

**SOURIS HARTNEY UNIT NO. 1
WATERFLOOD EOR PROJECT**

ANNUAL REPORT FOR 2016

July 31, 2017

Tundra Oil and Gas Partnership

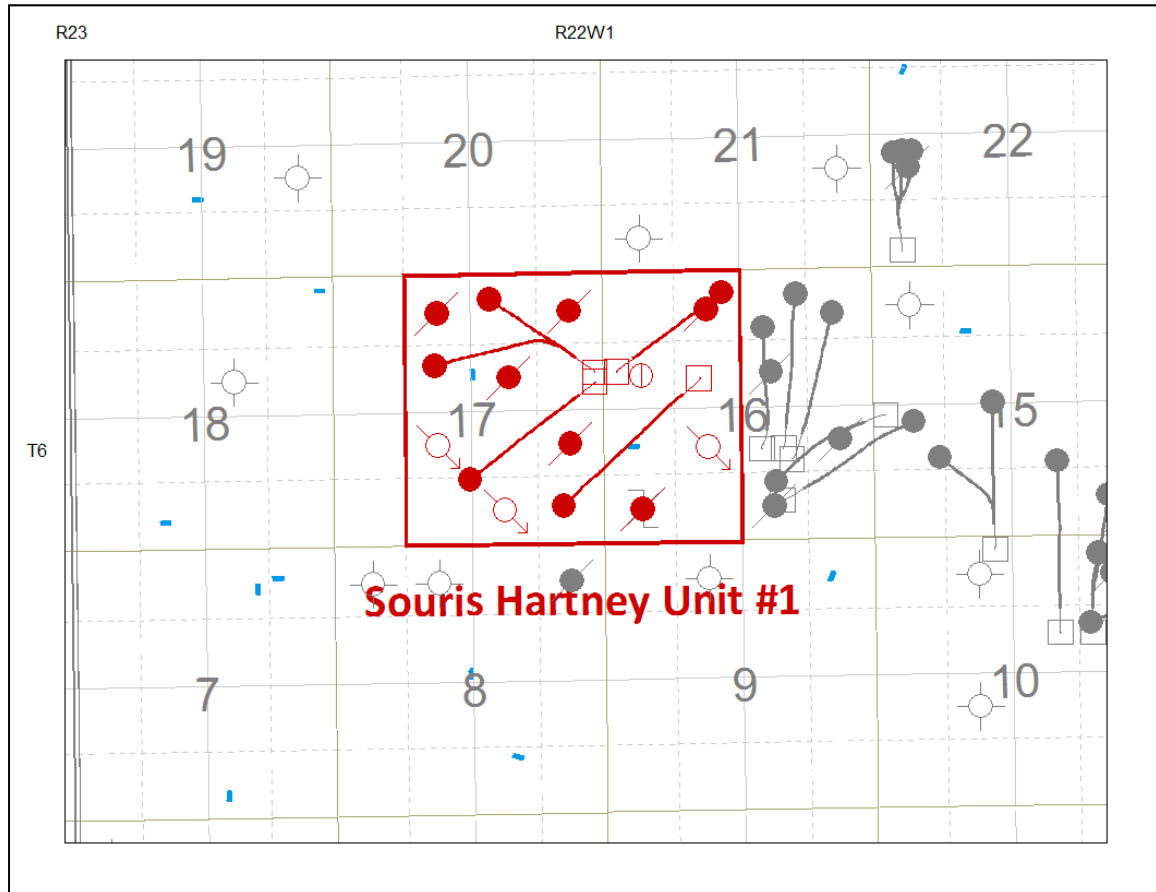
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INTRODUCTION

Souris Hartney Unit No. 1 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Waterflood Order No. 9 effective November 1, 1999 with Tundra Oil and Gas (Tundra) as Operator. The EOR project area contains 15 wells in 20 LSDs in Township 6, Range 22 W1 as shown in the figure below. Well list and well status is available in Appendix A.

Figure 1: Souris Hartney Unit No. 1 Area Outline



In accordance with Section 73 of the Manitoba Drilling and Production Regulation, Tundra hereby submits the 2016 Annual Progress Report for Souris Hartney Unit No. 1 as required by Waterflood Order No. 9.

DISCUSSION

Production History

For the wells included in Souris Hartney Unit No.1, production started November 1962 with the 00/08-17-006-22W1/0 well. Oil production peaked at 32.47 m³/d in February 1964. The Unit was producing 1.87 m³/d of oil and 85.79 m³/d of water in December 2016. The oil production rate, injection rate, and WOR during each month for each injection pattern and for whole project are presented in Appendix D. Figure 2 shows the rates and WOR for Souris Hartney Unit No. 1.

Figure 2: Souris Hartney Unit No. 1 Production/Injection Rates and WOR vs. Time

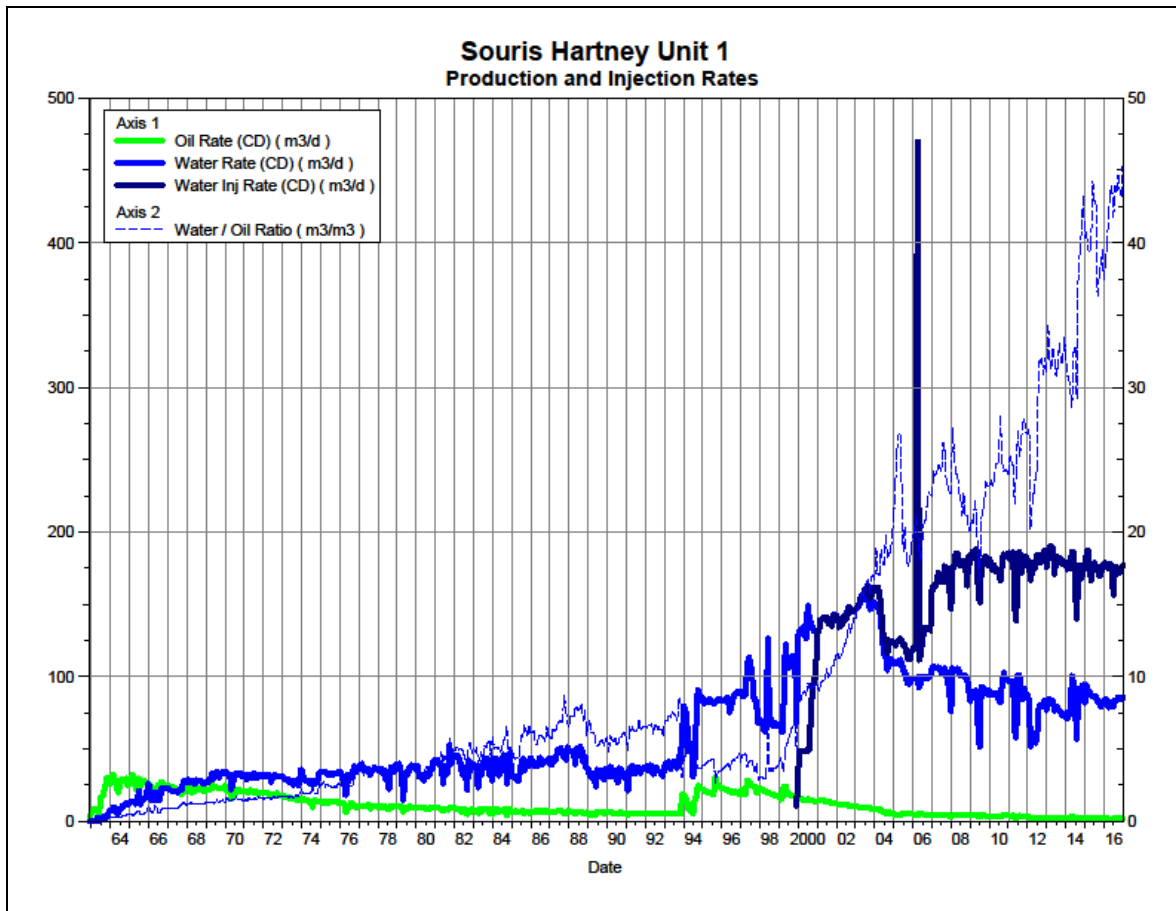
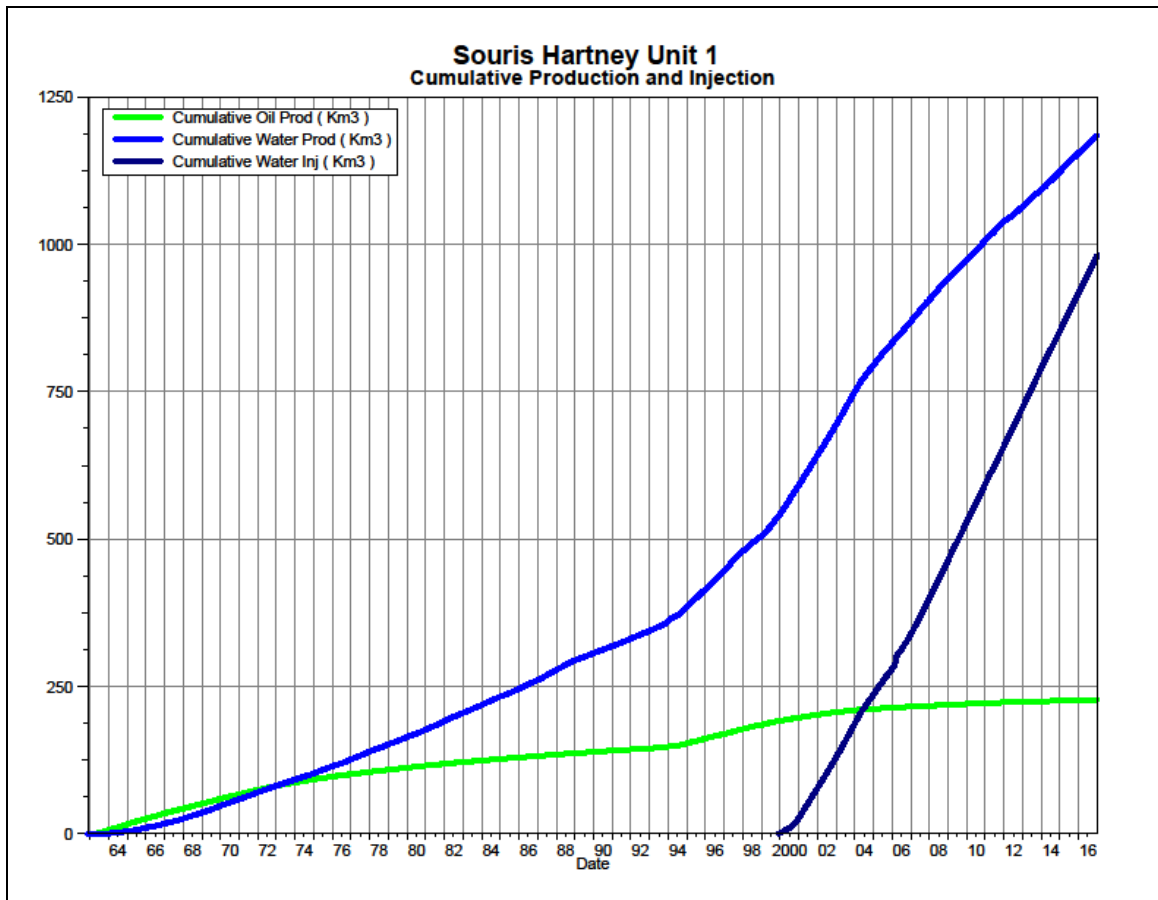


Figure 3 shows the cumulative production for Souris Hartney Unit No. 1 to the end of December 2016. Cumulative production of oil was 227.3 e³m³ and for water was 1185.1 e³m³. The cumulative water injected was 980.7 e³m³. The cumulative volume of oil, and water produced and fluid injected for each injection pattern and for the whole project for each injection well is presented in Appendix D.

Figure 3: Souris Hartney Unit No. 1 Cumulative Oil, Water and Injection vs. Time



Waterflood History

As of December 2016, Souris Hartney Unit No.1 has 3 active vertical injectors and 3 injector patterns in place. Water injection started in November 1999. An overall summary for each injector pattern is presented in Appendix C.

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

Waterflood EOR Operating Strategy and Performance

Water Source and Quality

There is no source water well in Souris Hartney Unit No. 1. Injected fluid consists of water production from the Lodgepole formation, from the unit and surrounding area, filtered to 25 microns prior to re-injection.

Injection Wellhead Pressures

The injector's 00/02-17-006-22W1, 00/06-16-006-22W1 and 00/06-17-006-22W1 wellhead pressure is available from October 2002. The monthly wellhead injection pressures for each injection well are summarized in Appendix B.

Reservoir Pressure

No reservoir pressure measurements were taken at Souris Hartney Unit No. 1 in 2016.

Well Servicing

No maintenance was required on the Souris Hartney Unit 1 wells in 2016

Voidage Replacement

Cumulative voidage for the Souris Hartney Unit No. 1 was 0.687 in December 2016. This is reasonable considering that the wells within the unit had been producing for almost forty years, prior to the start of injection. As of 2003, monthly voidage was greater than 1 and has gradually increased since then averaging 2.04, 2.00 and 2.03 in 2014, 2015 and 2016, respectively. Souris Hartney Unit No. 1 is on track to achieving a cumulative VRR of 1. Calculation, plots and tables of the Voidage Replacement Ratio on a monthly and cumulative basis for each injection pattern are presented in Appendix D.

List of Appendices

Appendix A: Well Name and Well Status

Appendix B: Monthly Injection Wellhead Pressures Table and Plots

Appendix C: Souris Hartney Unit No.1 Injection Pattern Summary

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

Plots and Tables for the following injectors:

00/06-16-006-22W1/0

00/02-17-006-22W1/0

00/06-17-006-22W1/0

Appendix A

UWI	Surface Location	Well Status
00/04-16-006-22W1/0		ABD Producer
00/06-16-006-22W1/0		WTR Injector
00/12-16-006-22W1/0		ABD Producer
00/14-16-006-22W1/0		ABD Producer
02/14-16-006-22W1/0	12-16-006-22W1	Capable of Oil Production
00/01-17-006-22W1/0	11-16-006-22W1	Capable of Oil Production
00/02-17-006-22W1/0		WTR Injector
00/03-17-006-22W1/0	09-17-006-22W1	Capable of Oil Production
00/06-17-006-22W1/0		WTR Injector
00/08-17-006-22W1/0		ABD Producer
00/10-17-006-22W1/0		ABD Producer
00/11-17-006-22W1/2	09-17-006-22W1	Capable of Oil Production
00/14-17-006-22W1/0		ABD Producer
00/15-17-006-22W1/0	09-17-006-22W1	Capable of Oil Production
00/16-17-006-22W1/0		ABD Producer

Appendix B

Average Monthly Injection Pressure (kPag)

Injection Pressure				Injection Pressure				Injection Pressure				Injection Pressure			
Month	100/06-16	100/02-17	100/06-17	Month	100/06-16	100/02-17	100/06-17	Month	100/06-16	100/02-17	100/06-17	Month	100/06-16	100/02-17	100/06-17
				Jan-06	4400	7555	7548	Jan-10	6000	7800	7800	Jan-14	3760	7079	6709
				Feb-06	4400	7657	7636	Feb-10	6000	7800	7800	Feb-14	3555	7014	6706
				Mar-06	4471	7510	7510	Mar-10	6000	7800	7800	Mar-14	3565	7119	6847
				Apr-06	4400	7553	7542	Apr-10	6000	7800	7800	Apr-14	3825	7138	6933
				May-06	4400	7740	7656	May-10	6000	7800	7800	May-14	3913	6952	6667
				Jun-06	5120	7789	7707	Jun-10	6000	7800	7800	Jun-14	4027	6560	7005
				Jul-06	5252	7824	7776	Jul-10	6000	7800	7800	Jul-14	4084	5245	6510
				Aug-06	5424	7574	7542	Aug-10	6000	7800	7800	Aug-14	3800	6494	6716
				Sep-06	5637	7401	7353	Sep-10	6000	7800	7800	Sep-14	3800	7140	6822
				Oct-06	5381	7571	7520	Oct-10	6000	7800	7800	Oct-14	3800	7148	6959
				Nov-06	5400	7640	7615	Nov-10	6000	7800	7800	Nov-14	3800	7040	6847
				Dec-06	5400	7638	7648	Dec-10	6000	7800	7800	Dec-14	3800	7129	6819
				Jan-07	5400	7575	7600	Jan-11	5826	7645	7645	Jan-15	3729	6929	6623
				Feb-07	5400	7522	7491	Feb-11	5700	7759	7759	Feb-15	3721	6679	6479
				Mar-07	5400	7505	7422	Mar-11	5700	7750	7750	Mar-15	3800	6716	6458
				Apr-07	5400	7626	7616	Apr-11	5700	7223	7223	Apr-15	3800	6800	6500
				May-07	5400	7490	7452	May-11	5516	6561	6561	May-15	3800	6771	6516
				Jun-07	5400	7592	7442	Jun-11	5780	7298	7298	Jun-15	3800	6747	6552
				Jul-07	5590	7710	7656	Jul-11	5800	7741	7741	Jul-15	3800	7200	6900
				Aug-07	5884	7657	7619	Aug-11	5800	7769	7769	Aug-15	3800	7200	6918
				Sep-07	6007	7822	7855	Sep-11	5800	7800	7800	Sep-15	3800	7200	6950
				Oct-07	6016	7618	7514	Oct-11	5748	7800	7800	Oct-15	3800	7200	6950
				Nov-07	5900	7780	7785	Nov-11	5700	7800	7800	Nov-15	3800	7200	6950
				Dec-07	5484	7460	7470	Dec-11	5700	7800	7800	Dec-15	3800	7174	6931
				Jan-08	5700	7829	7889	Jan-12	5700	7800	7800	Jan-16	3800	6800	6650
				Feb-08	5700	7772	7765	Feb-12	5700	7800	7800	Feb-16	3800	6800	6650
				Mar-08	5700	7777	7781	Mar-12	5700	7800	7800	Mar-16	3800	6800	6650
				Apr-08	5700	7824	7845	Apr-12	5700	7800	7800	Apr-16	3800	6800	6650
				May-08	5729	7865	7849	May-12	5700	7800	7800	May-16	3800	6800	6650
				Jun-08	5760	7913	7882	Jun-12	5700	7800	7800	Jun-16	3800	6800	6650
				Jul-08	5477	7942	7935	Jul-12	5700	7800	7800	Jul-16	3800	6800	6650
				Aug-08	5519	7911	7890	Aug-12	5700	7800	7800	Aug-16	4368	6665	6650
				Sep-08	5900	7977	7983	Sep-12	5650	7670	7740	Sep-16	4600	6600	6650
				Oct-08	6000	7664	7667	Oct-12	5200	7800	7800	Oct-16	4600	6600	6650
				Nov-08	6000	7877	7919	Nov-12	5200	7627	7627	Nov-16	4600	6600	6650
				Dec-08	6000	7435	7402	Dec-12	4916	7523	7523	Dec-16	4532	6484	6589
				Jan-09	6000	7681	7679	Jan-13	4806	7394	7394				
				Feb-09	6000	7800	7800	Feb-13	4900	7236	7236				
				Mar-09	6000	7800	7800	Mar-13	4945	7139	7139				
				Apr-09	6000	7800	7800	Apr-13	5013	7080	7080				
				May-09	6000	7800	7800	May-13	4806	6810	6761				
				Jun-09	6000	7800	7800	Jun-13	5290	6640	6390				
				Jul-09	6000	7800	7800	Jul-13	4523	7465	7121				
				Aug-09	6000	7800	7800	Aug-13	4355	7558	7258				
				Sep-09	6000	7800	7800	Sep-13	4250	7663	7363				
				Oct-09	6000	7800	7800	Oct-13	3932	7115	6906				
				Nov-09	6000	7800	7800	Nov-13	3655	7222	6990				
				Dec-09	6000	7800	7800	Dec-13	3748	7127	6895				
				Jan-05	4632	7916	8061								
				Feb-05	4521	7800	8012								
				Mar-05	4400	7742	7904								
				Apr-05	4400	7433	7390								
				May-05	4400	7969	7985								
				Jun-05	4400	7806	7852								
				Jul-05	4400	7858	7869								
				Aug-05	4400	7803	7702								
				Sep-05	4473	7600	7510								
				Oct-05	4413	7598	7534								
				Nov-05	4400	7760	7757								
				Dec-05	4400	7687	7687								

Appendix C

Souris Hartney Unit #1 Pattern Summary as of December 2016

[illegible]

