.00	0.000	0.000
9/30/2007	3.61	0.84	0.23		32.81	4.35	0.00	0.000	0.000
10/31/2007	3.54	0.86	0.24		32.92	4.38	0.00	0.000	0.000
11/30/2007	3.49	0.87	0.25		33.03	4.40	0.00	0.000	0.000
12/31/2007	3.35	0.92	0.27		33.13	4.43	0.00	0.000	0.000
1/31/2008	3.33	0.94	0.28		33.24	4.46	0.00	0.000	0.000
2/29/2008	2.83	0.72	0.26		33.32	4.48	0.00	0.000	0.000
3/31/2008	2.96	1.02	0.34		33.41	4.52	0.00	0.000	0.000
4/30/2008	3.07	1.21	0.40		33.50	4.55	0.00	0.000	0.000
5/31/2008	2.97	1.11	0.37		33.59	4.59	0.00	0.000	0.000
6/30/2008	2.80	1.10	0.39		33.68	4.62	0.00	0.000	0.000
7/31/2008	2.60	0.68	0.26		33.76	4.64	0.00	0.000	0.000
8/31/2008	2.91	1.17	0.40		33.85	4.68	0.00	0.000	0.000
9/30/2008	3.24	1.59	0.49		33.95	4.72	0.00	0.000	0.000
10/31/2008	2.69	1.42	0.53		34.03	4.77	0.00	0.000	0.000
11/30/2008	4.72	4.04	0.86		34.17	4.89	0.00	0.000	0.000
12/31/2008	4.57	2.12	0.46		34.31	4.96	0.00	0.000	0.000
1/31/2009	4.48	1.75	0.39		34.45	5.01	0.00	0.000	0.000
2/28/2009	4.30	1.62	0.38		34.57	5.05	0.00	0.000	0.000
3/31/2009	3.87	1.65	0.43		34.69	5.11	0.00	0.000	0.000
4/30/2009	3.75	1.47	0.39		34.80	5.15	0.00	0.000	0.000
5/31/2009	3.78	1.54	0.41		34.92	5.20	0.00	0.000	0.000
6/30/2009	3.53	1.72	0.49		35.03	5.25	0.00	0.000	0.000
7/31/2009	3.69	1.85	0.50		35.14	5.31	0.00	0.000	0.000
8/31/2009	3.46	1.59	0.46		35.25	5.36	0.00	0.000	0.000
9/30/2009	3.70	1.80	0.49		35.36	5.41	0.00	0.000	0.000
10/31/2009	3.15	1.65	0.52		35.46	5.46	0.00	0.000	0.000
11/30/2009	3.15	1.42	0.45		35.55	5.50	0.00	0.000	0.000

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12/31/2009	3.74	1.54	0.41		35.67	5.55	0.00	0.000	0.000
1/31/2010	3.69	1.65	0.45		35.78	5.60	0.00	0.000	0.000
2/28/2010	3.70	1.63	0.44		35.89	5.65	0.00	0.000	0.000
3/31/2010	4.60	1.81	0.39		36.03	5.70	0.00	0.000	0.000
4/30/2010	3.70	1.78	0.48		36.14	5.76	0.00	0.000	0.000
5/31/2010	3.26	1.71	0.53		36.24	5.81	0.00	0.000	0.000
6/30/2010	3.65	3.85	1.05		36.35	5.93	0.00	0.000	0.000
7/31/2010	4.11	3.02	0.73		36.48	6.02	0.00	0.000	0.000
8/31/2010	4.32	2.20	0.51		36.61	6.09	0.00	0.000	0.000
9/30/2010	4.18	2.13	0.51		36.74	6.15	0.00	0.000	0.000
10/31/2010	3.63	1.70	0.47		36.85	6.20	0.00	0.000	0.000
11/30/2010	4.00	2.03	0.51		36.97	6.27	0.00	0.000	0.000
12/31/2010	3.99	1.85	0.46		37.09	6.32	0.00	0.000	0.000
1/31/2011	3.85	1.90	0.49		37.21	6.38	0.00	0.000	0.000
2/28/2011	3.81	1.73	0.45		37.32	6.43	0.00	0.000	0.000
3/31/2011	4.07	1.95	0.48		37.45	6.49	0.00	0.000	0.000
4/30/2011	4.02	1.88	0.47		37.57	6.55	0.00	0.000	0.000
5/31/2011	3.81	1.98	0.52		37.68	6.61	0.00	0.000	0.000