Pattern: 02-17-06-22Inj Set: SourisHartneyUnit#1

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 58.51 m3/m3

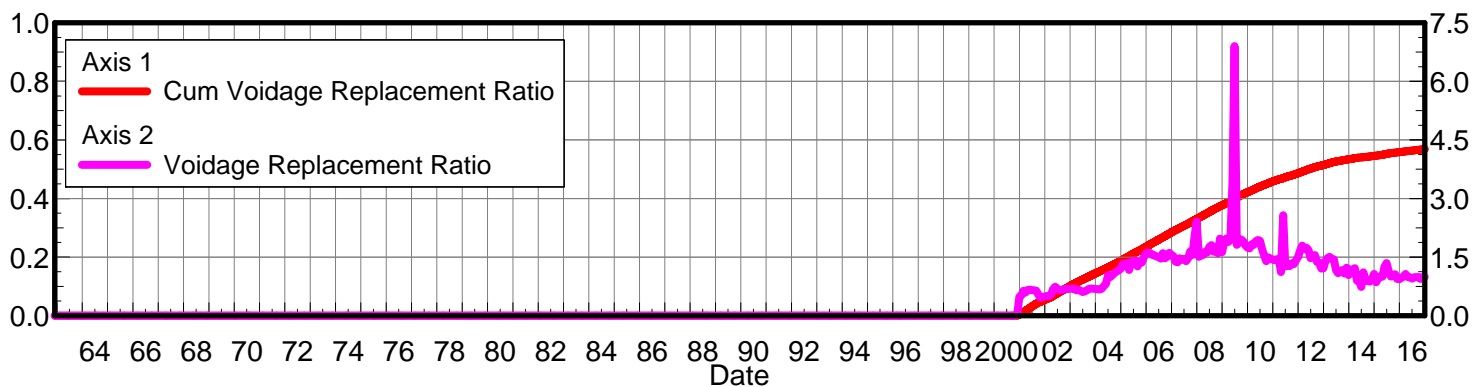
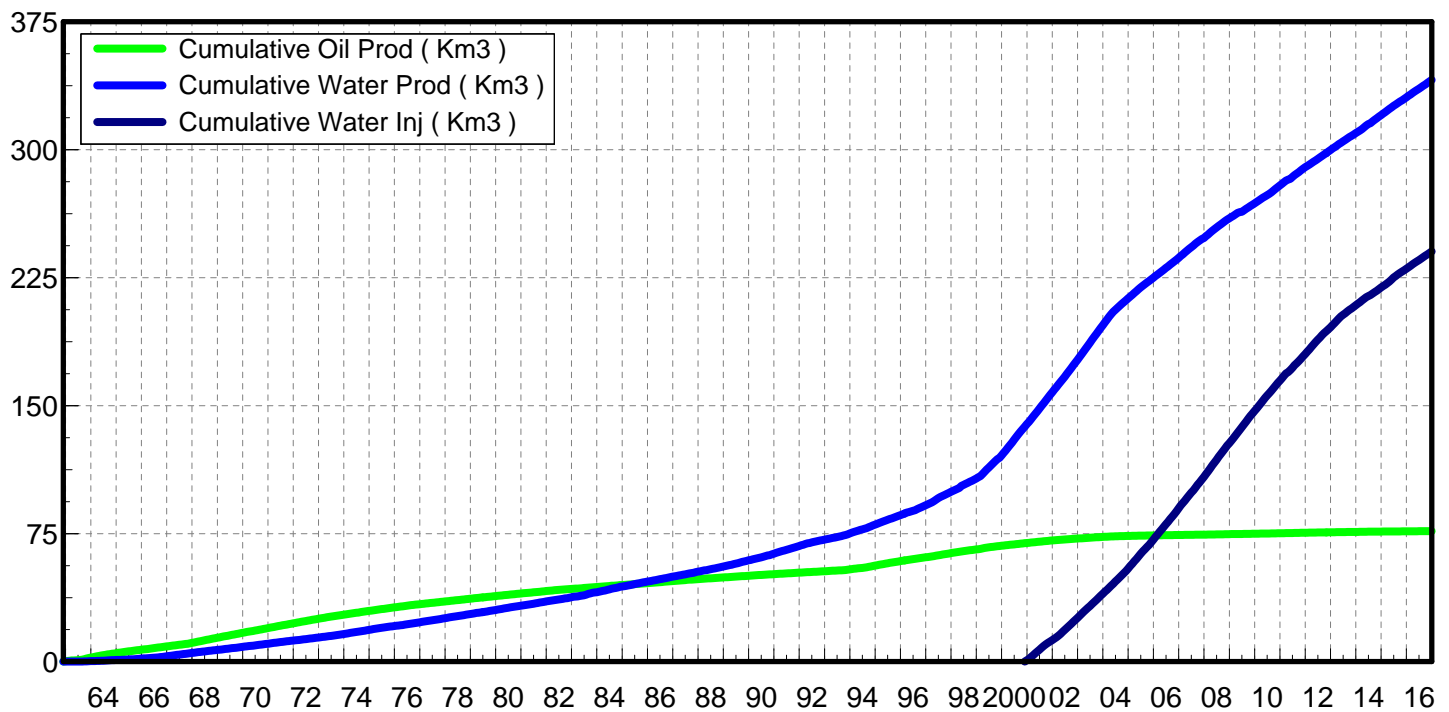
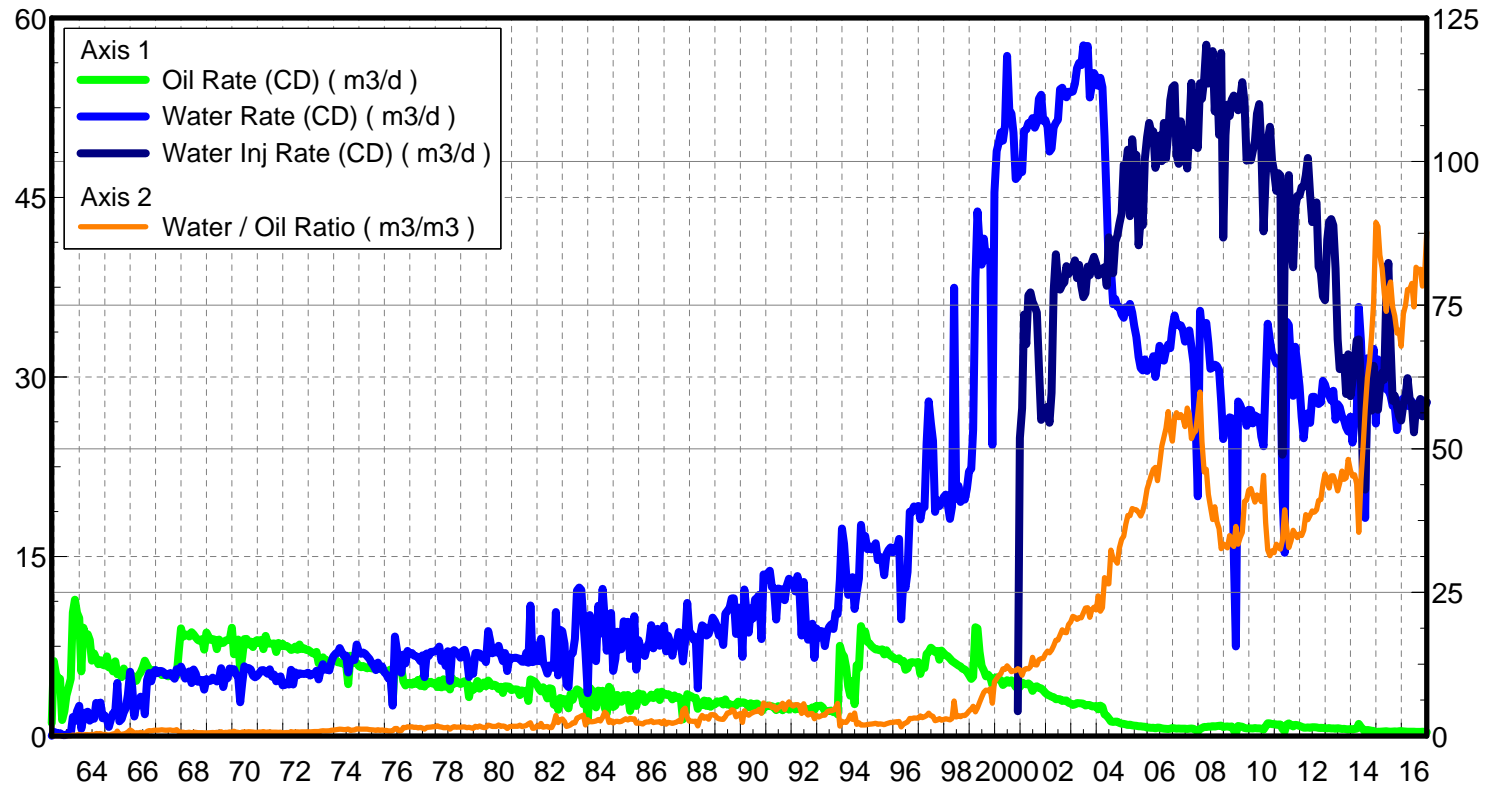
August 01, 2017

Operator: TUNDRA_OIL_&_GAS_LIMITED

Oil Rate (CD) : 0.28 m3/d

Water Rate (CD) : 27.54 m3/d

Water Inj Rate (CD) : 19.20 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 Replacement Ratio
11/30/1962	1.08	0.02	0.02		0.03	0.00	0.00	0.000	0.000
12/31/1962	6.27	0.34	0.05		0.23	0.01	0.00	0.000	0.000
1/31/1963	5.17	0.28	0.05		0.39	0.02	0.00	0.000	0.000
2/28/1963	4.83	0.18	0.04		0.52	0.02	0.00	0.000	0.000
3/31/1963	4.79	0.24	0.05		0.67	0.03	0.00	0.000	0.000
4/30/1963	1.33	0.10	0.07		0.71	0.04	0.00	0.000	0.000
5/31/1963	2.05	0.06	0.03		0.77	0.04	0.00	0.000	0.000
6/30/1963	3.38	0.11	0.03		0.88	0.04	0.00	0.000	0.000
7/31/1963	4.04	0.21	0.05		1.00	0.05	0.00	0.000	0.000
8/31/1963	4.79	0.16	0.03		1.15	0.05	0.00	0.000	0.000
9/30/1963	10.32	1.59	0.15		1.46	0.10	0.00	0.000	0.000
10/31/1963	11.39	1.25	0.11		1.81	0.14	0.00	0.000	0.000
11/30/1963	10.31	2.07	0.20		2.12	0.20	0.00	0.000	0.000
12/31/1963	9.85	2.52	0.26		2.43	0.28	0.00	0.000	0.000
1/31/1964	5.39	0.60	0.11		2.59	0.30	0.00	0.000	0.000
2/29/1964	9.04	1.57	0.17		2.86	0.34	0.00	0.000	0.000
3/31/1964	8.25	1.95	0.24		3.11	0.40	0.00	0.000	0.000
4/30/1964	8.50	2.03	0.24		3.37	0.46	0.00	0.000	0.000
5/31/1964	8.02	1.28	0.16		3.62	0.50	0.00	0.000	0.000
6/30/1964	6.30	1.81	0.29		3.80	0.56	0.00	0.000	0.000
7/31/1964	6.89	1.44	0.21		4.02	0.60	0.00	0.000	0.000
8/31/1964	6.46	2.76	0.43		4.22	0.69	0.00	0.000	0.000
9/30/1964	6.00	2.27	0.38		4.40	0.76	0.00	0.000	0.000
10/31/1964	6.34	2.78	0.44		4.59	0.84	0.00	0.000	0.000
11/30/1964	5.95	1.47	0.25		4.77	0.89	0.00	0.000	0.000
12/31/1964	5.88	1.72	0.29		4.96	0.94	0.00	0.000	0.000
1/31/1965	6.66	1.35	0.20		5.16	0.98	0.00	0.000	0.000
2/28/1965	5.73	0.75	0.13		5.32	1.00	0.00	0.000	0.000
3/31/1965	5.82	1.38	0.24		5.50	1.05	0.00	0.000	0.000
4/30/1965	5.39	1.89	0.35		5.66	1.10	0.00	0.000	0.000
5/31/1965	6.24	2.01	0.32		5.86	1.16	0.00	0.000	0.000
6/30/1965	5.15	4.43	0.86		6.01	1.30	0.00	0.000	0.000
7/31/1965	5.39	1.22	0.23		6.18	1.34	0.00	0.000	0.000
8/31/1965	4.92	1.42	0.29		6.33	1.38	0.00	0.000	0.000
9/30/1965	5.63	1.96	0.35		6.50	1.44	0.00	0.000	0.000
10/31/1965	5.18	2.32	0.45		6.66	1.51	0.00	0.000	0.000
11/30/1965	5.02	3.44	0.69		6.81	1.61	0.00	0.000	0.000
12/31/1965	5.16	5.36	1.04		6.97	1.78	0.00	0.000	0.000
1/31/1966	5.05	4.10	0.81		7.13	1.91	0.00	0.000	0.000
2/28/1966	4.58	1.63	0.35		7.26	1.95	0.00	0.000	0.000
3/31/1966	4.61	2.69	0.58		7.40	2.04	0.00	0.000	0.000
4/30/1966	5.04	2.55	0.51		7.55	2.11	0.00	0.000	0.000
5/31/1966	5.32	3.29	0.62		7.72	2.21	0.00	0.000	0.000
6/30/1966	5.73	3.18	0.56		7.89	2.31	0.00	0.000	0.000
7/31/1966	6.29	1.81	0.29		8.08	2.37	0.00	0.000	0.000
8/31/1966	5.90	4.67	0.79		8.27	2.51	0.00	0.000	0.000
9/30/1966	5.59	5.26	0.94		8.43	2.67	0.00	0.000	0.000
10/31/1966	5.12	4.56	0.89		8.59	2.81	0.00	0.000	0.000
11/30/1966	5.51	5.26	0.95		8.76	2.97	0.00	0.000	0.000
12/31/1966	5.38	5.51	1.03		8.92	3.14	0.00	0.000	0.000
1/31/1967	5.26	5.25	1.00		9.09	3.30	0.00	0.000	0.000
2/28/1967	5.37	5.43	1.01		9.24	3.45	0.00	0.000	0.000
3/31/1967	5.09	5.42	1.07		9.40	3.62	0.00	0.000	0.000
4/30/1967	5.15	5.30	1.03		9.55	3.78	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 Replacement Ratio
5/31/1967	5.08	5.08	1.00		9.71	3.94	0.00	0.000	0.000
6/30/1967	4.98	5.14	1.03		9.86	4.09	0.00	0.000	0.000
7/31/1967	5.10	5.27	1.03		10.01	4.26	0.00	0.000	0.000
8/31/1967	5.16	4.99	0.97		10.17	4.41	0.00	0.000	0.000
9/30/1967	5.03	4.79	0.95		10.33	4.55	0.00	0.000	0.000
10/31/1967	5.04	5.58	1.11		10.48	4.73	0.00	0.000	0.000
11/30/1967	7.06	5.30	0.75		10.69	4.89	0.00	0.000	0.000
12/31/1967	8.99	5.79	0.64		10.97	5.07	0.00	0.000	0.000
1/31/1968	8.28	5.39	0.65		11.23	5.23	0.00	0.000	0.000
2/29/1968	8.44	4.80	0.57		11.47	5.37	0.00	0.000	0.000
3/31/1968	8.47	5.19	0.61		11.74	5.53	0.00	0.000	0.000
4/30/1968	8.31	5.40	0.65		11.99	5.69	0.00	0.000	0.000
5/31/1968	8.67	4.42	0.51		12.25	5.83	0.00	0.000	0.000
6/30/1968	8.48	5.55	0.65		12.51	6.00	0.00	0.000	0.000
7/31/1968	8.25	5.23	0.63		12.76	6.16	0.00	0.000	0.000
8/31/1968	8.01	4.52	0.56		13.01	6.30	0.00	0.000	0.000
9/30/1968	7.94	4.65	0.59		13.25	6.44	0.00	0.000	0.000
10/31/1968	8.09	4.69	0.58		13.50	6.58	0.00	0.000	0.000
11/30/1968	7.22	3.87	0.54		13.72	6.70	0.00	0.000	0.000
12/31/1968	8.65	4.76	0.55		13.99	6.85	0.00	0.000	0.000
1/31/1969	8.31	4.57	0.55		14.24	6.99	0.00	0.000	0.000
2/28/1969	8.03	4.60	0.57		14.47	7.12	0.00	0.000	0.000
3/31/1969	8.09	4.88	0.60		14.72	7.27	0.00	0.000	0.000
4/30/1969	8.05	4.72	0.59		14.96	7.41	0.00	0.000	0.000
5/31/1969	7.25	4.55	0.63		15.19	7.55	0.00	0.000	0.000
6/30/1969	8.06	4.83	0.60		15.43	7.70	0.00	0.000	0.000
7/31/1969	7.78	5.66	0.73		15.67	7.87	0.00	0.000	0.000
8/31/1969	7.78	4.08	0.52		15.91	8.00	0.00	0.000	0.000
9/30/1969	7.96	4.99	0.63		16.15	8.15	0.00	0.000	0.000
10/31/1969	8.03	4.82	0.60		16.40	8.30	0.00	0.000	0.000
11/30/1969	8.03	5.64	0.70		16.64	8.47	0.00	0.000	0.000
12/31/1969	9.05	5.55	0.61		16.92	8.64	0.00	0.000	0.000
1/31/1970	6.83	5.58	0.82		17.13	8.81	0.00	0.000	0.000
2/28/1970	7.63	5.16	0.68		17.34	8.96	0.00	0.000	0.000
3/31/1970	8.06	5.01	0.62		17.59	9.11	0.00	0.000	0.000
4/30/1970	5.49	2.82	0.51		17.76	9.20	0.00	0.000	0.000
5/31/1970	6.60	4.46	0.68		17.96	9.34	0.00	0.000	0.000
6/30/1970	8.10	5.83	0.72		18.21	9.51	0.00	0.000	0.000
7/31/1970	8.11	5.60	0.69		18.46	9.68	0.00	0.000	0.000
8/31/1970	7.64	5.68	0.74		18.69	9.86	0.00	0.000	0.000
9/30/1970	7.88	5.56	0.71		18.93	10.03	0.00	0.000	0.000
10/31/1970	7.43	5.04	0.68		19.16	10.18	0.00	0.000	0.000
11/30/1970	7.90	4.90	0.62		19.40	10.33	0.00	0.000	0.000
12/31/1970	8.01	5.03	0.63		19.65	10.49	0.00	0.000	0.000
1/31/1971	7.76	5.26	0.68		19.89	10.65	0.00	0.000	0.000
2/28/1971	8.03	5.49	0.68		20.11	10.80	0.00	0.000	0.000
3/31/1971	7.25	5.50	0.76		20.34	10.97	0.00	0.000	0.000
4/30/1971	8.36	5.34	0.64		20.59	11.13	0.00	0.000	0.000
5/31/1971	7.73	5.20	0.67		20.83	11.29	0.00	0.000	0.000
6/30/1971	7.73	5.57	0.72		21.06	11.46	0.00	0.000	0.000
7/31/1971	7.70	4.96	0.64		21.30	11.62	0.00	0.000	0.000
8/31/1971	7.73	5.13	0.66		21.54	11.77	0.00	0.000	0.000
9/30/1971	7.01	4.56	0.65		21.75	11.91	0.00	0.000	0.000
10/31/1971	7.77	4.85	0.62		21.99	12.06	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 Replacement Ratio
11/30/1971	7.50	4.98	0.66		22.21	12.21	0.00	0.000	0.000
12/31/1971	7.71	4.23	0.55		22.45	12.34	0.00	0.000	0.000
1/31/1972	7.49	4.26	0.57		22.69	12.47	0.00	0.000	0.000
2/29/1972	7.52	4.47	0.59		22.90	12.60	0.00	0.000	0.000
3/31/1972	7.39	4.30	0.58		23.13	12.74	0.00	0.000	0.000
4/30/1972	7.19	5.53	0.77		23.35	12.90	0.00	0.000	0.000
5/31/1972	7.24	4.30	0.59		23.57	13.04	0.00	0.000	0.000
6/30/1972	7.47	5.31	0.71		23.80	13.20	0.00	0.000	0.000
7/31/1972	7.20	5.07	0.70		24.02	13.35	0.00	0.000	0.000
8/31/1972	7.64	5.23	0.68		24.26	13.51	0.00	0.000	0.000
9/30/1972	7.26	5.20	0.72		24.47	13.67	0.00	0.000	0.000
10/31/1972	7.34	5.19	0.71		24.70	13.83	0.00	0.000	0.000
11/30/1972	7.20	5.20	0.72		24.92	13.99	0.00	0.000	0.000
12/31/1972	7.20	5.29	0.73		25.14	14.15	0.00	0.000	0.000
1/31/1973	7.07	5.05	0.71		25.36	14.31	0.00	0.000	0.000
2/28/1973	6.93	5.17	0.75		25.55	14.45	0.00	0.000	0.000
3/31/1973	6.87	5.18	0.75		25.77	14.61	0.00	0.000	0.000
4/30/1973	7.03	5.44	0.77		25.98	14.78	0.00	0.000	0.000
5/31/1973	6.08	4.73	0.78		26.17	14.92	0.00	0.000	0.000
6/30/1973	6.42	5.50	0.86		26.36	15.09	0.00	0.000	0.000
7/31/1973	6.58	6.00	0.91		26.56	15.27	0.00	0.000	0.000
8/31/1973	6.35	5.54	0.87		26.76	15.45	0.00	0.000	0.000
9/30/1973	6.32	5.59	0.89		26.95	15.61	0.00	0.000	0.000
10/31/1973	6.04	5.47	0.91		27.14	15.78	0.00	0.000	0.000
11/30/1973	6.25	6.22	1.00		27.32	15.97	0.00	0.000	0.000
12/31/1973	6.63	6.67	1.01		27.53	16.18	0.00	0.000	0.000
1/31/1974	6.36	6.89	1.08		27.73	16.39	0.00	0.000	0.000
2/28/1974	6.15	6.95	1.13		27.90	16.58	0.00	0.000	0.000
3/31/1974	6.14	7.34	1.20		28.09	16.81	0.00	0.000	0.000
4/30/1974	6.07	6.99	1.15		28.27	17.02	0.00	0.000	0.000
5/31/1974	6.08	6.67	1.10		28.46	17.23	0.00	0.000	0.000
6/30/1974	5.97	6.72	1.13		28.64	17.43	0.00	0.000	0.000
7/31/1974	4.33	5.30	1.22		28.77	17.59	0.00	0.000	0.000
8/31/1974	6.71	6.38	0.95		28.98	17.79	0.00	0.000	0.000
9/30/1974	6.20	6.35	1.02		29.17	17.98	0.00	0.000	0.000
10/31/1974	6.12	6.35	1.04		29.36	18.18	0.00	0.000	0.000
11/30/1974	6.12	7.65	1.25		29.54	18.41	0.00	0.000	0.000
12/31/1974	5.82	7.02	1.21		29.72	18.63	0.00	0.000	0.000
1/31/1975	5.75	6.87	1.19		29.90	18.84	0.00	0.000	0.000
2/28/1975	5.85	6.97	1.19		30.06	19.03	0.00	0.000	0.000
3/31/1975	5.73	6.87	1.20		30.24	19.25	0.00	0.000	0.000
4/30/1975	5.65	6.66	1.18		30.41	19.45	0.00	0.000	0.000
5/31/1975	5.79	6.43	1.11		30.59	19.65	0.00	0.000	0.000
6/30/1975	5.65	6.10	1.08		30.76	19.83	0.00	0.000	0.000
7/31/1975	5.63	5.86	1.04		30.93	20.01	0.00	0.000	0.000
8/31/1975	5.63	5.50	0.98		31.11	20.18	0.00	0.000	0.000
9/30/1975	5.61	6.13	1.09		31.28	20.37	0.00	0.000	0.000
10/31/1975	5.79	5.61	0.97		31.46	20.54	0.00	0.000	0.000
11/30/1975	5.50	5.82	1.06		31.62	20.71	0.00	0.000	0.000
12/31/1975	5.50	5.31	0.97		31.79	20.88	0.00	0.000	0.000
1/31/1976	5.37	5.14	0.96		31.96	21.04	0.00	0.000	0.000
2/29/1976	5.45	4.79	0.88		32.12	21.18	0.00	0.000	0.000
3/31/1976	5.56	4.86	0.87		32.29	21.33	0.00	0.000	0.000
4/30/1976	2.78	2.53	0.91		32.37	21.40	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 Replacement Ratio
5/31/1976	6.42	8.31	1.29		32.57	21.66	0.00	0.000	0.000
6/30/1976	5.49	7.15	1.30		32.74	21.88	0.00	0.000	0.000
7/31/1976	6.64	5.85	0.88		32.94	22.06	0.00	0.000	0.000
8/31/1976	5.63	5.28	0.94		33.12	22.22	0.00	0.000	0.000
9/30/1976	4.55	6.79	1.49		33.25	22.42	0.00	0.000	0.000
10/31/1976	4.22	6.07	1.44		33.38	22.61	0.00	0.000	0.000
11/30/1976	4.42	7.11	1.61		33.52	22.83	0.00	0.000	0.000
12/31/1976	4.43	6.85	1.55		33.65	23.04	0.00	0.000	0.000
1/31/1977	4.29	6.94	1.62		33.79	23.25	0.00	0.000	0.000
2/28/1977	4.50	6.72	1.49		33.91	23.44	0.00	0.000	0.000
3/31/1977	4.35	6.66	1.53		34.05	23.65	0.00	0.000	0.000
4/30/1977	4.68	6.57	1.40		34.19	23.84	0.00	0.000	0.000
5/31/1977	4.18	6.26	1.50		34.32	24.04	0.00	0.000	0.000
6/30/1977	4.87	6.73	1.38		34.46	24.24	0.00	0.000	0.000
7/31/1977	4.13	4.91	1.19		34.59	24.39	0.00	0.000	0.000
8/31/1977	4.59	6.89	1.50		34.73	24.61	0.00	0.000	0.000
9/30/1977	4.38	6.69	1.53		34.87	24.81	0.00	0.000	0.000
10/31/1977	4.52	7.03	1.55		35.01	25.03	0.00	0.000	0.000
11/30/1977	4.36	7.03	1.61		35.14	25.24	0.00	0.000	0.000
12/31/1977	4.44	7.10	1.60		35.27	25.46	0.00	0.000	0.000
1/31/1978	4.08	7.22	1.77		35.40	25.68	0.00	0.000	0.000
2/28/1978	4.63	7.47	1.61		35.53	25.89	0.00	0.000	0.000
3/31/1978	4.06	6.26	1.54		35.66	26.08	0.00	0.000	0.000
4/30/1978	4.75	6.77	1.43		35.80	26.29	0.00	0.000	0.000
5/31/1978	4.11	5.85	1.42		35.93	26.47	0.00	0.000	0.000
6/30/1978	4.63	7.09	1.53		36.06	26.68	0.00	0.000	0.000
7/31/1978	3.89	4.59	1.18		36.19	26.82	0.00	0.000	0.000
8/31/1978	4.85	7.05	1.45		36.34	27.04	0.00	0.000	0.000
9/30/1978	4.37	7.18	1.64		36.47	27.26	0.00	0.000	0.000
10/31/1978	4.59	7.00	1.52		36.61	27.47	0.00	0.000	0.000
11/30/1978	4.44	6.86	1.54		36.74	27.68	0.00	0.000	0.000
12/31/1978	4.34	6.54	1.51		36.88	27.88	0.00	0.000	0.000
1/31/1979	4.49	7.12	1.58		37.02	28.10	0.00	0.000	0.000
2/28/1979	4.59	7.20	1.57		37.14	28.30	0.00	0.000	0.000
3/31/1979	4.55	6.51	1.43		37.29	28.51	0.00	0.000	0.000
4/30/1979	3.25	4.93	1.52		37.38	28.65	0.00	0.000	0.000
5/31/1979	4.16	5.86	1.41		37.51	28.84	0.00	0.000	0.000
6/30/1979	3.85	5.21	1.35		37.63	28.99	0.00	0.000	0.000
7/31/1979	4.10	6.94	1.69		37.75	29.21	0.00	0.000	0.000
8/31/1979	4.59	6.94	1.51		37.90	29.42	0.00	0.000	0.000
9/30/1979	3.96	6.89	1.74		38.02	29.63	0.00	0.000	0.000
10/31/1979	4.23	6.52	1.54		38.15	29.83	0.00	0.000	0.000
11/30/1979	4.47	6.51	1.46		38.28	30.03	0.00	0.000	0.000
12/31/1979	4.15	6.17	1.48		38.41	30.22	0.00	0.000	0.000
1/31/1980	4.64	8.77	1.89		38.55	30.49	0.00	0.000	0.000
2/29/1980	4.44	7.99	1.80		38.68	30.72	0.00	0.000	0.000
3/31/1980	4.17	6.91	1.66		38.81	30.93	0.00	0.000	0.000
4/30/1980	4.28	7.16	1.67		38.94	31.15	0.00	0.000	0.000
5/31/1980	4.20	6.97	1.66		39.07	31.37	0.00	0.000	0.000
6/30/1980	3.93	7.53	1.92		39.19	31.59	0.00	0.000	0.000
7/31/1980	4.12	6.78	1.65		39.32	31.80	0.00	0.000	0.000
8/31/1980	3.59	6.26	1.74		39.43	32.00	0.00	0.000	0.000
9/30/1980	4.15	6.94	1.67		39.55	32.20	0.00	0.000	0.000
10/31/1980	4.14	5.42	1.31		39.68	32.37	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 Replacement Ratio
11/30/1980	4.11	6.58	1.60		39.80	32.57	0.00	0.000	0.000
12/31/1980	3.83	6.46	1.69		39.92	32.77	0.00	0.000	0.000
1/31/1981	3.89	6.52	1.68		40.04	32.97	0.00	0.000	0.000
2/28/1981	3.90	6.55	1.68		40.15	33.16	0.00	0.000	0.000
3/31/1981	3.87	6.50	1.68		40.27	33.36	0.00	0.000	0.000
4/30/1981	3.42	6.44	1.88		40.37	33.55	0.00	0.000	0.000
5/31/1981	3.81	6.21	1.63		40.49	33.74	0.00	0.000	0.000
6/30/1981	3.60	6.20	1.72		40.60	33.93	0.00	0.000	0.000
7/31/1981	3.79	6.95	1.83		40.72	34.14	0.00	0.000	0.000
8/31/1981	2.93	6.12	2.09		40.81	34.33	0.00	0.000	0.000
9/30/1981	4.72	10.90	2.31		40.95	34.66	0.00	0.000	0.000
10/31/1981	4.63	6.17	1.33		41.09	34.85	0.00	0.000	0.000
11/30/1981	4.54	6.24	1.37		41.23	35.04	0.00	0.000	0.000
12/31/1981	4.32	7.56	1.75		41.36	35.27	0.00	0.000	0.000
1/31/1982	3.92	6.25	1.59		41.48	35.47	0.00	0.000	0.000
2/28/1982	3.73	8.13	2.18		41.59	35.70	0.00	0.000	0.000
3/31/1982	4.07	6.19	1.52		41.72	35.89	0.00	0.000	0.000
4/30/1982	3.63	5.78	1.59		41.82	36.06	0.00	0.000	0.000
5/31/1982	3.13	5.21	1.66		41.92	36.22	0.00	0.000	0.000
6/30/1982	3.99	5.89	1.48		42.04	36.40	0.00	0.000	0.000
7/31/1982	3.94	5.76	1.46		42.16	36.58	0.00	0.000	0.000
8/31/1982	2.61	5.68	2.18		42.24	36.75	0.00	0.000	0.000
9/30/1982	2.88	10.35	3.59		42.33	37.06	0.00	0.000	0.000
10/31/1982	2.19	5.06	2.31		42.40	37.22	0.00	0.000	0.000
11/30/1982	3.18	8.87	2.79		42.49	37.49	0.00	0.000	0.000
12/31/1982	2.95	8.75	2.97		42.59	37.76	0.00	0.000	0.000
1/31/1983	3.08	7.69	2.50		42.68	38.00	0.00	0.000	0.000
2/28/1983	2.59	4.30	1.66		42.75	38.12	0.00	0.000	0.000
3/31/1983	2.31	4.08	1.77		42.83	38.24	0.00	0.000	0.000
4/30/1983	3.51	6.80	1.94		42.93	38.45	0.00	0.000	0.000
5/31/1983	3.03	6.93	2.29		43.02	38.66	0.00	0.000	0.000
6/30/1983	3.59	8.12	2.26		43.13	38.91	0.00	0.000	0.000
7/31/1983	3.89	12.15	3.12		43.25	39.28	0.00	0.000	0.000
8/31/1983	3.78	12.41	3.28		43.37	39.67	0.00	0.000	0.000
9/30/1983	3.51	12.20	3.48		43.48	40.03	0.00	0.000	0.000
10/31/1983	2.64	9.58	3.63		43.56	40.33	0.00	0.000	0.000
11/30/1983	3.65	7.02	1.92		43.67	40.54	0.00	0.000	0.000
12/31/1983	1.26	3.58	2.84		43.71	40.65	0.00	0.000	0.000
1/31/1984	4.03	10.10	2.51		43.83	40.96	0.00	0.000	0.000
2/29/1984	3.81	9.39	2.46		43.94	41.24	0.00	0.000	0.000
3/31/1984	3.68	9.27	2.52		44.06	41.52	0.00	0.000	0.000
4/30/1984	2.39	6.25	2.61		44.13	41.71	0.00	0.000	0.000
5/31/1984	3.79	10.87	2.87		44.24	42.05	0.00	0.000	0.000
6/30/1984	3.27	8.55	2.61		44.34	42.31	0.00	0.000	0.000
7/31/1984	3.78	12.29	3.25		44.46	42.69	0.00	0.000	0.000
8/31/1984	2.38	9.82	4.13		44.53	42.99	0.00	0.000	0.000
9/30/1984	1.87	7.12	3.80		44.59	43.20	0.00	0.000	0.000
10/31/1984	4.11	9.63	2.34		44.72	43.50	0.00	0.000	0.000
11/30/1984	3.87	10.28	2.65		44.83	43.81	0.00	0.000	0.000
12/31/1984	2.42	5.44	2.25		44.91	43.98	0.00	0.000	0.000
1/31/1985	2.55	6.45	2.54		44.99	44.18	0.00	0.000	0.000
2/28/1985	3.42	8.71	2.54		45.08	44.42	0.00	0.000	0.000
3/31/1985	2.92	7.23	2.48		45.17	44.65	0.00	0.000	0.000
4/30/1985	2.85	7.25	2.54		45.26	44.87	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 Replacement Ratio
5/31/1985	3.42	9.58	2.80		45.37	45.16	0.00	0.000	0.000
6/30/1985	3.01	8.98	2.99		45.46	45.43	0.00	0.000	0.000
7/31/1985	3.43	9.54	2.78		45.56	45.73	0.00	0.000	0.000
8/31/1985	2.10	6.44	3.07		45.63	45.93	0.00	0.000	0.000
9/30/1985	3.01	8.68	2.88		45.72	46.19	0.00	0.000	0.000
10/31/1985	3.35	10.01	2.99		45.82	46.50	0.00	0.000	0.000
11/30/1985	2.51	5.54	2.21		45.90	46.66	0.00	0.000	0.000
12/31/1985	3.56	8.00	2.24		46.01	46.91	0.00	0.000	0.000
1/31/1986	3.34	7.34	2.20		46.11	47.14	0.00	0.000	0.000
2/28/1986	3.49	7.25	2.08		46.21	47.34	0.00	0.000	0.000
3/31/1986	2.83	6.68	2.36		46.30	47.55	0.00	0.000	0.000
4/30/1986	3.05	7.45	2.44		46.39	47.77	0.00	0.000	0.000
5/31/1986	3.20	7.81	2.44		46.49	48.01	0.00	0.000	0.000
6/30/1986	3.46	9.25	2.67		46.59	48.29	0.00	0.000	0.000
7/31/1986	3.16	7.33	2.32		46.69	48.52	0.00	0.000	0.000
8/31/1986	3.28	7.89	2.41		46.79	48.76	0.00	0.000	0.000
9/30/1986	3.66	8.95	2.45		46.90	49.03	0.00	0.000	0.000
10/31/1986	3.01	7.53	2.51		46.99	49.27	0.00	0.000	0.000
11/30/1986	3.70	8.02	2.17		47.10	49.51	0.00	0.000	0.000
12/31/1986	3.51	9.21	2.63		47.21	49.79	0.00	0.000	0.000
1/31/1987	3.43	7.07	2.06		47.32	50.01	0.00	0.000	0.000
2/28/1987	3.50	8.38	2.40		47.42	50.25	0.00	0.000	0.000
3/31/1987	3.37	7.79	2.31		47.52	50.49	0.00	0.000	0.000
4/30/1987	3.05	6.70	2.20		47.61	50.69	0.00	0.000	0.000
5/31/1987	3.38	7.74	2.29		47.72	50.93	0.00	0.000	0.000
6/30/1987	3.18	7.68	2.42		47.81	51.16	0.00	0.000	0.000
7/31/1987	3.26	8.68	2.66		47.91	51.43	0.00	0.000	0.000
8/31/1987	3.11	7.75	2.50		48.01	51.67	0.00	0.000	0.000
9/30/1987	1.38	6.23	4.51		48.05	51.86	0.00	0.000	0.000
10/31/1987	1.65	7.95	4.82		48.10	52.10	0.00	0.000	0.000
11/30/1987	3.49	11.12	3.18		48.21	52.44	0.00	0.000	0.000
12/31/1987	3.38	8.70	2.57		48.31	52.70	0.00	0.000	0.000
1/31/1988	3.31	8.49	2.57		48.41	52.97	0.00	0.000	0.000
2/29/1988	3.17	8.03	2.53		48.51	53.20	0.00	0.000	0.000
3/31/1988	3.19	8.24	2.59		48.61	53.46	0.00	0.000	0.000
4/30/1988	2.26	3.98	1.76		48.67	53.58	0.00	0.000	0.000
5/31/1988	2.79	8.28	2.96		48.76	53.83	0.00	0.000	0.000
6/30/1988	2.59	9.24	3.57		48.84	54.11	0.00	0.000	0.000
7/31/1988	2.97	9.11	3.07		48.93	54.39	0.00	0.000	0.000
8/31/1988	2.51	8.39	3.35		49.01	54.65	0.00	0.000	0.000
9/30/1988	2.92	8.51	2.92		49.09	54.91	0.00	0.000	0.000
10/31/1988	2.44	8.99	3.69		49.17	55.19	0.00	0.000	0.000
11/30/1988	2.65	9.89	3.73		49.25	55.48	0.00	0.000	0.000
12/31/1988	2.64	9.60	3.64		49.33	55.78	0.00	0.000	0.000
1/31/1989	2.89	9.16	3.17		49.42	56.06	0.00	0.000	0.000
2/28/1989	2.80	8.39	2.99		49.50	56.30	0.00	0.000	0.000
3/31/1989	2.92	8.55	2.92		49.59	56.56	0.00	0.000	0.000
4/30/1989	2.63	7.60	2.89		49.67	56.79	0.00	0.000	0.000
5/31/1989	3.05	10.23	3.35		49.76	57.11	0.00	0.000	0.000
6/30/1989	2.61	10.44	4.00		49.84	57.42	0.00	0.000	0.000
7/31/1989	2.67	10.72	4.02		49.92	57.76	0.00	0.000	0.000
8/31/1989	2.52	11.49	4.56		50.00	58.11	0.00	0.000	0.000
9/30/1989	2.61	11.51	4.40		50.08	58.46	0.00	0.000	0.000
10/31/1989	2.55	8.52	3.34		50.16	58.72	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 Replacement Ratio
11/30/1989	2.87	10.72	3.74		50.25	59.04	0.00	0.000	0.000
12/31/1989	2.75	10.72	3.90		50.33	59.37	0.00	0.000	0.000
1/31/1990	2.82	6.62	2.35		50.42	59.58	0.00	0.000	0.000
2/28/1990	2.79	12.24	4.39		50.50	59.92	0.00	0.000	0.000
3/31/1990	2.68	10.25	3.83		50.58	60.24	0.00	0.000	0.000
4/30/1990	2.40	8.63	3.60		50.65	60.50	0.00	0.000	0.000
5/31/1990	2.73	10.65	3.90		50.74	60.83	0.00	0.000	0.000
6/30/1990	2.41	9.81	4.07		50.81	61.12	0.00	0.000	0.000
7/31/1990	2.68	11.41	4.26		50.89	61.48	0.00	0.000	0.000
8/31/1990	2.70	11.55	4.27		50.98	61.84	0.00	0.000	0.000
9/30/1990	2.54	11.80	4.64		51.05	62.19	0.00	0.000	0.000
10/31/1990	2.06	8.09	3.93		51.12	62.44	0.00	0.000	0.000
11/30/1990	2.35	13.50	5.75		51.19	62.84	0.00	0.000	0.000
12/31/1990	2.45	13.00	5.32		51.26	63.25	0.00	0.000	0.000
1/31/1991	2.55	13.62	5.34		51.34	63.67	0.00	0.000	0.000
2/28/1991	2.50	13.80	5.52		51.41	64.06	0.00	0.000	0.000
3/31/1991	2.49	12.44	4.99		51.49	64.44	0.00	0.000	0.000
4/30/1991	2.38	12.35	5.19		51.56	64.81	0.00	0.000	0.000
5/31/1991	2.16	9.73	4.50		51.63	65.11	0.00	0.000	0.000
6/30/1991	2.50	12.32	4.93		51.70	65.48	0.00	0.000	0.000
7/31/1991	2.41	12.27	5.09		51.78	65.86	0.00	0.000	0.000
8/31/1991	2.15	12.24	5.70		51.84	66.24	0.00	0.000	0.000
9/30/1991	2.48	11.35	4.58		51.92	66.58	0.00	0.000	0.000
10/31/1991	2.33	12.56	5.39		51.99	66.97	0.00	0.000	0.000
11/30/1991	2.21	13.14	5.95		52.06	67.37	0.00	0.000	0.000
12/31/1991	2.38	12.92	5.42		52.13	67.77	0.00	0.000	0.000
1/31/1992	2.47	12.85	5.21		52.21	68.17	0.00	0.000	0.000
2/29/1992	2.22	12.09	5.45		52.27	68.52	0.00	0.000	0.000
3/31/1992	2.46	13.36	5.44		52.35	68.93	0.00	0.000	0.000
4/30/1992	2.27	11.97	5.27		52.41	69.29	0.00	0.000	0.000
5/31/1992	2.15	8.39	3.91		52.48	69.55	0.00	0.000	0.000
6/30/1992	2.30	12.87	5.60		52.55	69.94	0.00	0.000	0.000
7/31/1992	2.28	9.27	4.06		52.62	70.22	0.00	0.000	0.000
8/31/1992	2.22	8.05	3.63		52.69	70.47	0.00	0.000	0.000
9/30/1992	2.17	8.43	3.89		52.75	70.73	0.00	0.000	0.000
10/31/1992	2.39	9.37	3.92		52.83	71.02	0.00	0.000	0.000
11/30/1992	2.18	6.52	2.99		52.89	71.21	0.00	0.000	0.000
12/31/1992	2.52	8.98	3.57		52.97	71.49	0.00	0.000	0.000
1/31/1993	2.50	8.23	3.30		53.05	71.75	0.00	0.000	0.000
2/28/1993	2.54	8.78	3.46		53.12	71.99	0.00	0.000	0.000
3/31/1993	2.39	8.72	3.65		53.19	72.26	0.00	0.000	0.000
4/30/1993	2.08	7.51	3.61		53.26	72.49	0.00	0.000	0.000
5/31/1993	2.08	8.69	4.18		53.32	72.76	0.00	0.000	0.000
6/30/1993	2.09	9.11	4.35		53.38	73.03	0.00	0.000	0.000
7/31/1993	2.13	9.33	4.39		53.45	73.32	0.00	0.000	0.000
8/31/1993	1.99	8.93	4.50		53.51	73.60	0.00	0.000	0.000
9/30/1993	2.10	10.30	4.90		53.57	73.91	0.00	0.000	0.000
10/31/1993	1.80	10.18	5.67		53.63	74.22	0.00	0.000	0.000
11/30/1993	7.54	13.04	1.73		53.86	74.61	0.00	0.000	0.000
12/31/1993	6.91	17.34	2.51		54.07	75.15	0.00	0.000	0.000
1/31/1994	6.65	16.07	2.42		54.28	75.65	0.00	0.000	0.000
2/28/1994	5.73	13.58	2.37		54.44	76.03	0.00	0.000	0.000
3/31/1994	4.15	11.78	2.84		54.57	76.39	0.00	0.000	0.000
4/30/1994	3.36	12.20	3.63		54.67	76.76	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 Replacement Ratio
5/31/1994	4.60	13.28	2.89		54.81	77.17	0.00	0.000	0.000
6/30/1994	2.66	10.61	3.99		54.89	77.49	0.00	0.000	0.000
7/31/1994	5.92	11.95	2.02		55.07	77.86	0.00	0.000	0.000
8/31/1994	5.69	13.15	2.31		55.25	78.27	0.00	0.000	0.000
9/30/1994	9.17	17.64	1.92		55.52	78.80	0.00	0.000	0.000
10/31/1994	8.40	16.03	1.91		55.78	79.29	0.00	0.000	0.000
11/30/1994	8.73	16.73	1.92		56.05	79.79	0.00	0.000	0.000
12/31/1994	7.86	15.61	1.98		56.29	80.28	0.00	0.000	0.000
1/31/1995	7.73	15.84	2.05		56.53	80.77	0.00	0.000	0.000
2/28/1995	7.52	15.58	2.07		56.74	81.21	0.00	0.000	0.000
3/31/1995	7.36	15.76	2.14		56.97	81.69	0.00	0.000	0.000
4/30/1995	7.22	16.10	2.23		57.19	82.18	0.00	0.000	0.000
5/31/1995	7.24	14.70	2.03		57.41	82.63	0.00	0.000	0.000
6/30/1995	7.15	14.97	2.09		57.62	83.08	0.00	0.000	0.000
7/31/1995	7.24	14.81	2.05		57.85	83.54	0.00	0.000	0.000
8/31/1995	6.82	13.43	1.97		58.06	83.96	0.00	0.000	0.000
9/30/1995	7.17	15.20	2.12		58.28	84.41	0.00	0.000	0.000
10/31/1995	6.88	15.54	2.26		58.49	84.90	0.00	0.000	0.000
11/30/1995	6.71	15.76	2.35		58.69	85.37	0.00	0.000	0.000
12/31/1995	6.59	15.34	2.33		58.89	85.84	0.00	0.000	0.000
1/31/1996	6.43	15.75	2.45		59.09	86.33	0.00	0.000	0.000
2/29/1996	6.42	15.66	2.44		59.28	86.79	0.00	0.000	0.000
3/31/1996	6.49	16.46	2.54		59.48	87.30	0.00	0.000	0.000
4/30/1996	6.22	9.74	1.56		59.67	87.59	0.00	0.000	0.000
5/31/1996	6.27	13.02	2.08		59.86	87.99	0.00	0.000	0.000
6/30/1996	5.53	12.37	2.24		60.03	88.36	0.00	0.000	0.000
7/31/1996	5.64	13.72	2.43		60.20	88.79	0.00	0.000	0.000
8/31/1996	6.11	18.75	3.07		60.39	89.37	0.00	0.000	0.000
9/30/1996	6.17	18.71	3.04		60.58	89.93	0.00	0.000	0.000
10/31/1996	6.14	19.17	3.12		60.77	90.53	0.00	0.000	0.000
11/30/1996	6.10	19.01	3.12		60.95	91.10	0.00	0.000	0.000
12/31/1996	6.18	19.22	3.11		61.14	91.69	0.00	0.000	0.000
1/31/1997	5.18	18.10	3.49		61.30	92.25	0.00	0.000	0.000
2/28/1997	5.95	19.06	3.20		61.47	92.79	0.00	0.000	0.000
3/31/1997	5.67	19.11	3.37		61.65	93.38	0.00	0.000	0.000
4/30/1997	6.85	24.44	3.57		61.85	94.11	0.00	0.000	0.000
5/31/1997	7.02	27.96	3.98		62.07	94.98	0.00	0.000	0.000
6/30/1997	7.38	26.11	3.54		62.29	95.76	0.00	0.000	0.000
7/31/1997	7.21	24.66	3.42		62.51	96.53	0.00	0.000	0.000
8/31/1997	7.01	18.72	2.67		62.73	97.11	0.00	0.000	0.000
9/30/1997	7.11	19.69	2.77		62.94	97.70	0.00	0.000	0.000
10/31/1997	6.37	19.20	3.01		63.14	98.29	0.00	0.000	0.000
11/30/1997	7.13	19.50	2.73		63.36	98.88	0.00	0.000	0.000
12/31/1997	6.92	19.96	2.89		63.57	99.50	0.00	0.000	0.000
1/31/1998	6.74	20.16	2.99		63.78	100.12	0.00	0.000	0.000
2/28/1998	6.67	19.38	2.91		63.97	100.67	0.00	0.000	0.000
3/31/1998	6.46	18.14	2.81		64.17	101.23	0.00	0.000	0.000
4/30/1998	6.27	19.16	3.06		64.35	101.80	0.00	0.000	0.000
5/31/1998	6.15	37.46	6.09		64.55	102.96	0.00	0.000	0.000
6/30/1998	6.03	19.84	3.29		64.73	103.56	0.00	0.000	0.000
7/31/1998	5.89	20.90	3.55		64.91	104.21	0.00	0.000	0.000
8/31/1998	5.82	19.55	3.36		65.09	104.81	0.00	0.000	0.000
9/30/1998	5.61	20.09	3.58		65.26	105.42	0.00	0.000	0.000
10/31/1998	5.56	19.76	3.56		65.43	106.03	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 Replacement Ratio
11/30/1998	5.37	20.66	3.85		65.59	106.65	0.00	0.000	0.000
12/31/1998	5.09	22.11	4.35		65.75	107.33	0.00	0.000	0.000
1/31/1999	4.77	22.33	4.68		65.90	108.03	0.00	0.000	0.000
2/28/1999	4.95	25.60	5.18		66.03	108.74	0.00	0.000	0.000
3/31/1999	9.08	38.17	4.20		66.32	109.93	0.00	0.000	0.000
4/30/1999	8.99	43.84	4.88		66.59	111.24	0.00	0.000	0.000
5/31/1999	7.03	41.08	5.84		66.80	112.51	0.00	0.000	0.000
6/30/1999	5.86	39.39	6.73		66.98	113.70	0.00	0.000	0.000
7/31/1999	5.46	41.57	7.61		67.15	114.99	0.00	0.000	0.000
8/31/1999	4.98	39.76	7.98		67.30	116.22	0.00	0.000	0.000
9/30/1999	5.13	40.45	7.88		67.46	117.43	0.00	0.000	0.000
10/31/1999	4.89	40.15	8.22		67.61	118.68	0.00	0.000	0.000
11/30/1999	4.26	24.32	5.70		67.74	119.41	0.00	0.000	0.000
12/31/1999	4.82	45.43	9.42		67.89	120.81	0.00	0.000	0.000
1/31/2000	4.90	48.87	9.98		68.04	122.33	0.00	0.000	0.000
2/29/2000	4.73	49.51	10.48		68.17	123.76	0.00	0.000	0.000
3/31/2000	4.65	50.44	10.84		68.32	125.33	0.00	0.000	0.000
4/30/2000	4.26	49.75	11.68		68.45	126.82	0.00	0.000	0.000
5/31/2000	4.40	50.99	11.58		68.58	128.40	0.00	0.000	0.000
6/30/2000	4.66	56.83	12.21		68.72	130.11	0.00	0.000	0.000
7/31/2000	4.45	52.24	11.75		68.86	131.73	0.00	0.000	0.000
8/31/2000	4.65	52.03	11.19		69.00	133.34	0.00	0.000	0.000
9/30/2000	4.45	50.41	11.33		69.14	134.85	0.00	0.000	0.000
10/31/2000	4.09	46.54	11.38		69.27	136.29	0.00	0.000	0.000
11/30/2000	3.99	46.75	11.72	2.07	69.38	137.70	0.06	0.041	0.000
12/31/2000	4.09	47.12	11.53	24.90	69.51	139.16	0.83	0.484	0.004
1/31/2001	4.46	47.12	10.57	27.39	69.65	140.62	1.68	0.528	0.008
2/28/2001	4.39	50.58	11.53	35.21	69.77	142.03	2.67	0.637	0.012
3/31/2001	4.32	50.67	11.74	32.74	69.91	143.60	3.68	0.592	0.017
4/30/2001	4.39	51.22	11.68	36.83	70.04	145.14	4.79	0.659	0.022
5/31/2001	4.24	51.18	12.06	37.06	70.17	146.73	5.94	0.665	0.027
6/30/2001	3.77	51.63	13.70	36.30	70.28	148.28	7.03	0.652	0.031
7/31/2001	4.09	50.83	12.42	35.87	70.41	149.85	8.14	0.650	0.036
8/31/2001	4.15	51.24	12.35	35.39	70.54	151.44	9.24	0.636	0.041
9/30/2001	4.01	53.25	13.28	30.87	70.66	153.04	10.16	0.536	0.044
10/31/2001	3.98	53.58	13.46	26.42	70.78	154.70	10.98	0.457	0.048
11/30/2001	3.81	51.40	13.51	26.80	70.90	156.24	11.79	0.483	0.051
12/31/2001	3.61	51.48	14.26	27.06	71.01	157.84	12.62	0.489	0.054
1/31/2002	3.44	50.89	14.78	27.52	71.11	159.41	13.48	0.504	0.057
2/28/2002	3.38	48.83	14.47	26.18	71.21	160.78	14.21	0.499	0.060
3/31/2002	3.29	49.08	14.94	28.68	71.31	162.30	15.10	0.545	0.063
4/30/2002	3.24	50.85	15.70	37.13	71.41	163.83	16.21	0.684	0.068
5/31/2002	3.07	51.24	16.68	40.26	71.50	165.42	17.46	0.738	0.072
6/30/2002	3.08	51.49	16.71	38.03	71.60	166.96	18.60	0.694	0.076
7/31/2002	3.07	54.04	17.58	37.29	71.69	168.64	19.76	0.650	0.081
8/31/2002	2.93	54.17	18.50	37.71	71.78	170.32	20.93	0.658	0.085
9/30/2002	2.97	53.52	18.04	37.90	71.87	171.92	22.06	0.669	0.089
10/31/2002	2.97	53.37	17.99	39.26	71.96	173.58	23.28	0.694	0.093
11/30/2002	2.78	53.83	19.36	38.60	72.05	175.19	24.44	0.680	0.097
12/31/2002	2.70	53.79	19.89	39.10	72.13	176.86	25.65	0.690	0.101
1/31/2003	2.59	53.85	20.82	39.19	72.21	178.53	26.87	0.692	0.105
2/28/2003	2.64	54.50	20.66	39.75	72.28	180.05	27.98	0.693	0.109
3/31/2003	2.75	55.80	20.29	38.26	72.37	181.78	29.16	0.651	0.113
4/30/2003	2.73	56.24	20.60	39.37	72.45	183.47	30.35	0.665	0.116