6/30/2011	3.07	0.98	0.32		37.78	6.64	0.00	0.000	0.000
7/31/2011	2.89	1.38	0.48		37.87	6.68	0.00	0.000	0.000
8/31/2011	2.49	1.55	0.63		37.94	6.73	0.00	0.000	0.000
9/30/2011	2.77	1.60	0.58		38.03	6.78	0.00	0.000	0.000
10/31/2011	3.08	1.43	0.46		38.12	6.82	0.00	0.000	0.000
11/30/2011	4.15	2.16	0.52		38.25	6.89	0.00	0.000	0.000
12/31/2011	4.06	2.05	0.50		38.37	6.95	0.00	0.000	0.000
1/31/2012	3.73	1.92	0.52		38.49	7.01	0.00	0.000	0.000
2/29/2012	3.88	2.02	0.52		38.60	7.07	0.00	0.000	0.000
3/31/2012	3.81	1.68	0.44		38.72	7.12	0.00	0.000	0.000
4/30/2012	3.51	1.21	0.35		38.82	7.16	0.00	0.000	0.000
5/31/2012	2.90	1.05	0.36		38.91	7.19	0.00	0.000	0.000
6/30/2012	1.28	0.49	0.38		38.95	7.20	0.00	0.000	0.000
7/31/2012	1.36	0.57	0.42		38.99	7.22	0.00	0.000	0.000
8/31/2012	3.22	0.93	0.29		39.09	7.25	0.00	0.000	0.000
9/30/2012	1.83	1.01	0.55		39.15	7.28	0.00	0.000	0.000
10/31/2012	3.03	1.11	0.37		39.24	7.32	0.00	0.000	0.000
11/30/2012	2.79	1.03	0.37		39.33	7.35	0.00	0.000	0.000
12/31/2012	2.90	1.08	0.37		39.42	7.38	0.00	0.000	0.000
1/31/2013	2.74	1.03	0.38		39.50	7.41	0.00	0.000	0.000
2/28/2013	2.83	1.05	0.37		39.58	7.44	0.00	0.000	0.000
3/31/2013	2.09	1.61	0.77		39.65	7.49	0.00	0.000	0.000
4/30/2013	2.76	1.54	0.56		39.73	7.54	0.00	0.000	0.000
5/31/2013	2.45	1.32	0.54		39.80	7.58	0.00	0.000	0.000
6/30/2013	2.18	1.14	0.52		39.87	7.61	0.00	0.000	0.000
7/31/2013	2.21	0.92	0.42		39.94	7.64	0.00	0.000	0.000
8/31/2013	3.68	1.67	0.45		40.05	7.69	0.00	0.000	0.000
9/30/2013	3.43	1.45	0.42		40.16	7.74	0.00	0.000	0.000
10/31/2013	3.00	1.20	0.40		40.25	7.77	0.00	0.000	0.000
11/30/2013	3.97	13.10	3.30		40.37	8.17	0.00	0.000	0.000

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12/31/2013	4.41	13.98	3.17	8.58	40.50	8.60	0.27	0.461	0.005
1/31/2014	4.35	12.06	2.77	30.16	40.64	8.97	1.20	1.814	0.023
2/28/2014	3.95	9.86	2.49	29.50	40.75	9.25	2.03	2.105	0.039
3/31/2014	4.42	9.09	2.06	25.77	40.89	9.53	2.83	1.878	0.054
4/30/2014	4.42	8.83	2.00	19.60	41.02	9.80	3.41	1.455	0.065
5/31/2014	3.86	6.29	1.63	19.52	41.14	9.99	4.02	1.886	0.076
6/30/2014	3.45	5.57	1.61	18.30	41.24	10.16	4.57	1.991	0.085
7/31/2014	2.73	5.28	1.93	16.32	41.33	10.32	5.07	2.002	0.094
8/31/2014	2.60	4.75	1.83	14.45	41.41	10.47	5.52	1.932	0.102
9/30/2014	2.21	4.27	1.93	14.63	41.47	10.60	5.96	2.222	0.110
10/31/2014	3.25	5.18	1.59	13.97	41.58	10.76	6.39	1.625	0.118
11/30/2014	2.87	5.15	1.79	14.03	41.66	10.91	6.82	1.719	0.125
12/31/2014	2.94	5.14	1.75	13.52	41.75	11.07	7.23	1.644	0.132