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 Replacement Ratio
5/31/2003	2.73	56.06	20.57	37.61	72.54	185.21	31.51	0.638	0.120
6/30/2003	2.69	57.71	21.43	36.67	72.62	186.94	32.61	0.605	0.123
7/31/2003	2.55	56.84	22.27	37.00	72.70	188.70	33.76	0.621	0.127
8/31/2003	2.58	57.66	22.32	39.23	72.78	190.49	34.98	0.649	0.130
9/30/2003	2.58	53.35	20.65	38.50	72.85	192.09	36.13	0.686	0.134
10/31/2003	2.47	54.38	22.01	39.52	72.93	193.78	37.35	0.693	0.137
11/30/2003	2.47	55.40	22.40	40.03	73.00	195.44	38.56	0.690	0.141
12/31/2003	2.51	55.03	21.93	39.45	73.08	197.14	39.78	0.684	0.144
1/31/2004	2.23	54.32	24.39	38.48	73.15	198.83	40.97	0.679	0.148
2/29/2004	2.53	55.00	21.72	38.76	73.22	200.42	42.10	0.672	0.151
3/31/2004	2.43	54.21	22.33	39.06	73.30	202.10	43.31	0.688	0.154
4/30/2004	1.82	50.08	27.56	39.17	73.35	203.61	44.48	0.753	0.158
5/31/2004	1.68	44.49	26.55	37.61	73.41	204.98	45.65	0.813	0.161
6/30/2004	1.47	38.84	26.49	41.67	73.45	206.15	46.90	1.031	0.165
7/31/2004	1.21	39.10	32.37	39.90	73.49	207.36	48.13	0.988	0.168
8/31/2004	1.17	36.08	30.81	38.68	73.52	208.48	49.33	1.036	0.172
9/30/2004	1.19	36.52	30.60	41.30	73.56	209.58	50.57	1.093	0.175
10/31/2004	1.19	35.88	30.06	41.81	73.60	210.69	51.87	1.125	0.179
11/30/2004	1.10	35.85	32.74	42.80	73.63	211.76	53.15	1.156	0.183
12/31/2004	1.03	35.22	34.23	43.68	73.66	212.86	54.51	1.202	0.187
1/31/2005	1.00	34.94	34.77	47.74	73.69	213.94	55.99	1.326	0.191
2/28/2005	0.97	35.82	36.88	47.54	73.72	214.94	57.32	1.290	0.195
3/31/2005	0.92	35.43	38.41	49.00	73.75	216.04	58.84	1.345	0.200
4/30/2005	0.94	36.10	38.34	43.43	73.78	217.12	60.14	1.170	0.203
5/31/2005	0.89	35.38	39.59	49.87	73.80	218.22	61.69	1.373	0.208
6/30/2005	0.87	34.25	39.44	47.80	73.83	219.25	63.12	1.359	0.212
7/31/2005	0.85	33.35	39.38	48.55	73.86	220.28	64.63	1.417	0.216
8/31/2005	0.81	31.67	38.89	41.00	73.88	221.26	65.90	1.260	0.219
9/30/2005	0.80	30.75	38.28	43.30	73.91	222.19	67.19	1.370	0.223
10/31/2005	0.78	30.54	39.12	42.68	73.93	223.13	68.52	1.360	0.227
11/30/2005	0.78	31.47	40.61	48.20	73.95	224.08	69.96	1.492	0.231
12/31/2005	0.71	30.50	42.98	50.03	73.98	225.02	71.52	1.600	0.235
1/31/2006	0.70	30.91	44.16	51.23	74.00	225.98	73.10	1.618	0.240
2/28/2006	0.68	30.75	45.31	50.54	74.02	226.84	74.52	1.606	0.244
3/31/2006	0.68	31.74	46.41	50.52	74.04	227.82	76.08	1.556	0.248
4/30/2006	0.64	30.00	46.75	47.47	74.06	228.72	77.51	1.547	0.252
5/31/2006	0.70	31.25	44.44	48.42	74.08	229.69	79.01	1.513	0.256
6/30/2006	0.69	32.60	47.25	50.17	74.10	230.67	80.51	1.505	0.260
7/31/2006	0.64	32.15	50.46	48.03	74.12	231.67	82.00	1.463	0.264
8/31/2006	0.60	31.36	51.99	51.23	74.14	232.64	83.59	1.600	0.268
9/30/2006	0.60	32.21	53.54	48.23	74.16	233.61	85.04	1.468	0.272
10/31/2006	0.58	32.70	56.48	50.32	74.17	234.62	86.60	1.510	0.276
11/30/2006	0.61	32.40	53.25	53.13	74.19	235.59	88.19	1.608	0.280
12/31/2006	0.66	34.02	51.31	54.19	74.21	236.65	89.87	1.561	0.284
1/31/2007	0.64	35.15	55.31	54.39	74.23	237.74	91.56	1.518	0.289
2/28/2007	0.61	34.46	56.27	48.57	74.25	238.70	92.92	1.383	0.292
3/31/2007	0.62	34.32	55.41	47.81	74.27	239.77	94.40	1.367	0.296
4/30/2007	0.61	34.32	55.96	51.37	74.29	240.80	95.94	1.469	0.300
5/31/2007	0.61	33.92	55.34	49.65	74.31	241.85	97.48	1.436	0.303
6/30/2007	0.61	32.95	53.87	48.77	74.32	242.84	98.94	1.451	0.307
7/31/2007	0.58	33.34	57.10	47.42	74.34	243.87	100.41	1.396	0.311
8/31/2007	0.60	33.88	56.02	50.77	74.36	244.92	101.99	1.471	0.314
9/30/2007	0.63	32.52	51.76	54.57	74.38	245.89	103.62	1.644	0.318
10/31/2007	0.59	31.11	52.70	49.39	74.40	246.86	105.16	1.556	0.322

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 Replacement Ratio
11/30/2007	0.49	25.94	53.12	53.73	74.41	247.64	106.77	2.031	0.326
12/31/2007	0.36	20.02	56.16	49.13	74.42	248.26	108.29	2.408	0.330
1/31/2008	0.59	35.53	59.87	54.55	74.44	249.36	109.98	1.508	0.334
2/29/2008	0.66	33.95	51.28	53.24	74.46	250.34	111.53	1.536	0.338
3/31/2008	0.75	34.46	45.95	54.90	74.48	251.41	113.23	1.557	0.342
4/30/2008	0.74	34.51	46.43	57.77	74.51	252.45	114.96	1.636	0.346
5/31/2008	0.78	32.85	42.08	54.52	74.53	253.47	116.65	1.619	0.350
6/30/2008	0.77	30.67	39.92	55.40	74.55	254.39	118.31	1.759	0.354
7/31/2008	0.82	30.80	37.66	57.23	74.58	255.34	120.09	1.807	0.358
8/31/2008	0.78	31.02	39.91	52.19	74.60	256.30	121.70	1.638	0.362
9/30/2008	0.83	30.94	37.35	55.80	74.63	257.23	123.38	1.753	0.366
10/31/2008	0.85	30.57	36.10	50.23	74.65	258.18	124.94	1.596	0.370
11/30/2008	0.86	27.99	32.61	57.07	74.68	259.02	126.65	1.974	0.374
12/31/2008	0.74	24.81	33.44	41.65	74.70	259.79	127.94	1.626	0.377
1/31/2009	0.78	25.75	33.06	50.19	74.73	260.59	129.49	1.888	0.380
2/28/2009	0.79	25.91	32.75	52.75	74.75	261.31	130.97	1.972	0.384
3/31/2009	0.76	26.63	34.90	51.81	74.77	262.14	132.58	1.888	0.388
4/30/2009	0.79	26.55	33.46	53.17	74.80	262.93	134.17	1.941	0.391
5/31/2009	0.46	15.11	33.00	53.52	74.81	263.40	135.83	3.430	0.396
6/30/2009	0.20	7.48	36.47	53.13	74.82	263.63	137.43	6.904	0.400
7/31/2009	0.84	27.95	33.39	52.29	74.84	264.49	139.05	1.813	0.404
8/31/2009	0.80	27.65	34.56	53.23	74.87	265.35	140.70	1.867	0.407
9/30/2009	0.77	27.16	35.43	54.63	74.89	266.16	142.34	1.952	0.411
10/31/2009	0.66	27.08	40.85	52.97	74.91	267.00	143.98	1.906	0.415
11/30/2009	0.63	25.93	41.04	48.07	74.93	267.78	145.42	1.807	0.418
12/31/2009	0.64	27.26	42.79	48.68	74.95	268.63	146.93	1.742	0.421
1/31/2010	0.63	27.24	43.08	48.10	74.97	269.47	148.42	1.723	0.424
2/28/2010	0.62	26.12	41.91	48.89	74.99	270.20	149.79	1.825	0.427
3/31/2010	0.66	26.79	40.71	49.71	75.01	271.03	151.33	1.808	0.431
4/30/2010	0.64	26.64	41.95	52.00	75.03	271.83	152.89	1.903	0.434
5/31/2010	0.64	26.60	41.54	52.81	75.05	272.66	154.53	1.935	0.438
6/30/2010	0.61	25.01	40.78	49.17	75.07	273.41	156.00	1.915	0.441
7/31/2010	0.53	24.21	45.35	42.16	75.08	274.16	157.31	1.701	0.444
8/31/2010	0.80	29.53	37.14	46.74	75.11	275.07	158.76	1.538	0.447
9/30/2010	1.06	34.44	32.39	49.70	75.14	276.11	160.25	1.397	0.450
10/31/2010	1.05	33.04	31.37	50.90	75.17	277.13	161.83	1.490	0.453
11/30/2010	0.99	31.92	32.24	48.10	75.20	278.09	163.27	1.459	0.455
12/31/2010	0.99	31.66	31.92	47.13	75.23	279.07	164.73	1.440	0.458
1/31/2011	0.93	31.13	33.40	45.55	75.26	280.03	166.14	1.418	0.461
2/28/2011	0.96	31.56	32.85	47.04	75.29	280.92	167.46	1.443	0.463
3/31/2011	0.96	31.25	32.51	46.84	75.32	281.89	168.91	1.451	0.466
4/30/2011	0.60	20.41	34.02	23.50	75.34	282.50	169.62	1.116	0.467
5/31/2011	0.39	15.30	39.37	40.45	75.35	282.97	170.87	2.574	0.470
6/30/2011	0.96	34.60	36.05	44.97	75.38	284.01	172.22	1.262	0.472
7/31/2011	1.05	34.35	32.81	46.87	75.41	285.08	173.67	1.322	0.475
8/31/2011	0.91	31.10	34.01	40.74	75.44	286.04	174.94	1.270	0.477
9/30/2011	0.79	28.41	35.82	39.17	75.46	286.89	176.11	1.338	0.479
10/31/2011	0.92	32.52	35.19	44.10	75.49	287.90	177.48	1.316	0.481
11/30/2011	0.90	31.02	34.53	45.13	75.52	288.83	178.83	1.411	0.484
12/31/2011	0.83	29.21	35.16	45.16	75.54	289.74	180.23	1.501	0.486
1/31/2012	0.76	26.67	34.89	45.87	75.57	290.56	181.65	1.669	0.489
2/29/2012	0.69	24.88	35.81	45.90	75.59	291.29	182.98	1.791	0.492
3/31/2012	0.69	26.73	38.55	46.84	75.61	292.11	184.44	1.705	0.495
4/30/2012	0.72	26.98	37.64	48.30	75.63	292.92	185.88	1.741	0.497

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 Replacement Ratio
5/31/2012	0.68	26.16	38.44	45.19	75.65	293.74	187.29	1.681	0.500
6/30/2012	0.72	28.34	39.19	42.93	75.67	294.59	188.57	1.474	0.502
7/31/2012	0.73	28.34	38.96	44.16	75.69	295.46	189.94	1.517	0.505
8/31/2012	0.71	27.98	39.34	44.58	75.72	296.33	191.32	1.551	0.507
9/30/2012	0.68	27.74	41.00	39.20	75.74	297.16	192.50	1.377	0.509
10/31/2012	0.68	27.89	41.17	38.74	75.76	298.03	193.70	1.354	0.511
11/30/2012	0.68	29.68	43.75	36.73	75.78	298.92	194.80	1.208	0.513
12/31/2012	0.64	29.37	45.64	36.42	75.80	299.83	195.93	1.212	0.514
1/31/2013	0.64	28.69	44.70	41.45	75.82	300.72	197.22	1.411	0.517
2/28/2013	0.66	28.44	43.16	42.96	75.84	301.52	198.42	1.474	0.519
3/31/2013	0.62	28.04	45.27	43.19	75.86	302.38	199.76	1.505	0.521
4/30/2013	0.64	28.85	45.31	42.67	75.87	303.25	201.04	1.445	0.523
5/31/2013	0.60	26.43	44.17	39.03	75.89	304.07	202.25	1.442	0.525
6/30/2013	0.65	27.72	42.65	33.17	75.91	304.90	203.25	1.167	0.526
7/31/2013	0.62	27.48	44.03	30.65	75.93	305.75	204.19	1.089	0.528
8/31/2013	0.58	26.71	46.13	31.23	75.95	306.58	205.16	1.143	0.529
9/30/2013	0.59	26.43	44.67	31.60	75.97	307.37	206.11	1.168	0.530
10/31/2013	0.57	25.80	44.93	28.58	75.99	308.17	207.00	1.082	0.532
11/30/2013	0.53	25.43	48.14	31.90	76.00	308.94	207.95	1.227	0.533
12/31/2013	0.58	26.68	46.21	28.39	76.02	309.76	208.83	1.040	0.534
1/31/2014	0.54	24.52	45.24	29.65	76.04	310.52	209.75	1.181	0.535
2/28/2014	0.58	26.39	45.47	31.25	76.05	311.26	210.63	1.157	0.537
3/31/2014	0.60	26.54	43.87	33.06	76.07	312.09	211.65	1.216	0.538
4/30/2014	1.01	35.86	35.44	33.13	76.10	313.16	212.65	0.897	0.539
5/31/2014	0.74	32.93	44.68	29.61	76.12	314.18	213.57	0.878	0.540
6/30/2014	0.56	27.90	50.27	21.00	76.14	315.02	214.19	0.737	0.540
7/31/2014	0.32	18.22	56.76	20.58	76.15	315.58	214.83	1.109	0.541
8/31/2014	0.51	31.57	62.33	28.61	76.17	316.56	215.72	0.891	0.542
9/30/2014	0.48	31.40	65.18	28.63	76.18	317.50	216.58	0.897	0.543
10/31/2014	0.44	30.76	69.61	27.19	76.19	318.46	217.42	0.871	0.544
11/30/2014	0.43	32.35	75.53	30.93	76.21	319.43	218.35	0.943	0.545
12/31/2014	0.29	26.10	89.41	28.26	76.22	320.24	219.23	1.070	0.546
1/31/2015	0.35	31.47	88.70	27.26	76.23	321.21	220.07	0.856	0.546
2/28/2015	0.36	30.20	83.71	29.11	76.24	322.06	220.89	0.952	0.547
3/31/2015	0.37	30.07	81.42	30.35	76.25	322.99	221.83	0.996	0.548
4/30/2015	0.38	29.45	77.16	29.77	76.26	323.87	222.72	0.997	0.549
5/31/2015	0.39	28.97	73.91	36.81	76.27	324.77	223.86	1.253	0.551
6/30/2015	0.37	28.92	77.82	39.53	76.28	325.64	225.05	1.348	0.553
7/31/2015	0.36	28.42	79.03	32.58	76.29	326.52	226.06	1.131	0.554
8/31/2015	0.37	27.58	74.67	28.00	76.31	327.38	226.93	1.001	0.555
9/30/2015	0.38	27.55	73.13	28.43	76.32	328.20	227.78	1.017	0.556
10/31/2015	0.36	25.56	70.12	27.52	76.33	328.99	228.63	1.060	0.557
11/30/2015	0.40	28.03	70.66	26.73	76.34	329.84	229.43	0.940	0.558
12/31/2015	0.41	27.79	67.83	26.35	76.35	330.70	230.25	0.934	0.558
1/31/2016	0.38	28.22	73.52	27.71	76.37	331.57	231.11	0.968	0.559
2/29/2016	0.37	27.89	74.90	28.34	76.38	332.38	231.93	1.002	0.560
3/31/2016	0.35	27.58	77.73	29.90	76.39	333.24	232.86	1.069	0.561
4/30/2016	0.36	28.11	77.72	28.17	76.40	334.08	233.70	0.988	0.562
5/31/2016	0.35	27.95	78.78	27.81	76.41	334.95	234.57	0.981	0.563
6/30/2016	0.35	26.39	74.69	25.37	76.42	335.74	235.33	0.948	0.564
7/31/2016	0.34	27.64	81.60	27.58	76.43	336.59	236.18	0.985	0.565
8/31/2016	0.34	27.73	81.10	27.71	76.44	337.45	237.04	0.986	0.565
9/30/2016	0.34	28.03	81.26	28.17	76.45	338.29	237.88	0.992	0.566
10/31/2016	0.36	28.04	78.32	26.71	76.46	339.16	238.71	0.940	0.567

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 Replacement Ratio
11/30/2016	0.34	27.44	79.92	27.50	76.47	339.99	239.54	0.989	0.568
12/31/2016	0.32	27.87	87.73	27.90	76.48	340.85	240.40	0.989	0.569

Pattern: 06-16-06-22Inj Set: SourisHartneyUnit#1

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

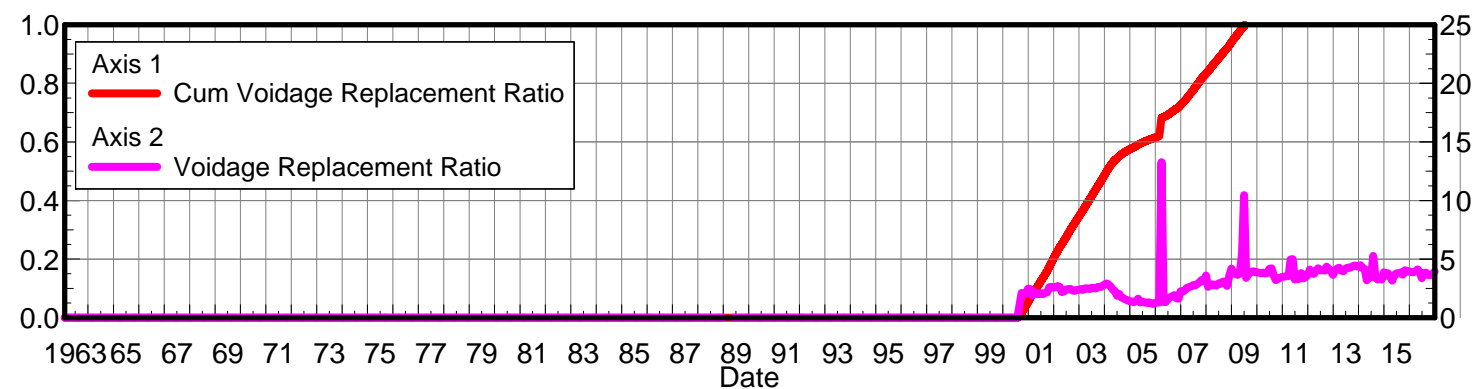
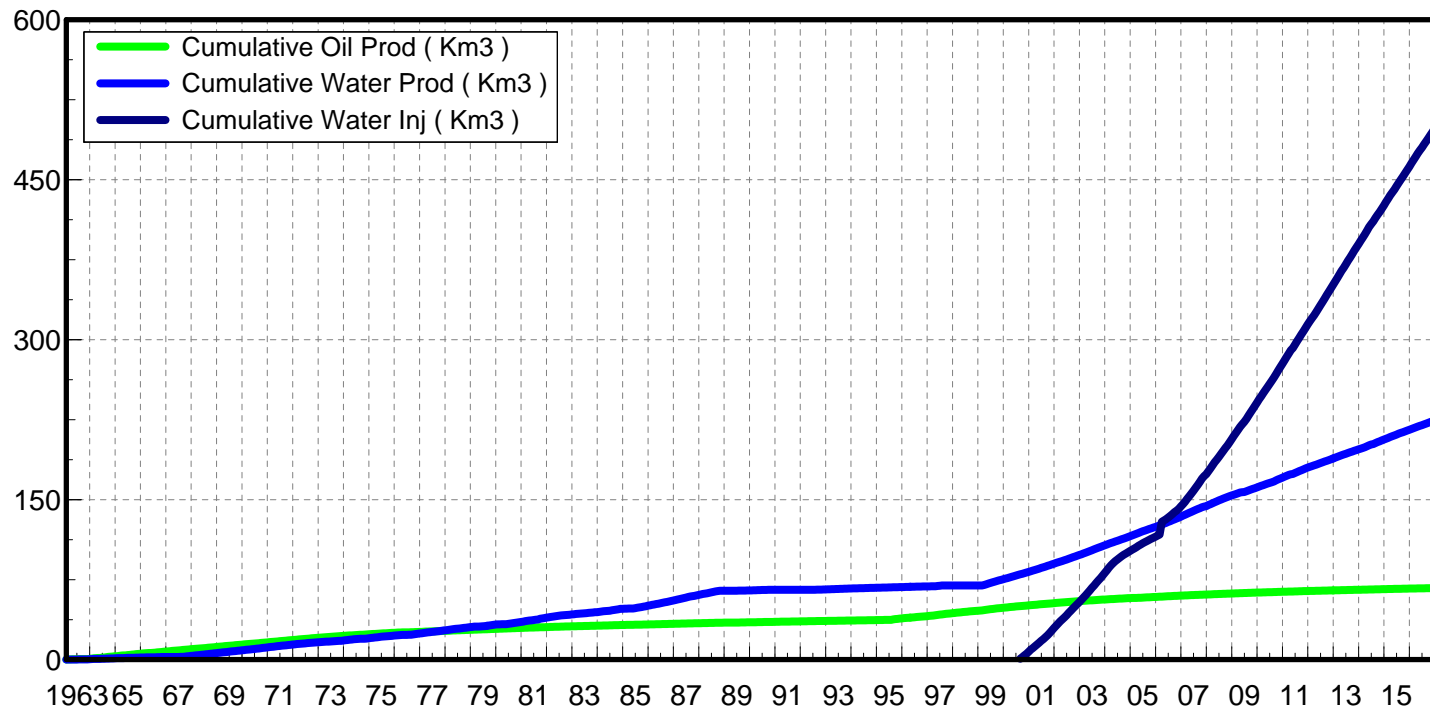
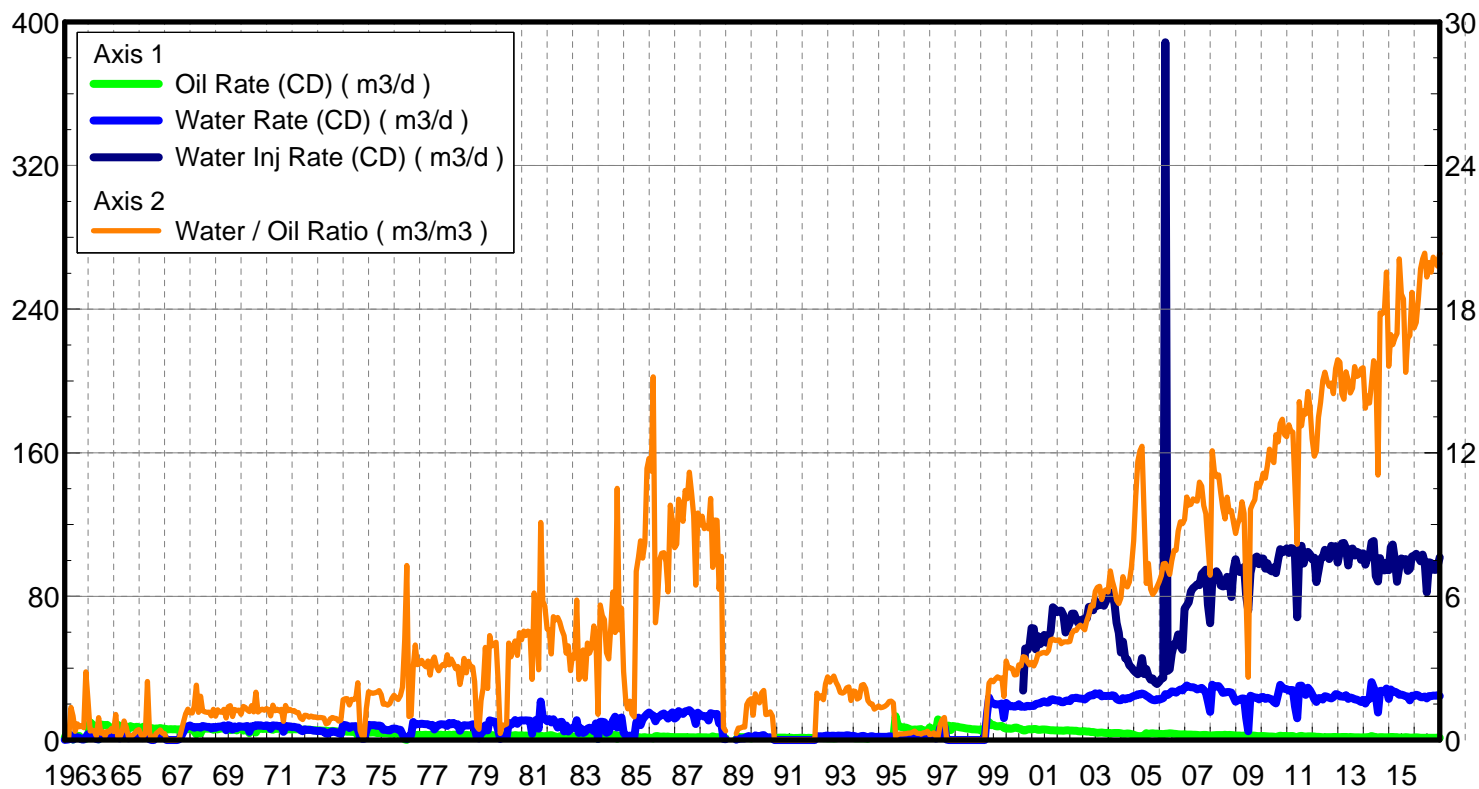
Water / Oil Ratio : 16.31 m3/m3

August 01, 2017
Operator: <Ambiguous>

Oil Rate (CD) : 1.20 m3/d

Water Rate (CD) : 29.76 m3/d

Water Inj Rate (CD) : 44.80 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 Replacement Ratio
11/30/1962					0.00	0.00	0.00		
12/31/1962					0.00	0.00	0.00		
1/31/1963	1.18	0.01	0.01		0.04	0.00	0.00	0.000	0.000
2/28/1963	3.93	0.15	0.04		0.15	0.00	0.00	0.000	0.000
3/31/1963	3.37	0.35	0.10		0.25	0.02	0.00	0.000	0.000
4/30/1963	2.01	2.73	1.36		0.31	0.10	0.00	0.000	0.000
5/31/1963	0.20	0.20	1.00		0.32	0.10	0.00	0.000	0.000
6/30/1963	2.54	0.93	0.37		0.39	0.13	0.00	0.000	0.000
7/31/1963	2.38	1.60	0.67		0.47	0.18	0.00	0.000	0.000
8/31/1963	2.15	1.19	0.55		0.53	0.22	0.00	0.000	0.000
9/30/1963	0.48	0.29	0.60		0.55	0.23	0.00	0.000	0.000
10/31/1963	0.47	0.24	0.51		0.56	0.23	0.00	0.000	0.000
11/30/1963	0.59	1.69	2.85		0.58	0.28	0.00	0.000	0.000
12/31/1963	1.88	3.20	1.70		0.64	0.38	0.00	0.000	0.000
1/31/1964	9.86	3.69	0.37		0.94	0.50	0.00	0.000	0.000
2/29/1964	8.80	3.57	0.41		1.20	0.60	0.00	0.000	0.000
3/31/1964	7.83	2.97	0.38		1.44	0.69	0.00	0.000	0.000
4/30/1964	3.13	0.51	0.16		1.54	0.71	0.00	0.000	0.000
5/31/1964	0.33	0.31	0.93		1.55	0.72	0.00	0.000	0.000
6/30/1964	8.62	2.45	0.28		1.81	0.79	0.00	0.000	0.000
7/31/1964	8.41	2.94	0.35		2.07	0.88	0.00	0.000	0.000
8/31/1964	8.10	1.30	0.16		2.32	0.92	0.00	0.000	0.000
9/30/1964	8.42	3.05	0.36		2.57	1.02	0.00	0.000	0.000
10/31/1964	7.36	2.54	0.34		2.80	1.09	0.00	0.000	0.000
11/30/1964	5.90	2.81	0.48		2.97	1.18	0.00	0.000	0.000
12/31/1964	6.81	2.38	0.35		3.19	1.25	0.00	0.000	0.000
1/31/1965	3.20	3.40	1.06		3.29	1.36	0.00	0.000	0.000
2/28/1965	8.48	1.26	0.15		3.52	1.39	0.00	0.000	0.000
3/31/1965	7.53	0.89	0.12		3.76	1.42	0.00	0.000	0.000
4/30/1965	6.06	1.98	0.33		3.94	1.48	0.00	0.000	0.000
5/31/1965	2.64	2.09	0.79		4.02	1.54	0.00	0.000	0.000
6/30/1965	7.34	3.99	0.54		4.24	1.66	0.00	0.000	0.000
7/31/1965	6.02	0.92	0.15		4.43	1.69	0.00	0.000	0.000
8/31/1965	7.69	1.10	0.14		4.67	1.73	0.00	0.000	0.000
9/30/1965	7.02	1.37	0.19		4.88	1.77	0.00	0.000	0.000
10/31/1965	7.14	1.97	0.28		5.10	1.83	0.00	0.000	0.000
11/30/1965	7.32	2.93	0.40		5.32	1.92	0.00	0.000	0.000
12/31/1965	6.96	3.01	0.43		5.53	2.01	0.00	0.000	0.000
1/31/1966	6.19	1.16	0.19		5.72	2.05	0.00	0.000	0.000
2/28/1966	7.34	1.07	0.15		5.93	2.08	0.00	0.000	0.000
3/31/1966	6.20	1.58	0.26		6.12	2.13	0.00	0.000	0.000
4/30/1966	1.28	3.13	2.45		6.16	2.22	0.00	0.000	0.000
5/31/1966	1.35	0.44	0.32		6.20	2.23	0.00	0.000	0.000
6/30/1966	6.64	0.00	0.00		6.40	2.23	0.00	0.000	0.000
7/31/1966	6.11	0.00	0.00		6.59	2.23	0.00	0.000	0.000
8/31/1966	6.40	1.72	0.27		6.79	2.29	0.00	0.000	0.000
9/30/1966	6.36	2.14	0.34		6.98	2.35	0.00	0.000	0.000
10/31/1966	6.65	2.76	0.42		7.19	2.44	0.00	0.000	0.000
11/30/1966	6.40	1.83	0.29		7.38	2.49	0.00	0.000	0.000
12/31/1966	6.34	1.69	0.27		7.57	2.54	0.00	0.000	0.000
1/31/1967	5.72	0.00	0.00		7.75	2.54	0.00	0.000	0.000
2/28/1967	5.97	0.00	0.00		7.92	2.54	0.00	0.000	0.000
3/31/1967	6.01	0.00	0.00		8.11	2.54	0.00	0.000	0.000
4/30/1967	5.92	0.00	0.00		8.28	2.54	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 Replacement Ratio
5/31/1967	6.00	0.00	0.00		8.47	2.54	0.00	0.000	0.000
6/30/1967	5.75	0.00	0.00		8.64	2.54	0.00	0.000	0.000
7/31/1967	5.94	0.41	0.07		8.83	2.56	0.00	0.000	0.000
8/31/1967	5.78	2.41	0.42		9.00	2.63	0.00	0.000	0.000
9/30/1967	6.15	4.72	0.77		9.19	2.77	0.00	0.000	0.000
10/31/1967	6.63	7.25	1.09		9.39	3.00	0.00	0.000	0.000
11/30/1967	5.94	7.63	1.29		9.57	3.23	0.00	0.000	0.000
12/31/1967	7.04	8.04	1.14		9.79	3.47	0.00	0.000	0.000
1/31/1968	6.51	7.35	1.13		9.99	3.70	0.00	0.000	0.000
2/29/1968	4.88	6.78	1.39		10.13	3.90	0.00	0.000	0.000
3/31/1968	3.15	7.21	2.29		10.23	4.12	0.00	0.000	0.000
4/30/1968	6.24	7.20	1.15		10.42	4.34	0.00	0.000	0.000
5/31/1968	3.73	6.82	1.83		10.53	4.55	0.00	0.000	0.000
6/30/1968	6.38	7.80	1.22		10.73	4.78	0.00	0.000	0.000
7/31/1968	6.45	7.56	1.17		10.93	5.02	0.00	0.000	0.000
8/31/1968	6.33	7.29	1.15		11.12	5.24	0.00	0.000	0.000
9/30/1968	6.28	7.30	1.16		11.31	5.46	0.00	0.000	0.000
10/31/1968	6.36	6.39	1.00		11.51	5.66	0.00	0.000	0.000
11/30/1968	5.67	7.26	1.28		11.68	5.88	0.00	0.000	0.000
12/31/1968	6.77	6.73	0.99		11.89	6.09	0.00	0.000	0.000
1/31/1969	5.82	7.34	1.26		12.07	6.32	0.00	0.000	0.000
2/28/1969	6.36	7.43	1.17		12.25	6.52	0.00	0.000	0.000
3/31/1969	6.42	7.43	1.16		12.44	6.75	0.00	0.000	0.000
4/30/1969	6.30	8.06	1.28		12.63	7.00	0.00	0.000	0.000
5/31/1969	5.88	5.42	0.92		12.82	7.16	0.00	0.000	0.000
6/30/1969	5.92	8.22	1.39		12.99	7.41	0.00	0.000	0.000
7/31/1969	5.46	7.85	1.44		13.16	7.65	0.00	0.000	0.000
8/31/1969	5.87	5.75	0.98		13.35	7.83	0.00	0.000	0.000
9/30/1969	5.91	7.51	1.27		13.52	8.06	0.00	0.000	0.000
10/31/1969	5.30	6.51	1.23		13.69	8.26	0.00	0.000	0.000
11/30/1969	6.19	7.73	1.25		13.87	8.49	0.00	0.000	0.000
12/31/1969	6.94	7.47	1.08		14.09	8.72	0.00	0.000	0.000
1/31/1970	5.23	7.35	1.40		14.25	8.95	0.00	0.000	0.000
2/28/1970	5.53	7.51	1.36		14.40	9.16	0.00	0.000	0.000
3/31/1970	6.18	7.76	1.26		14.60	9.40	0.00	0.000	0.000
4/30/1970	3.79	4.51	1.19		14.71	9.54	0.00	0.000	0.000
5/31/1970	5.33	7.63	1.43		14.87	9.77	0.00	0.000	0.000
6/30/1970	6.38	7.47	1.17		15.07	10.00	0.00	0.000	0.000
7/31/1970	4.12	8.21	1.99		15.19	10.25	0.00	0.000	0.000
8/31/1970	6.76	7.87	1.16		15.40	10.50	0.00	0.000	0.000
9/30/1970	6.63	8.21	1.24		15.60	10.74	0.00	0.000	0.000
10/31/1970	6.10	7.87	1.29		15.79	10.99	0.00	0.000	0.000
11/30/1970	6.22	7.71	1.24		15.98	11.22	0.00	0.000	0.000
12/31/1970	6.22	8.16	1.31		16.17	11.47	0.00	0.000	0.000
1/31/1971	6.19	7.76	1.25		16.36	11.71	0.00	0.000	0.000
2/28/1971	6.06	6.12	1.01		16.53	11.88	0.00	0.000	0.000
3/31/1971	5.63	8.20	1.46		16.71	12.14	0.00	0.000	0.000
4/30/1971	6.52	7.98	1.22		16.90	12.38	0.00	0.000	0.000
5/31/1971	6.17	7.95	1.29		17.09	12.62	0.00	0.000	0.000
6/30/1971	6.19	7.53	1.22		17.28	12.85	0.00	0.000	0.000
7/31/1971	6.15	7.89	1.28		17.47	13.09	0.00	0.000	0.000
8/31/1971	5.72	4.46	0.78		17.65	13.23	0.00	0.000	0.000
9/30/1971	5.47	7.88	1.44		17.81	13.47	0.00	0.000	0.000
10/31/1971	6.11	7.48	1.22		18.00	13.70	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	Voidage Replacement Ratio	Cum Voidage Replacement Ratio
11/30/1971	5.94	7.62	1.28		18.18	13.93	0.00	0.000	0.000
12/31/1971	5.86	7.10	1.21		18.36	14.15	0.00	0.000	0.000
1/31/1972	6.04	7.39	1.22		18.55	14.38	0.00	0.000	0.000
2/29/1972	5.94	6.83	1.15		18.72	14.58	0.00	0.000	0.000
3/31/1972	6.01	6.87	1.14		18.91	14.79	0.00	0.000	0.000
4/30/1972	5.95	5.49	0.92		19.09	14.95	0.00	0.000	0.000
5/31/1972	5.67	4.85	0.86		19.26	15.10	0.00	0.000	0.000
6/30/1972	5.75	5.92	1.03		19.43	15.28	0.00	0.000	0.000
7/31/1972	5.55	5.65	1.02		19.61	15.46	0.00	0.000	0.000
8/31/1972	5.85	5.59	0.96		19.79	15.63	0.00	0.000	0.000
9/30/1972	5.56	5.55	1.00		19.95	15.80	0.00	0.000	0.000
10/31/1972	5.46	5.18	0.95		20.12	15.96	0.00	0.000	0.000
11/30/1972	5.36	5.16	0.96		20.28	16.11	0.00	0.000	0.000
12/31/1972	5.32	4.94	0.93		20.45	16.26	0.00	0.000	0.000
1/31/1973	5.34	5.02	0.94		20.61	16.42	0.00	0.000	0.000
2/28/1973	5.20	4.84	0.93		20.76	16.56	0.00	0.000	0.000
3/31/1973	5.16	4.70	0.91		20.92	16.70	0.00	0.000	0.000
4/30/1973	5.23	3.55	0.68		21.08	16.81	0.00	0.000	0.000
5/31/1973	4.76	3.37	0.71		21.22	16.91	0.00	0.000	0.000
6/30/1973	4.94	4.36	0.88		21.37	17.04	0.00	0.000	0.000
7/31/1973	5.04	4.74	0.94		21.53	17.19	0.00	0.000	0.000
8/31/1973	4.97	4.51	0.91		21.68	17.33	0.00	0.000	0.000
9/30/1973	4.76	4.26	0.90		21.83	17.46	0.00	0.000	0.000
10/31/1973	4.72	3.69	0.78		21.97	17.57	0.00	0.000	0.000
11/30/1973	3.90	3.24	0.83		22.09	17.67	0.00	0.000	0.000
12/31/1973	5.01	8.43	1.68		22.24	17.93	0.00	0.000	0.000
1/31/1974	4.76	8.21	1.72		22.39	18.18	0.00	0.000	0.000
2/28/1974	4.60	7.96	1.73		22.52	18.41	0.00	0.000	0.000
3/31/1974	4.56	6.67	1.46		22.66	18.61	0.00	0.000	0.000
4/30/1974	4.50	7.64	1.70		22.80	18.84	0.00	0.000	0.000
5/31/1974	4.52	7.64	1.69		22.94	19.08	0.00	0.000	0.000
6/30/1974	4.43	7.69	1.74		23.07	19.31	0.00	0.000	0.000
7/31/1974	2.41	5.75	2.39		23.14	19.49	0.00	0.000	0.000
8/31/1974	4.25	1.72	0.40		23.28	19.54	0.00	0.000	0.000
9/30/1974	3.95	0.65	0.16		23.39	19.56	0.00	0.000	0.000
10/31/1974	3.87	0.64	0.17		23.51	19.58	0.00	0.000	0.000
11/30/1974	3.94	5.16	1.31		23.63	19.74	0.00	0.000	0.000
12/31/1974	4.17	8.40	2.01		23.76	20.00	0.00	0.000	0.000
1/31/1975	4.19	8.29	1.98		23.89	20.25	0.00	0.000	0.000
2/28/1975	4.26	8.29	1.95		24.01	20.49	0.00	0.000	0.000
3/31/1975	4.18	8.24	1.97		24.14	20.74	0.00	0.000	0.000
4/30/1975	3.89	7.76	1.99		24.26	20.97	0.00	0.000	0.000
5/31/1975	3.92	8.09	2.07		24.38	21.23	0.00	0.000	0.000
6/30/1975	4.08	7.73	1.89		24.50	21.46	0.00	0.000	0.000
7/31/1975	3.79	5.66	1.49		24.62	21.63	0.00	0.000	0.000
8/31/1975	3.81	5.75	1.51		24.74	21.81	0.00	0.000	0.000
9/30/1975	3.69	5.38	1.46		24.85	21.97	0.00	0.000	0.000
10/31/1975	3.46	5.28	1.52		24.96	22.14	0.00	0.000	0.000
11/30/1975	3.54	6.18	1.74		25.06	22.32	0.00	0.000	0.000
12/31/1975	3.43	6.41	1.87		25.17	22.52	0.00	0.000	0.000
1/31/1976	3.53	6.19	1.76		25.28	22.71	0.00	0.000	0.000
2/29/1976	3.43	5.80	1.69		25.38	22.88	0.00	0.000	0.000
3/31/1976	3.05	5.65	1.86		25.47	23.06	0.00	0.000	0.000
4/30/1976	1.44	3.16	2.20		25.51	23.15	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 Replacement Ratio
5/31/1976	0.30	1.24	4.18		25.52	23.19	0.00	0.000	0.000
6/30/1976	0.08	0.58	7.29		25.53	23.21	0.00	0.000	0.000
7/31/1976	2.02	1.98	0.98		25.59	23.27	0.00	0.000	0.000
8/31/1976	2.67	2.71	1.02		25.67	23.35	0.00	0.000	0.000
9/30/1976	3.31	10.07	3.04		25.77	23.65	0.00	0.000	0.000
10/31/1976	2.16	8.59	3.97		25.84	23.92	0.00	0.000	0.000
11/30/1976	2.79	8.76	3.14		25.92	24.18	0.00	0.000	0.000
12/31/1976	2.78	8.86	3.18		26.01	24.46	0.00	0.000	0.000
1/31/1977	2.72	9.05	3.33		26.09	24.74	0.00	0.000	0.000
2/28/1977	2.83	8.91	3.15		26.17	24.99	0.00	0.000	0.000
3/31/1977	2.86	8.77	3.06		26.26	25.26	0.00	0.000	0.000
4/30/1977	2.66	8.78	3.30		26.34	25.52	0.00	0.000	0.000
5/31/1977	2.95	7.98	2.71		26.43	25.77	0.00	0.000	0.000
6/30/1977	2.55	8.39	3.28		26.51	26.02	0.00	0.000	0.000
7/31/1977	1.69	5.86	3.47		26.56	26.20	0.00	0.000	0.000
8/31/1977	2.40	7.37	3.07		26.63	26.43	0.00	0.000	0.000
9/30/1977	2.90	8.40	2.89		26.72	26.68	0.00	0.000	0.000
10/31/1977	2.88	8.80	3.06		26.81	26.96	0.00	0.000	0.000
11/30/1977	2.74	8.65	3.15		26.89	27.22	0.00	0.000	0.000
12/31/1977	2.79	8.64	3.10		26.98	27.48	0.00	0.000	0.000
1/31/1978	2.19	7.80	3.56		27.05	27.73	0.00	0.000	0.000
2/28/1978	3.03	9.51	3.14		27.13	27.99	0.00	0.000	0.000
3/31/1978	2.59	8.74	3.38		27.21	28.26	0.00	0.000	0.000
4/30/1978	2.99	9.54	3.19		27.30	28.55	0.00	0.000	0.000
5/31/1978	2.84	8.44	2.98		27.39	28.81	0.00	0.000	0.000
6/30/1978	2.85	8.76	3.07		27.48	29.07	0.00	0.000	0.000
7/31/1978	2.23	5.15	2.32		27.54	29.23	0.00	0.000	0.000
8/31/1978	2.65	7.25	2.74		27.63	29.46	0.00	0.000	0.000
9/30/1978	2.42	8.24	3.41		27.70	29.71	0.00	0.000	0.000
10/31/1978	2.89	8.10	2.80		27.79	29.96	0.00	0.000	0.000
11/30/1978	2.45	8.04	3.29		27.86	30.20	0.00	0.000	0.000
12/31/1978	2.65	8.16	3.09		27.94	30.45	0.00	0.000	0.000
1/31/1979	2.88	8.78	3.04		28.03	30.72	0.00	0.000	0.000
2/28/1979	2.65	6.45	2.44		28.11	30.91	0.00	0.000	0.000
3/31/1979	2.28	1.29	0.56		28.18	30.95	0.00	0.000	0.000
4/30/1979	1.88	0.84	0.45		28.23	30.97	0.00	0.000	0.000
5/31/1979	2.42	3.99	1.65		28.31	31.09	0.00	0.000	0.000
6/30/1979	2.13	4.60	2.16		28.37	31.23	0.00	0.000	0.000
7/31/1979	2.11	8.15	3.87		28.44	31.48	0.00	0.000	0.000
8/31/1979	2.49	5.37	2.16		28.52	31.65	0.00	0.000	0.000
9/30/1979	2.50	10.90	4.36		28.59	31.98	0.00	0.000	0.000
10/31/1979	2.69	10.58	3.93		28.67	32.31	0.00	0.000	0.000
11/30/1979	2.59	10.33	3.99		28.75	32.62	0.00	0.000	0.000
12/31/1979	2.43	9.93	4.08		28.83	32.92	0.00	0.000	0.000
1/31/1980	2.29	5.52	2.41		28.90	33.09	0.00	0.000	0.000
2/29/1980	2.31	0.63	0.27		28.97	33.11	0.00	0.000	0.000
3/31/1980	2.45	1.51	0.61		29.04	33.16	0.00	0.000	0.000
4/30/1980	2.50	1.57	0.63		29.12	33.21	0.00	0.000	0.000
5/31/1980	2.32	1.55	0.67		29.19	33.25	0.00	0.000	0.000
6/30/1980	2.35	9.52	4.05		29.26	33.54	0.00	0.000	0.000
7/31/1980	2.42	8.40	3.47		29.33	33.80	0.00	0.000	0.000
8/31/1980	2.41	9.34	3.88		29.41	34.09	0.00	0.000	0.000
9/30/1980	2.68	11.10	4.14		29.49	34.42	0.00	0.000	0.000
10/31/1980	2.54	8.96	3.54		29.57	34.70	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	Voidage Replacement Ratio	Cum Voidage Replacement Ratio
11/30/1980	2.41	10.79	4.48		29.64	35.02	0.00	0.000	0.000
12/31/1980	2.61	10.93	4.18		29.72	35.36	0.00	0.000	0.000
1/31/1981	2.39	10.86	4.55		29.80	35.70	0.00	0.000	0.000
2/28/1981	2.50	10.91	4.37		29.87	36.01	0.00	0.000	0.000
3/31/1981	2.38	10.83	4.55		29.94	36.34	0.00	0.000	0.000
4/30/1981	2.38	10.73	4.50		30.01	36.66	0.00	0.000	0.000
5/31/1981	1.32	3.34	2.53		30.05	36.77	0.00	0.000	0.000
6/30/1981	1.66	10.17	6.14		30.10	37.07	0.00	0.000	0.000
7/31/1981	2.36	11.31	4.80		30.17	37.42	0.00	0.000	0.000
8/31/1981	2.15	6.30	2.93		30.24	37.62	0.00	0.000	0.000
9/30/1981	2.36	21.44	9.09		30.31	38.26	0.00	0.000	0.000
10/31/1981	2.10	12.15	5.80		30.38	38.64	0.00	0.000	0.000
11/30/1981	2.12	11.86	5.59		30.44	38.99	0.00	0.000	0.000
12/31/1981	2.26	10.47	4.64		30.51	39.32	0.00	0.000	0.000
1/31/1982	2.54	11.68	4.60		30.59	39.68	0.00	0.000	0.000
2/28/1982	2.72	9.77	3.59		30.67	39.95	0.00	0.000	0.000
3/31/1982	2.24	11.55	5.15		30.73	40.31	0.00	0.000	0.000
4/30/1982	1.91	9.59	5.02		30.79	40.60	0.00	0.000	0.000
5/31/1982	1.35	6.88	5.12		30.83	40.81	0.00	0.000	0.000
6/30/1982	2.02	9.94	4.92		30.89	41.11	0.00	0.000	0.000
7/31/1982	2.20	10.11	4.60		30.96	41.42	0.00	0.000	0.000
8/31/1982	1.09	4.74	4.36		31.00	41.57	0.00	0.000	0.000
9/30/1982	2.24	8.12	3.63		31.06	41.81	0.00	0.000	0.000
10/31/1982	1.19	4.68	3.93		31.10	41.96	0.00	0.000	0.000
11/30/1982	2.18	6.33	2.90		31.17	42.15	0.00	0.000	0.000
12/31/1982	1.91	6.77	3.54		31.23	42.36	0.00	0.000	0.000
1/31/1983	2.02	6.92	3.43		31.29	42.57	0.00	0.000	0.000
2/28/1983	1.88	10.99	5.85		31.34	42.88	0.00	0.000	0.000
3/31/1983	1.54	3.88	2.52		31.39	43.00	0.00	0.000	0.000
4/30/1983	2.34	6.47	2.76		31.46	43.20	0.00	0.000	0.000
5/31/1983	1.02	3.85	3.76		31.49	43.32	0.00	0.000	0.000
6/30/1983	1.77	4.52	2.55		31.54	43.45	0.00	0.000	0.000
7/31/1983	1.55	6.26	4.05		31.59	43.65	0.00	0.000	0.000
8/31/1983	1.87	6.79	3.63		31.65	43.86	0.00	0.000	0.000
9/30/1983	1.61	6.23	3.86		31.70	44.04	0.00	0.000	0.000
10/31/1983	1.02	4.84	4.76		31.73	44.19	0.00	0.000	0.000
11/30/1983	2.17	9.22	4.24		31.79	44.47	0.00	0.000	0.000
12/31/1983	0.57	0.61	1.07		31.81	44.49	0.00	0.000	0.000
1/31/1984	1.79	10.10	5.64		31.87	44.80	0.00	0.000	0.000
2/29/1984	1.94	10.09	5.19		31.92	45.09	0.00	0.000	0.000
3/31/1984	1.96	9.86	5.03		31.98	45.40	0.00	0.000	0.000
4/30/1984	1.09	3.99	3.65		32.02	45.52	0.00	0.000	0.000
5/31/1984	1.36	4.61	3.39		32.06	45.66	0.00	0.000	0.000
6/30/1984	1.65	7.75	4.71		32.11	45.89	0.00	0.000	0.000
7/31/1984	1.74	10.74	6.18		32.16	46.23	0.00	0.000	0.000
8/31/1984	2.89	12.98	4.49		32.25	46.63	0.00	0.000	0.000
9/30/1984	0.66	6.94	10.52		32.27	46.84	0.00	0.000	0.000
10/31/1984	2.53	11.66	4.61		32.35	47.20	0.00	0.000	0.000
11/30/1984	2.28	12.56	5.51		32.42	47.58	0.00	0.000	0.000
12/31/1984	1.38	3.95	2.86		32.46	47.70	0.00	0.000	0.000
1/31/1985	1.55	2.48	1.60		32.51	47.78	0.00	0.000	0.000
2/28/1985	1.49	1.94	1.30		32.55	47.83	0.00	0.000	0.000
3/31/1985	1.53	2.48	1.62		32.60	47.91	0.00	0.000	0.000
4/30/1985	1.30	1.42	1.09		32.64	47.95	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 Replacement Ratio
5/31/1985	1.20	1.16	0.97		32.68	47.99	0.00	0.000	0.000
6/30/1985	1.35	9.48	7.04		32.72	48.27	0.00	0.000	0.000
7/31/1985	1.62	12.40	7.64		32.77	48.65	0.00	0.000	0.000
8/31/1985	0.99	8.27	8.32		32.80	48.91	0.00	0.000	0.000
9/30/1985	1.50	11.42	7.60		32.84	49.25	0.00	0.000	0.000
10/31/1985	1.58	13.05	8.24		32.89	49.66	0.00	0.000	0.000
11/30/1985	1.27	14.37	11.34		32.93	50.09	0.00	0.000	0.000
12/31/1985	1.30	15.33	11.76		32.97	50.56	0.00	0.000	0.000
1/31/1986	1.25	14.10	11.24		33.01	51.00	0.00	0.000	0.000
2/28/1986	0.90	13.60	15.17		33.03	51.38	0.00	0.000	0.000
3/31/1986	2.12	10.39	4.90		33.10	51.70	0.00	0.000	0.000
4/30/1986	2.19	12.72	5.80		33.16	52.09	0.00	0.000	0.000
5/31/1986	1.75	13.16	7.53		33.22	52.49	0.00	0.000	0.000
6/30/1986	1.83	14.25	7.80		33.27	52.92	0.00	0.000	0.000
7/31/1986	1.88	14.74	7.82		33.33	53.38	0.00	0.000	0.000
8/31/1986	1.79	13.30	7.44		33.39	53.79	0.00	0.000	0.000
9/30/1986	1.93	11.92	6.19		33.45	54.15	0.00	0.000	0.000
10/31/1986	1.45	14.24	9.81		33.49	54.59	0.00	0.000	0.000
11/30/1986	1.68	15.41	9.16		33.54	55.05	0.00	0.000	0.000
12/31/1986	1.48	11.92	8.03		33.59	55.42	0.00	0.000	0.000
1/31/1987	1.56	12.80	8.18		33.64	55.82	0.00	0.000	0.000
2/28/1987	1.60	16.09	10.06		33.68	56.27	0.00	0.000	0.000
3/31/1987	1.57	15.08	9.60		33.73	56.74	0.00	0.000	0.000
4/30/1987	1.59	14.50	9.14		33.78	57.17	0.00	0.000	0.000
5/31/1987	1.53	15.90	10.42		33.82	57.66	0.00	0.000	0.000
6/30/1987	1.61	16.19	10.08		33.87	58.15	0.00	0.000	0.000
7/31/1987	1.49	16.67	11.19		33.92	58.67	0.00	0.000	0.000
8/31/1987	1.50	15.44	10.31		33.96	59.15	0.00	0.000	0.000
9/30/1987	1.43	13.44	9.38		34.01	59.55	0.00	0.000	0.000
10/31/1987	1.37	8.89	6.47		34.05	59.82	0.00	0.000	0.000
11/30/1987	1.60	15.21	9.49		34.10	60.28	0.00	0.000	0.000
12/31/1987	1.56	14.01	8.98		34.15	60.71	0.00	0.000	0.000
1/31/1988	1.44	13.48	9.35		34.19	61.13	0.00	0.000	0.000
2/29/1988	1.47	12.94	8.83		34.23	61.51	0.00	0.000	0.000
3/31/1988	1.48	13.21	8.94		34.28	61.92	0.00	0.000	0.000
4/30/1988	1.23	10.82	8.82		34.32	62.24	0.00	0.000	0.000
5/31/1988	1.48	14.91	10.09		34.36	62.70	0.00	0.000	0.000
6/30/1988	2.02	14.56	7.21		34.42	63.14	0.00	0.000	0.000
7/31/1988	1.56	14.37	9.19		34.47	63.59	0.00	0.000	0.000
8/31/1988	1.57	14.45	9.18		34.52	64.03	0.00	0.000	0.000
9/30/1988	1.47	9.26	6.30		34.56	64.31	0.00	0.000	0.000
10/31/1988	1.19	9.11	7.67		34.60	64.59	0.00	0.000	0.000
11/30/1988	1.13	0.57	0.51		34.63	64.61	0.00	0.000	0.000
12/31/1988	0.98	0.37	0.38		34.67	64.62	0.00	0.000	0.000
1/31/1989					34.67	64.62	0.00		0.000
2/28/1989					34.67	64.62	0.00		0.000
3/31/1989					34.67	64.62	0.00		0.000
4/30/1989					34.67	64.62	0.00		0.000
5/31/1989	0.48	0.13	0.26		34.68	64.63	0.00	0.000	0.000
6/30/1989	1.72	0.86	0.50		34.73	64.65	0.00	0.000	0.000
7/31/1989	1.53	0.76	0.50		34.78	64.68	0.00	0.000	0.000
8/31/1989	1.53	0.83	0.54		34.83	64.70	0.00	0.000	0.000
9/30/1989	1.53	0.82	0.54		34.87	64.73	0.00	0.000	0.000
10/31/1989	1.24	1.83	1.48		34.91	64.78	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 Replacement Ratio
11/30/1989	1.34	2.21	1.65		34.95	64.85	0.00	0.000	0.000
12/31/1989	0.89	1.53	1.72		34.98	64.90	0.00	0.000	0.000
1/31/1990	1.33	1.37	1.03		35.02	64.94	0.00	0.000	0.000
2/28/1990	1.32	2.55	1.93		35.06	65.01	0.00	0.000	0.000
3/31/1990	1.27	2.15	1.69		35.10	65.08	0.00	0.000	0.000
4/30/1990	1.19	1.83	1.54		35.13	65.13	0.00	0.000	0.000
5/31/1990	1.30	2.56	1.97		35.17	65.21	0.00	0.000	0.000
6/30/1990	1.31	2.71	2.07		35.21	65.29	0.00	0.000	0.000
7/31/1990	1.32	1.40	1.06		35.25	65.34	0.00	0.000	0.000
8/31/1990	1.28	1.39	1.08		35.29	65.38	0.00	0.000	0.000
9/30/1990	1.25	1.47	1.17		35.33	65.42	0.00	0.000	0.000
10/31/1990	0.98	0.98	1.00		35.36	65.45	0.00	0.000	0.000
11/30/1990	1.15	0.00	0.00		35.39	65.45	0.00	0.000	0.000
12/31/1990	1.16	0.00	0.00		35.43	65.45	0.00	0.000	0.000
1/31/1991	1.34	0.00	0.00		35.47	65.45	0.00	0.000	0.000
2/28/1991	1.33	0.00	0.00		35.51	65.45	0.00	0.000	0.000
3/31/1991	1.32	0.00	0.00		35.55	65.45	0.00	0.000	0.000
4/30/1991	1.26	0.00	0.00		35.59	65.45	0.00	0.000	0.000
5/31/1991	1.08	0.00	0.00		35.62	65.45	0.00	0.000	0.000
6/30/1991	1.31	0.00	0.00		35.66	65.45	0.00	0.000	0.000
7/31/1991	1.25	0.00	0.00		35.70	65.45	0.00	0.000	0.000
8/31/1991	0.99	0.00	0.00		35.73	65.45	0.00	0.000	0.000
9/30/1991	1.12	0.00	0.00		35.76	65.45	0.00	0.000	0.000
10/31/1991	1.15	0.00	0.00		35.80	65.45	0.00	0.000	0.000
11/30/1991	1.20	0.00	0.00		35.84	65.45	0.00	0.000	0.000
12/31/1991	1.20	0.00	0.00		35.87	65.45	0.00	0.000	0.000
1/31/1992	1.24	0.00	0.00		35.91	65.45	0.00	0.000	0.000
2/29/1992	1.05	0.00	0.00		35.94	65.45	0.00	0.000	0.000
3/31/1992	1.24	0.00	0.00		35.98	65.45	0.00	0.000	0.000
4/30/1992	1.08	0.00	0.00		36.01	65.45	0.00	0.000	0.000
5/31/1992	1.16	0.00	0.00		36.05	65.45	0.00	0.000	0.000
6/30/1992	1.19	0.00	0.00		36.08	65.45	0.00	0.000	0.000
7/31/1992	1.11	2.16	1.95		36.12	65.52	0.00	0.000	0.000
8/31/1992	1.11	1.94	1.75		36.15	65.58	0.00	0.000	0.000
9/30/1992	1.12	2.07	1.85		36.19	65.64	0.00	0.000	0.000
10/31/1992	0.99	1.67	1.69		36.22	65.69	0.00	0.000	0.000
11/30/1992	1.02	2.39	2.34		36.25	65.77	0.00	0.000	0.000
12/31/1992	0.92	2.42	2.64		36.28	65.84	0.00	0.000	0.000
1/31/1993	0.92	2.22	2.42		36.30	65.91	0.00	0.000	0.000
2/28/1993	0.93	2.37	2.54		36.33	65.98	0.00	0.000	0.000
3/31/1993	0.89	2.38	2.67		36.36	66.05	0.00	0.000	0.000
4/30/1993	0.91	2.19	2.41		36.39	66.12	0.00	0.000	0.000
5/31/1993	1.11	2.49	2.24		36.42	66.19	0.00	0.000	0.000
6/30/1993	1.21	2.41	1.99		36.46	66.27	0.00	0.000	0.000
7/31/1993	1.22	2.38	1.96		36.49	66.34	0.00	0.000	0.000
8/31/1993	1.14	2.28	2.01		36.53	66.41	0.00	0.000	0.000
9/30/1993	1.21	2.63	2.17		36.57	66.49	0.00	0.000	0.000
10/31/1993	1.13	2.51	2.22		36.60	66.57	0.00	0.000	0.000
11/30/1993	1.26	2.07	1.65		36.64	66.63	0.00	0.000	0.000
12/31/1993	1.14	2.34	2.05		36.67	66.70	0.00	0.000	0.000
1/31/1994	0.98	2.00	2.03		36.70	66.76	0.00	0.000	0.000
2/28/1994	0.97	1.67	1.71		36.73	66.81	0.00	0.000	0.000
3/31/1994	0.96	1.71	1.77		36.76	66.86	0.00	0.000	0.000
4/30/1994	0.96	2.19	2.28		36.79	66.93	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 Replacement Ratio
5/31/1994	0.96	2.24	2.32		36.82	67.00	0.00	0.000	0.000
6/30/1994	0.83	1.79	2.15		36.85	67.05	0.00	0.000	0.000
7/31/1994	0.64	1.04	1.64		36.87	67.08	0.00	0.000	0.000
8/31/1994	1.35	2.05	1.51		36.91	67.15	0.00	0.000	0.000
9/30/1994	1.40	2.11	1.50		36.95	67.21	0.00	0.000	0.000
10/31/1994	1.39	1.78	1.29		36.99	67.27	0.00	0.000	0.000
11/30/1994	1.21	1.63	1.35		37.03	67.32	0.00	0.000	0.000
12/31/1994	1.27	1.80	1.42		37.07	67.37	0.00	0.000	0.000
1/31/1995	1.28	1.72	1.35		37.11	67.42	0.00	0.000	0.000
2/28/1995	1.25	1.71	1.37		37.14	67.47	0.00	0.000	0.000
3/31/1995	1.22	1.71	1.40		37.18	67.53	0.00	0.000	0.000
4/30/1995	1.21	1.78	1.48		37.22	67.58	0.00	0.000	0.000
5/31/1995	1.24	2.00	1.61		37.26	67.64	0.00	0.000	0.000
6/30/1995	1.21	1.97	1.62		37.29	67.70	0.00	0.000	0.000
7/31/1995	1.14	1.75	1.54		37.33	67.75	0.00	0.000	0.000
8/31/1995	13.24	1.94	0.15		37.74	67.81	0.00	0.000	0.000
9/30/1995	8.37	1.91	0.23		37.99	67.87	0.00	0.000	0.000
10/31/1995	7.45	1.89	0.25		38.22	67.93	0.00	0.000	0.000
11/30/1995	7.07	1.80	0.25		38.43	67.98	0.00	0.000	0.000
12/31/1995	6.99	1.82	0.26		38.65	68.04	0.00	0.000	0.000
1/31/1996	6.82	1.83	0.27		38.86	68.10	0.00	0.000	0.000
2/29/1996	6.42	1.84	0.29		39.05	68.15	0.00	0.000	0.000
3/31/1996	5.86	1.68	0.29		39.23	68.20	0.00	0.000	0.000
4/30/1996	5.57	1.80	0.32		39.39	68.26	0.00	0.000	0.000
5/31/1996	5.88	2.19	0.37		39.58	68.32	0.00	0.000	0.000
6/30/1996	5.76	1.60	0.28		39.75	68.37	0.00	0.000	0.000
7/31/1996	5.92	1.60	0.27		39.93	68.42	0.00	0.000	0.000
8/31/1996	5.97	1.50	0.25		40.12	68.47	0.00	0.000	0.000
9/30/1996	5.08	1.53	0.30		40.27	68.51	0.00	0.000	0.000
10/31/1996	5.35	1.58	0.30		40.44	68.56	0.00	0.000	0.000
11/30/1996	4.10	1.51	0.37		40.56	68.61	0.00	0.000	0.000
12/31/1996	6.99	1.55	0.22		40.78	68.66	0.00	0.000	0.000
1/31/1997	6.20	1.52	0.24		40.97	68.70	0.00	0.000	0.000
2/28/1997	5.20	1.54	0.30		41.11	68.75	0.00	0.000	0.000
3/31/1997	4.84	0.75	0.15		41.26	68.77	0.00	0.000	0.000
4/30/1997	11.47	1.46	0.13		41.61	68.81	0.00	0.000	0.000
5/31/1997	10.30	6.74	0.65		41.93	69.02	0.00	0.000	0.000
6/30/1997	8.60	7.41	0.86		42.18	69.24	0.00	0.000	0.000
7/31/1997	8.02	7.54	0.94		42.43	69.48	0.00	0.000	0.000
8/31/1997	7.80	0.24	0.03		42.68	69.49	0.00	0.000	0.000
9/30/1997	7.96	0.00	0.00		42.91	69.49	0.00	0.000	0.000
10/31/1997	5.52	0.00	0.00		43.09	69.49	0.00	0.000	0.000
11/30/1997	7.77	0.00	0.00		43.32	69.49	0.00	0.000	0.000
12/31/1997	7.37	0.00	0.00		43.55	69.49	0.00	0.000	0.000
1/31/1998	7.41	0.00	0.00		43.78	69.49	0.00	0.000	0.000
2/28/1998	7.08	0.00	0.00		43.97	69.49	0.00	0.000	0.000
3/31/1998	6.93	0.00	0.00		44.19	69.49	0.00	0.000	0.000
4/30/1998	6.78	0.00	0.00		44.39	69.49	0.00	0.000	0.000
5/31/1998	6.46	0.00	0.00		44.59	69.49	0.00	0.000	0.000
6/30/1998	6.31	0.00	0.00		44.78	69.49	0.00	0.000	0.000
7/31/1998	6.19	0.00	0.00		44.97	69.49	0.00	0.000	0.000
8/31/1998	5.96	0.00	0.00		45.16	69.49	0.00	0.000	0.000
9/30/1998	5.90	0.00	0.00		45.34	69.49	0.00	0.000	0.000
10/31/1998	5.81	0.00	0.00		45.52	69.49	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 Replacement Ratio
11/30/1998	5.77	0.00	0.00		45.69	69.49	0.00	0.000	0.000
12/31/1998	5.84	0.00	0.00		45.87	69.49	0.00	0.000	0.000
1/31/1999	4.63	0.00	0.00		46.01	69.49	0.00	0.000	0.000
2/28/1999	5.79	0.00	0.00		46.18	69.49	0.00	0.000	0.000
3/31/1999	10.21	14.25	1.40		46.49	69.93	0.00	0.000	0.000
4/30/1999	9.95	23.63	2.37		46.79	70.64	0.00	0.000	0.000
5/31/1999	8.30	20.74	2.50		47.05	71.28	0.00	0.000	0.000
6/30/1999	8.40	20.42	2.43		47.30	71.89	0.00	0.000	0.000
7/31/1999	7.73	19.72	2.55		47.54	72.50	0.00	0.000	0.000
8/31/1999	7.51	19.80	2.64		47.77	73.12	0.00	0.000	0.000
9/30/1999	7.75	19.93	2.57		48.00	73.72	0.00	0.000	0.000
10/31/1999	7.81	20.26	2.59		48.25	74.34	0.00	0.000	0.000
11/30/1999	6.73	12.21	1.81		48.45	74.71	0.00	0.000	0.000
12/31/1999	6.26	20.67	3.30		48.64	75.35	0.00	0.000	0.000
1/31/2000	6.52	19.69	3.02		48.84	75.96	0.00	0.000	0.000
2/29/2000	6.23	18.77	3.01		49.03	76.50	0.00	0.000	0.000
3/31/2000	6.35	18.90	2.98		49.22	77.09	0.00	0.000	0.000
4/30/2000	6.80	18.50	2.72		49.43	77.65	0.00	0.000	0.000
5/31/2000	6.89	18.82	2.73		49.64	78.23	0.00	0.000	0.000
6/30/2000	6.35	19.96	3.14		49.83	78.83	0.00	0.000	0.000
7/31/2000	5.98	18.54	3.10		50.02	79.40	0.00	0.000	0.000
8/31/2000	5.34	18.58	3.48	27.52	50.18	79.98	0.85	1.133	0.006
9/30/2000	5.33	18.41	3.45	50.93	50.34	80.53	2.38	2.112	0.018
10/31/2000	5.83	19.02	3.26	50.10	50.52	81.12	3.93	1.984	0.029
11/30/2000	5.99	18.78	3.14	52.40	50.70	81.68	5.51	2.081	0.041
12/31/2000	5.82	18.91	3.25	62.39	50.88	82.27	7.44	2.482	0.054
1/31/2001	6.11	18.90	3.09	62.06	51.07	82.86	9.36	2.439	0.068
2/28/2001	6.13	20.03	3.27	50.50	51.24	83.42	10.78	1.899	0.078
3/31/2001	5.67	20.30	3.58	57.84	51.42	84.05	12.57	2.193	0.090
4/30/2001	5.67	20.39	3.60	53.33	51.59	84.66	14.17	2.017	0.101
5/31/2001	5.81	21.14	3.64	54.68	51.77	85.31	15.87	1.999	0.113
6/30/2001	5.88	21.52	3.66	58.50	51.95	85.96	17.62	2.103	0.125
7/31/2001	5.75	20.80	3.62	54.13	52.12	86.60	19.30	2.009	0.136
8/31/2001	5.60	20.94	3.74	56.90	52.30	87.25	21.06	2.113	0.147
9/30/2001	5.37	22.41	4.18	60.50	52.46	87.93	22.88	2.150	0.159
10/31/2001	5.37	22.66	4.22	73.90	52.62	88.63	25.17	2.602	0.174
11/30/2001	5.31	22.05	4.15	72.83	52.78	89.29	27.35	2.627	0.188
12/31/2001	5.30	22.10	4.17	71.19	52.95	89.97	29.56	2.563	0.202
1/31/2002	5.25	21.96	4.18	71.97	53.11	90.66	31.79	2.609	0.216
2/28/2002	5.25	21.09	4.02	72.11	53.26	91.25	33.81	2.700	0.228
3/31/2002	5.13	21.01	4.10	69.48	53.42	91.90	35.97	2.622	0.241
4/30/2002	5.32	21.83	4.10	59.83	53.58	92.55	37.76	2.174	0.252
5/31/2002	5.39	22.09	4.10	62.52	53.74	93.24	39.70	2.244	0.263
6/30/2002	5.26	21.62	4.11	65.27	53.90	93.89	41.66	2.396	0.275
7/31/2002	5.23	23.30	4.46	70.39	54.06	94.61	43.84	2.437	0.288
8/31/2002	5.09	23.30	4.57	70.42	54.22	95.33	46.02	2.450	0.300
9/30/2002	5.15	23.59	4.58	67.23	54.38	96.04	48.04	2.310	0.312
10/31/2002	4.91	23.20	4.73	65.00	54.53	96.76	50.05	2.285	0.323
11/30/2002	4.80	23.04	4.80	66.43	54.67	97.45	52.05	2.358	0.334
12/31/2002	4.89	23.00	4.71	67.13	54.82	98.16	54.13	2.378	0.345
1/31/2003	4.89	22.52	4.60	67.61	54.98	98.86	56.22	2.436	0.357
2/28/2003	4.72	23.52	4.98	67.68	55.11	99.52	58.12	2.369	0.367
3/31/2003	4.68	24.51	5.24	74.13	55.25	100.28	60.42	2.511	0.379
4/30/2003	4.45	24.96	5.61	74.23	55.39	101.03	62.64	2.498	0.391

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 Replacement Ratio
5/31/2003	4.44	24.83	5.60	72.23	55.52	101.80	64.88	2.442	0.403
6/30/2003	4.18	25.99	6.21	77.70	55.65	102.58	67.21	2.550	0.415
7/31/2003	3.99	25.42	6.38	74.77	55.77	103.36	69.53	2.519	0.427
8/31/2003	4.05	25.98	6.42	75.68	55.90	104.17	71.88	2.497	0.438
9/30/2003	4.14	24.29	5.87	75.53	56.02	104.90	74.14	2.631	0.450
10/31/2003	3.95	24.57	6.21	74.77	56.15	105.66	76.46	2.597	0.461
11/30/2003	3.90	24.44	6.27	77.30	56.26	106.39	78.78	2.702	0.473
12/31/2003	3.97	24.55	6.18	81.23	56.39	107.15	81.30	2.820	0.486
1/31/2004	3.47	24.51	7.07	82.23	56.49	107.91	83.85	2.914	0.498
2/29/2004	3.75	24.94	6.65	81.55	56.60	108.64	86.21	2.817	0.510
3/31/2004	3.88	24.53	6.32	76.03	56.72	109.40	88.57	2.651	0.521
4/30/2004	3.92	22.89	5.84	65.30	56.84	110.08	90.53	2.412	0.530
5/31/2004	3.89	22.16	5.70	59.68	56.96	110.77	92.38	2.267	0.538
6/30/2004	3.74	22.19	5.93	48.70	57.07	111.44	93.84	1.860	0.544
7/31/2004	3.42	23.34	6.82	54.74	57.18	112.16	95.54	2.028	0.551
8/31/2004	3.48	22.59	6.49	45.55	57.29	112.86	96.95	1.731	0.557
9/30/2004	3.64	23.31	6.40	44.87	57.40	113.56	98.29	1.649	0.562
10/31/2004	3.51	23.14	6.60	41.55	57.50	114.28	99.58	1.545	0.567
11/30/2004	3.30	23.85	7.22	40.47	57.60	114.99	100.80	1.478	0.571
12/31/2004	2.94	24.45	8.32	38.77	57.69	115.75	102.00	1.405	0.575
1/31/2005	2.42	24.70	10.20	37.55	57.77	116.52	103.16	1.376	0.579
2/28/2005	2.19	25.47	11.64	36.57	57.83	117.23	104.19	1.315	0.582
3/31/2005	2.09	25.26	12.07	39.42	57.90	118.01	105.41	1.434	0.586
4/30/2005	2.11	25.93	12.27	45.60	57.96	118.79	106.78	1.617	0.591
5/31/2005	2.74	25.42	9.28	36.71	58.04	119.58	107.91	1.295	0.594
6/30/2005	3.77	24.63	6.54	39.53	58.16	120.32	109.10	1.379	0.598
7/31/2005	3.24	23.90	7.38	35.84	58.26	121.06	110.21	1.310	0.601
8/31/2005	3.65	22.96	6.30	33.55	58.37	121.77	111.25	1.249	0.604
9/30/2005	3.67	22.34	6.08	34.27	58.48	122.44	112.28	1.304	0.607
10/31/2005	3.55	22.04	6.21	32.03	58.59	123.12	113.27	1.240	0.610
11/30/2005	3.56	22.77	6.40	31.20	58.70	123.81	114.21	1.174	0.612
12/31/2005	3.39	22.40	6.60	32.39	58.80	124.50	115.21	1.244	0.615
1/31/2006	3.33	22.90	6.87	34.23	58.91	125.21	116.27	1.293	0.618
2/28/2006	3.17	23.33	7.36	34.57	58.99	125.86	117.24	1.294	0.620
3/31/2006	3.47	25.57	7.38	388.71	59.10	126.66	129.29	13.277	0.681
4/30/2006	3.50	24.99	7.14	38.50	59.21	127.41	130.45	1.340	0.684
5/31/2006	3.74	25.86	6.92	39.35	59.32	128.21	131.67	1.318	0.687
6/30/2006	3.61	27.02	7.48	48.13	59.43	129.02	133.11	1.559	0.691
7/31/2006	3.40	26.89	7.92	53.23	59.54	129.85	134.76	1.744	0.696
8/31/2006	3.32	26.32	7.92	53.94	59.64	130.67	136.43	1.805	0.702
9/30/2006	3.13	27.36	8.73	58.77	59.73	131.49	138.19	1.914	0.707
10/31/2006	3.08	28.09	9.11	52.26	59.83	132.36	139.82	1.665	0.712
11/30/2006	3.06	27.61	9.04	50.20	59.92	133.19	141.32	1.626	0.716
12/31/2006	3.16	29.14	9.21	73.13	60.02	134.09	143.59	2.248	0.724
1/31/2007	2.99	30.34	10.15	75.00	60.11	135.03	145.91	2.236	0.732
2/28/2007	3.02	29.64	9.82	76.68	60.20	135.86	148.06	2.333	0.739
3/31/2007	2.99	29.40	9.85	82.81	60.29	136.77	150.63	2.541	0.748
4/30/2007	2.92	29.36	10.07	84.57	60.38	137.65	153.16	2.603	0.757
5/31/2007	2.89	28.95	10.01	85.52	60.47	138.55	155.82	2.669	0.767
6/30/2007	2.82	28.14	9.98	86.67	60.55	139.40	158.41	2.782	0.776
7/31/2007	2.65	28.56	10.77	86.26	60.63	140.28	161.09	2.747	0.785
8/31/2007	2.74	29.01	10.60	92.42	60.72	141.18	163.95	2.894	0.795
9/30/2007	2.85	27.90	9.79	93.67	60.80	142.02	166.76	3.027	0.805
10/31/2007	2.81	26.53	9.45	94.87	60.89	142.84	169.71	3.212	0.816

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 Replacement Ratio
11/30/2007	2.61	21.42	8.22	75.37	60.97	143.48	171.97	3.114	0.824
12/31/2007	2.27	15.61	6.88	65.06	61.04	143.97	173.98	3.607	0.831
1/31/2008	2.55	30.82	12.09	88.03	61.12	144.92	176.71	2.624	0.840
2/29/2008	2.62	29.48	11.23	89.41	61.19	145.78	179.31	2.769	0.849
3/31/2008	2.73	30.00	11.00	94.00	61.28	146.71	182.22	2.856	0.859
4/30/2008	2.71	29.97	11.07	92.00	61.36	147.61	184.98	2.800	0.868
5/31/2008	2.75	28.48	10.34	86.03	61.44	148.49	187.65	2.738	0.876
6/30/2008	2.71	26.29	9.69	85.50	61.53	149.28	190.21	2.930	0.884
7/31/2008	2.86	26.45	9.24	85.77	61.61	150.10	192.87	2.907	0.893
8/31/2008	2.63	26.69	10.15	90.90	61.70	150.92	195.69	3.081	0.902
9/30/2008	2.80	26.70	9.54	90.33	61.78	151.73	198.40	3.042	0.911
10/31/2008	2.75	26.37	9.58	79.68	61.87	152.54	200.87	2.718	0.918
11/30/2008	2.63	23.94	9.08	94.87	61.94	153.26	203.71	3.546	0.928
12/31/2008	2.48	21.35	8.63	100.65	62.02	153.92	206.83	4.193	0.939
1/31/2009	2.44	22.06	9.05	94.90	62.10	154.61	209.78	3.847	0.949
2/28/2009	2.44	22.54	9.22	93.57	62.17	155.24	212.40	3.719	0.958
3/31/2009	2.32	23.11	9.95	93.58	62.24	155.95	215.30	3.657	0.968
4/30/2009	2.44	23.06	9.47	96.40	62.31	156.65	218.19	3.756	0.977
5/31/2009	2.14	12.45	5.82	80.26	62.38	157.03	220.68	5.447	0.986
6/30/2009	1.87	4.90	2.62	72.10	62.43	157.18	222.84	10.452	0.995
7/31/2009	2.56	24.66	9.65	93.00	62.51	157.94	225.72	3.395	1.004
8/31/2009	2.45	24.15	9.87	99.03	62.59	158.69	228.79	3.699	1.014
9/30/2009	2.35	23.56	10.04	101.43	62.66	159.40	231.84	3.890	1.024
10/31/2009	2.20	23.60	10.73	102.19	62.73	160.13	235.00	3.938	1.034
11/30/2009	2.14	22.58	10.57	97.90	62.79	160.81	237.94	3.937	1.044
12/31/2009	2.21	23.88	10.79	101.10	62.86	161.55	241.07	3.852	1.054
1/31/2010	2.15	23.94	11.15	101.00	62.93	162.29	244.21	3.850	1.064
2/28/2010	2.09	22.89	10.94	95.39	62.98	162.93	246.88	3.796	1.072
3/31/2010	2.04	23.45	11.48	98.48	63.05	163.66	249.93	3.841	1.082
4/30/2010	1.90	23.07	12.15	94.80	63.10	164.35	252.77	3.777	1.090
5/31/2010	1.93	22.64	11.75	93.94	63.16	165.05	255.69	3.804	1.099
6/30/2010	1.83	21.19	11.59	96.17	63.22	165.69	258.57	4.155	1.108
7/31/2010	1.60	20.36	12.75	92.94	63.27	166.32	261.45	4.212	1.117
8/31/2010	2.06	25.61	12.45	100.48	63.33	167.11	264.57	3.613	1.127
9/30/2010	2.33	30.73	13.22	106.27	63.40	168.04	267.76	3.199	1.135
10/31/2010	2.18	29.27	13.40	104.52	63.47	168.94	271.00	3.307	1.144
11/30/2010	2.23	28.45	12.75	105.03	63.54	169.80	274.15	3.406	1.153
12/31/2010	2.23	28.31	12.67	106.77	63.61	170.67	277.46	3.479	1.162
1/31/2011	2.09	27.54	13.16	104.16	63.67	171.53	280.69	3.498	1.171
2/28/2011	2.16	27.90	12.91	106.93	63.73	172.31	283.68	3.540	1.180
3/31/2011	2.16	27.75	12.86	106.68	63.80	173.17	286.99	3.549	1.189
4/30/2011	1.77	18.79	10.62	102.63	63.85	173.73	290.07	4.962	1.199
5/31/2011	1.48	12.10	8.18	68.29	63.90	174.11	292.18	4.991	1.205
6/30/2011	2.13	30.14	14.14	105.70	63.96	175.01	295.35	3.261	1.213
7/31/2011	2.30	30.23	13.13	108.13	64.03	175.95	298.70	3.307	1.222
8/31/2011	2.01	27.60	13.75	98.26	64.09	176.80	301.75	3.303	1.230
9/30/2011	1.84	25.11	13.62	103.00	64.15	177.56	304.84	3.803	1.238
10/31/2011	2.00	29.07	14.56	104.74	64.21	178.46	308.09	3.357	1.247
11/30/2011	1.99	27.72	13.90	103.47	64.27	179.29	311.19	3.467	1.255
12/31/2011	2.03	25.59	12.60	100.65	64.33	180.08	314.31	3.626	1.263
1/31/2012	1.91	22.69	11.86	101.55	64.39	180.79	317.46	4.106	1.272
2/29/2012	1.75	21.14	12.08	87.93	64.44	181.40	320.01	3.822	1.278
3/31/2012	1.73	23.36	13.48	94.23	64.50	182.12	322.93	3.738	1.286
4/30/2012	1.66	23.34	14.10	100.93	64.55	182.82	325.96	4.020	1.294

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 Replacement Ratio
5/31/2012	1.50	22.52	15.02	101.74	64.59	183.52	329.11	4.217	1.303
6/30/2012	1.59	24.43	15.36	105.97	64.64	184.26	332.29	4.056	1.311
7/31/2012	1.60	24.10	15.01	104.94	64.69	185.00	335.55	4.065	1.320
8/31/2012	1.59	23.48	14.78	100.81	64.74	185.73	338.67	4.004	1.328
9/30/2012	1.55	23.16	14.91	108.13	64.79	186.43	341.91	4.356	1.337
10/31/2012	1.65	23.81	14.47	106.16	64.84	187.16	345.20	4.152	1.346
11/30/2012	1.65	25.57	15.51	108.00	64.89	187.93	348.44	3.951	1.354
12/31/2012	1.60	25.37	15.89	98.81	64.94	188.72	351.51	3.649	1.362
1/31/2013	1.54	24.32	15.79	105.03	64.99	189.47	354.76	4.045	1.370
2/28/2013	1.68	24.23	14.47	109.50	65.03	190.15	357.83	4.208	1.378
3/31/2013	1.69	24.00	14.24	109.77	65.08	190.89	361.23	4.254	1.387
4/30/2013	1.62	24.83	15.37	106.80	65.13	191.64	364.44	4.022	1.395
5/31/2013	1.52	22.84	15.03	97.23	65.18	192.35	367.45	3.975	1.402
6/30/2013	1.63	23.63	14.50	106.10	65.23	193.05	370.63	4.182	1.410
7/31/2013	1.59	23.31	14.70	106.68	65.28	193.78	373.94	4.265	1.419
8/31/2013	1.45	22.57	15.60	102.71	65.32	194.48	377.13	4.259	1.427
9/30/2013	1.48	22.47	15.18	104.83	65.37	195.15	380.27	4.358	1.435
10/31/2013	1.44	21.90	15.24	104.29	65.41	195.83	383.50	4.451	1.443
11/30/2013	1.37	21.16	15.50	100.33	65.45	196.46	386.51	4.436	1.451
12/31/2013	1.44	22.43	15.55	103.97	65.50	197.16	389.74	4.337	1.459
1/31/2014	1.46	20.27	13.86	97.68	65.54	197.79	392.76	4.473	1.466
2/28/2014	1.56	22.37	14.37	101.25	65.59	198.41	395.60	4.212	1.473
3/31/2014	1.63	22.90	14.07	102.45	65.64	199.13	398.77	4.157	1.481
4/30/2014	2.15	32.22	14.95	110.13	65.70	200.09	402.08	3.190	1.487
5/31/2014	1.84	29.22	15.85	110.81	65.76	201.00	405.51	3.553	1.495
6/30/2014	1.59	24.85	15.60	91.37	65.81	201.74	408.26	3.440	1.500
7/31/2014	1.38	15.28	11.07	88.32	65.85	202.22	410.99	5.272	1.507
8/31/2014	1.53	27.35	17.85	101.29	65.90	203.06	414.13	3.494	1.514
9/30/2014	1.54	27.39	17.80	94.77	65.94	203.89	416.98	3.264	1.520
10/31/2014	1.49	26.73	17.91	94.45	65.99	204.71	419.90	3.335	1.525
11/30/2014	1.47	28.67	19.55	98.73	66.03	205.57	422.87	3.265	1.531
12/31/2014	1.46	22.84	15.61	94.52	66.08	206.28	425.80	3.873	1.537
1/31/2015	1.66	28.14	16.94	107.58	66.13	207.16	429.13	3.596	1.544
2/28/2015	1.63	26.93	16.51	108.89	66.18	207.91	432.18	3.798	1.551
3/31/2015	1.60	26.87	16.79	100.00	66.23	208.74	435.28	3.499	1.557
4/30/2015	1.54	26.25	16.99	88.13	66.27	209.53	437.92	3.159	1.562
5/31/2015	1.25	25.15	20.10	96.19	66.31	210.31	440.91	3.631	1.568
6/30/2015	1.36	25.32	18.64	101.10	66.35	211.07	443.94	3.777	1.574
7/31/2015	1.35	24.91	18.43	99.97	66.39	211.84	447.04	3.793	1.581
8/31/2015	1.59	24.42	15.36	100.77	66.44	212.60	450.16	3.857	1.587
9/30/2015	1.44	24.18	16.79	94.20	66.49	213.32	452.99	3.662	1.593
10/31/2015	1.31	22.07	16.90	95.23	66.53	214.01	455.94	4.057	1.599
11/30/2015	1.32	24.62	18.70	102.23	66.57	214.75	459.01	3.927	1.605
12/31/2015	1.42	24.46	17.21	102.77	66.61	215.50	462.19	3.956	1.612
1/31/2016	1.44	25.18	17.44	103.71	66.65	216.29	465.41	3.881	1.618
2/29/2016	1.35	24.84	18.40	101.97	66.69	217.01	468.37	3.879	1.624
3/31/2016	1.21	23.81	19.68	99.55	66.73	217.74	471.45	3.965	1.631
4/30/2016	1.18	23.79	20.10	103.23	66.77	218.46	474.55	4.121	1.637
5/31/2016	1.19	24.21	20.34	98.77	66.80	219.21	477.61	3.876	1.643
6/30/2016	1.20	23.15	19.34	82.27	66.84	219.90	480.08	3.368	1.648
7/31/2016	1.23	24.49	19.95	98.97	66.88	220.66	483.15	3.835	1.654
8/31/2016	1.25	24.37	19.54	98.61	66.92	221.42	486.20	3.837	1.660
9/30/2016	1.23	24.71	20.17	94.93	66.95	222.16	489.05	3.648	1.665
10/31/2016	1.24	24.69	19.98	94.68	66.99	222.92	491.99	3.641	1.670

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 Replacement Ratio
11/30/2016	1.26	24.95	19.80	96.73	67.03	223.67	494.89	3.679	1.676
12/31/2016	1.20	24.50	20.33	101.74	67.07	224.43	498.04	3.945	1.682

Pattern: 06-17-06-22Inj Set: SourisHartneyUnit#1

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

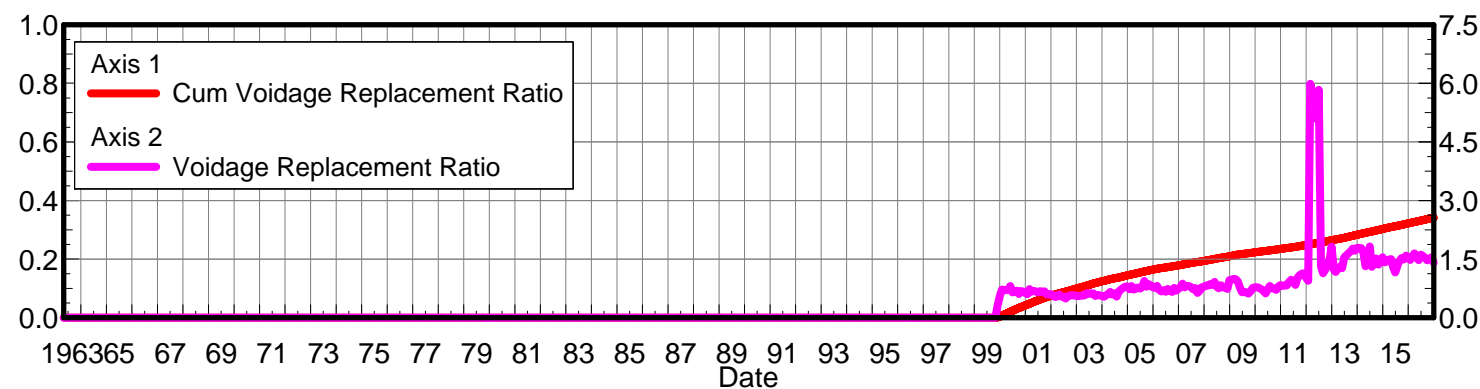
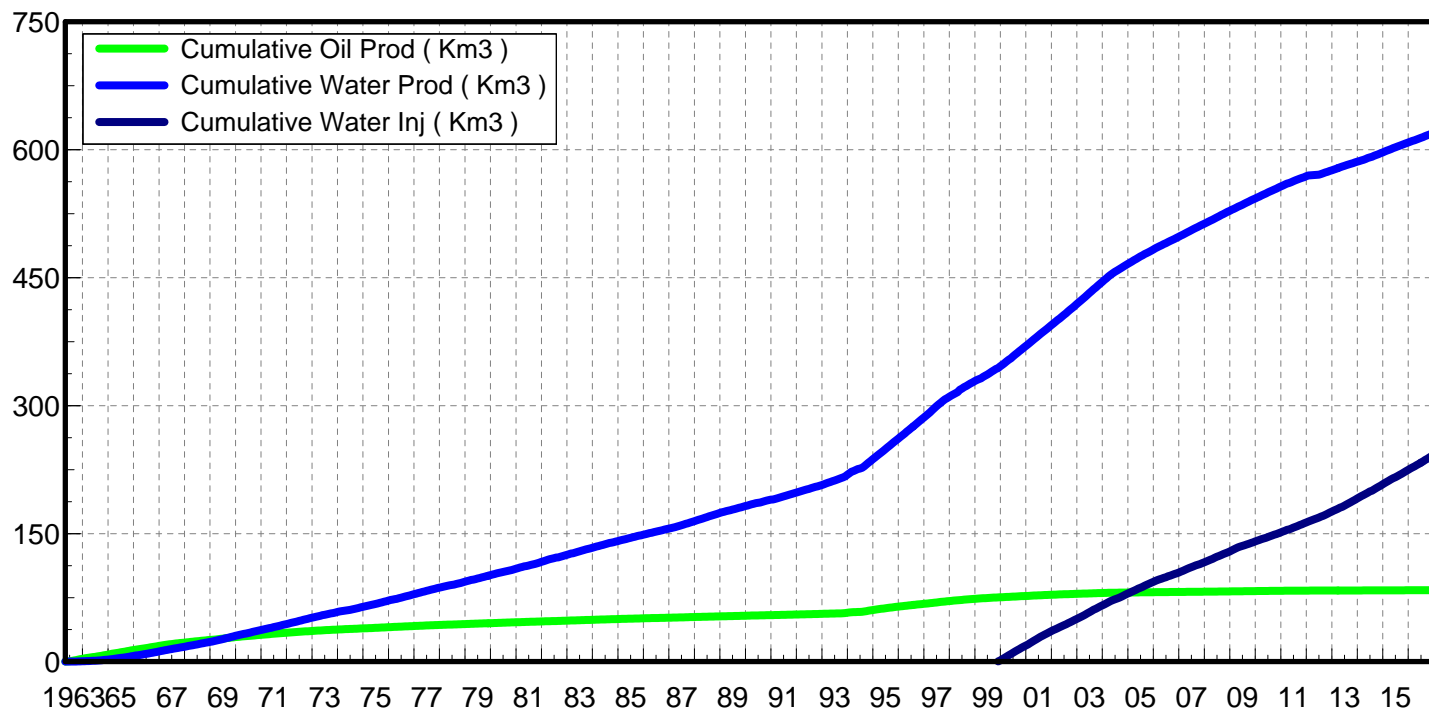
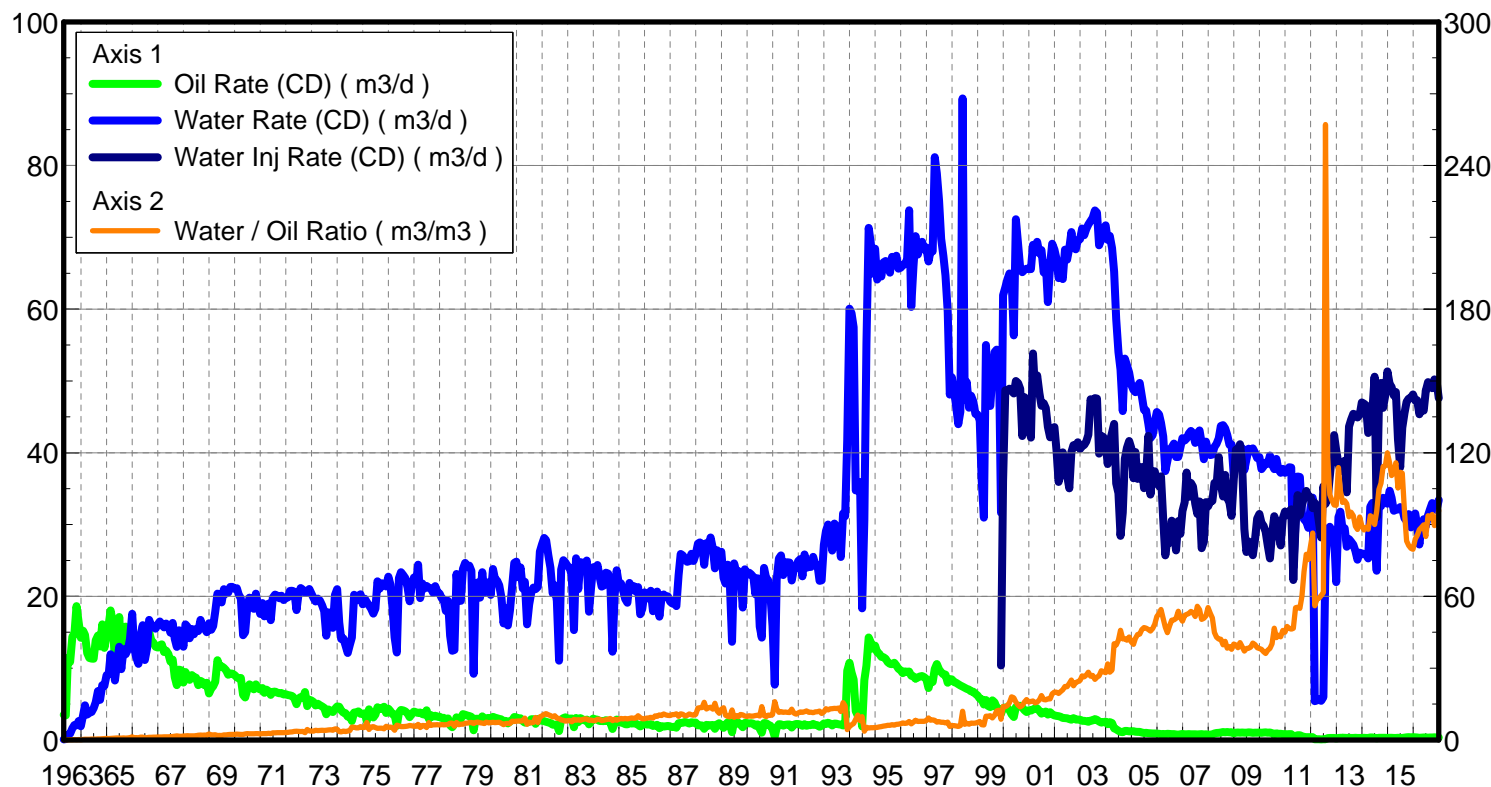
Water / Oil Ratio : * m3/m3

August 01, 2017
Operator: <Ambiguous>

Oil Rate (CD) : 0.22 m3/d

Water Rate (CD) : 20.44 m3/d

Water Inj Rate (CD) : 35.60 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 Replacement Ratio
11/30/1962					0.00	0.00	0.00		
12/31/1962					0.00	0.00	0.00		
1/31/1963					0.00	0.00	0.00		
2/28/1963					0.00	0.00	0.00		
3/31/1963					0.00	0.00	0.00		
4/30/1963	3.51	0.07	0.02		0.11	0.00	0.00	0.000	0.000
5/31/1963	3.42	0.13	0.04		0.21	0.01	0.00	0.000	0.000
6/30/1963	11.42	0.71	0.06		0.55	0.03	0.00	0.000	0.000
7/31/1963	10.87	0.88	0.08		0.89	0.05	0.00	0.000	0.000
8/31/1963	14.39	1.63	0.11		1.34	0.11	0.00	0.000	0.000
9/30/1963	14.84	2.09	0.14		1.78	0.17	0.00	0.000	0.000
10/31/1963	18.65	2.04	0.11		2.36	0.23	0.00	0.000	0.000
11/30/1963	16.27	2.65	0.16		2.85	0.31	0.00	0.000	0.000
12/31/1963	14.24	1.90	0.13		3.29	0.37	0.00	0.000	0.000
1/31/1964	15.21	3.45	0.23		3.76	0.48	0.00	0.000	0.000
2/29/1964	14.62	4.82	0.33		4.19	0.62	0.00	0.000	0.000
3/31/1964	12.09	3.53	0.29		4.56	0.73	0.00	0.000	0.000
4/30/1964	11.42	3.81	0.33		4.90	0.84	0.00	0.000	0.000
5/31/1964	11.32	3.88	0.34		5.25	0.96	0.00	0.000	0.000
6/30/1964	11.31	4.43	0.39		5.59	1.09	0.00	0.000	0.000
7/31/1964	13.87	5.25	0.38		6.02	1.26	0.00	0.000	0.000
8/31/1964	14.55	6.81	0.47		6.47	1.47	0.00	0.000	0.000
9/30/1964	13.02	5.58	0.43		6.86	1.63	0.00	0.000	0.000
10/31/1964	16.10	7.64	0.47		7.36	1.87	0.00	0.000	0.000
11/30/1964	12.83	7.52	0.59		7.75	2.10	0.00	0.000	0.000
12/31/1964	14.46	9.04	0.63		8.20	2.38	0.00	0.000	0.000
1/31/1965	16.05	9.12	0.57		8.69	2.66	0.00	0.000	0.000
2/28/1965	18.04	11.94	0.66		9.20	2.99	0.00	0.000	0.000
3/31/1965	16.39	11.46	0.70		9.71	3.35	0.00	0.000	0.000
4/30/1965	10.74	8.29	0.77		10.03	3.60	0.00	0.000	0.000
5/31/1965	12.67	10.82	0.85		10.42	3.93	0.00	0.000	0.000
6/30/1965	17.13	12.98	0.76		10.94	4.32	0.00	0.000	0.000
7/31/1965	12.36	9.87	0.80		11.32	4.63	0.00	0.000	0.000
8/31/1965	15.35	12.65	0.82		11.80	5.02	0.00	0.000	0.000
9/30/1965	15.78	11.93	0.76		12.27	5.38	0.00	0.000	0.000
10/31/1965	15.16	12.59	0.83		12.74	5.77	0.00	0.000	0.000
11/30/1965	14.01	14.06	1.00		13.16	6.19	0.00	0.000	0.000
12/31/1965	13.58	17.58	1.29		13.58	6.74	0.00	0.000	0.000
1/31/1966	13.68	12.75	0.93		14.00	7.13	0.00	0.000	0.000
2/28/1966	12.20	11.51	0.94		14.35	7.45	0.00	0.000	0.000
3/31/1966	11.58	10.61	0.92		14.71	7.78	0.00	0.000	0.000
4/30/1966	12.12	14.47	1.19		15.07	8.22	0.00	0.000	0.000
5/31/1966	13.67	15.99	1.17		15.49	8.71	0.00	0.000	0.000
6/30/1966	12.84	11.13	0.87		15.88	9.05	0.00	0.000	0.000
7/31/1966	13.36	12.79	0.96		16.29	9.44	0.00	0.000	0.000
8/31/1966	15.02	16.72	1.11		16.76	9.96	0.00	0.000	0.000
9/30/1966	13.89	15.82	1.14		17.17	10.44	0.00	0.000	0.000
10/31/1966	13.54	15.89	1.17		17.59	10.93	0.00	0.000	0.000
11/30/1966	12.98	15.51	1.19		17.98	11.39	0.00	0.000	0.000
12/31/1966	12.87	16.11	1.25		18.38	11.89	0.00	0.000	0.000
1/31/1967	13.20	16.50	1.25		18.79	12.40	0.00	0.000	0.000
2/28/1967	13.31	16.10	1.21		19.16	12.86	0.00	0.000	0.000
3/31/1967	12.24	15.67	1.28		19.54	13.34	0.00	0.000	0.000
4/30/1967	12.45	16.22	1.30		19.92	13.83	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 Replacement Ratio
5/31/1967	11.98	15.91	1.33		20.29	14.32	0.00	0.000	0.000
6/30/1967	10.90	14.94	1.37		20.62	14.77	0.00	0.000	0.000
7/31/1967	11.20	16.31	1.46		20.96	15.27	0.00	0.000	0.000
8/31/1967	8.75	14.08	1.61		21.23	15.71	0.00	0.000	0.000
9/30/1967	7.64	12.97	1.70		21.46	16.10	0.00	0.000	0.000
10/31/1967	9.79	15.29	1.56		21.77	16.57	0.00	0.000	0.000
11/30/1967	9.70	14.89	1.54		22.06	17.02	0.00	0.000	0.000
12/31/1967	7.99	12.98	1.62		22.31	17.42	0.00	0.000	0.000
1/31/1968	9.46	16.09	1.70		22.60	17.92	0.00	0.000	0.000
2/29/1968	8.82	15.77	1.79		22.85	18.38	0.00	0.000	0.000
3/31/1968	8.36	14.17	1.69		23.11	18.82	0.00	0.000	0.000
4/30/1968	9.03	15.45	1.71		23.39	19.28	0.00	0.000	0.000
5/31/1968	8.75	14.72	1.68		23.66	19.74	0.00	0.000	0.000
6/30/1968	8.68	15.45	1.78		23.92	20.20	0.00	0.000	0.000
7/31/1968	7.64	15.15	1.98		24.15	20.67	0.00	0.000	0.000
8/31/1968	8.23	16.74	2.03		24.41	21.19	0.00	0.000	0.000
9/30/1968	8.06	15.71	1.95		24.65	21.66	0.00	0.000	0.000
10/31/1968	7.61	15.51	2.04		24.89	22.14	0.00	0.000	0.000
11/30/1968	7.98	15.02	1.88		25.13	22.59	0.00	0.000	0.000
12/31/1968	6.46	16.26	2.52		25.33	23.10	0.00	0.000	0.000
1/31/1969	7.17	15.35	2.14		25.55	23.57	0.00	0.000	0.000
2/28/1969	7.47	15.85	2.12		25.76	24.02	0.00	0.000	0.000
3/31/1969	8.10	17.85	2.20		26.01	24.57	0.00	0.000	0.000
4/30/1969	11.10	20.39	1.84		26.34	25.18	0.00	0.000	0.000
5/31/1969	10.20	19.31	1.89		26.66	25.78	0.00	0.000	0.000
6/30/1969	10.26	19.15	1.87		26.97	26.36	0.00	0.000	0.000
7/31/1969	10.03	21.00	2.09		27.28	27.01	0.00	0.000	0.000
8/31/1969	9.71	20.39	2.10		27.58	27.64	0.00	0.000	0.000
9/30/1969	9.09	20.51	2.26		27.85	28.25	0.00	0.000	0.000
10/31/1969	9.26	21.31	2.30		28.14	28.91	0.00	0.000	0.000
11/30/1969	9.24	21.32	2.31		28.42	29.55	0.00	0.000	0.000
12/31/1969	9.05	21.04	2.33		28.70	30.21	0.00	0.000	0.000
1/31/1970	8.73	21.14	2.42		28.97	30.86	0.00	0.000	0.000
2/28/1970	8.56	20.24	2.36		29.21	31.43	0.00	0.000	0.000
3/31/1970	8.65	19.74	2.28		29.47	32.04	0.00	0.000	0.000
4/30/1970	6.27	14.59	2.33		29.66	32.48	0.00	0.000	0.000
5/31/1970	5.92	15.02	2.54		29.85	32.94	0.00	0.000	0.000
6/30/1970	6.97	18.44	2.64		30.05	33.50	0.00	0.000	0.000
7/31/1970	7.75	19.82	2.56		30.30	34.11	0.00	0.000	0.000
8/31/1970	7.51	19.33	2.57		30.53	34.71	0.00	0.000	0.000
9/30/1970	7.06	18.27	2.59		30.74	35.26	0.00	0.000	0.000
10/31/1970	7.75	20.37	2.63		30.98	35.89	0.00	0.000	0.000
11/30/1970	7.19	18.82	2.62		31.20	36.45	0.00	0.000	0.000
12/31/1970	7.03	17.54	2.49		31.41	37.00	0.00	0.000	0.000
1/31/1971	7.23	19.05	2.64		31.64	37.59	0.00	0.000	0.000
2/28/1971	6.57	17.21	2.62		31.82	38.07	0.00	0.000	0.000
3/31/1971	7.01	18.75	2.68		32.04	38.65	0.00	0.000	0.000
4/30/1971	6.80	19.01	2.80		32.24	39.22	0.00	0.000	0.000
5/31/1971	6.28	16.67	2.65		32.44	39.74	0.00	0.000	0.000
6/30/1971	6.69	19.83	2.96		32.64	40.33	0.00	0.000	0.000
7/31/1971	6.75	20.24	3.00		32.85	40.96	0.00	0.000	0.000
8/31/1971	6.59	20.08	3.05		33.05	41.58	0.00	0.000	0.000
9/30/1971	6.49	19.74	3.04		33.25	42.18	0.00	0.000	0.000
10/31/1971	6.55	20.09	3.07		33.45	42.80	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 Replacement Ratio
11/30/1971	6.34	19.50	3.08		33.64	43.38	0.00	0.000	0.000
12/31/1971	6.35	19.76	3.11		33.84	44.00	0.00	0.000	0.000
1/31/1972	6.25	19.87	3.18		34.03	44.61	0.00	0.000	0.000
2/29/1972	6.20	20.75	3.35		34.21	45.21	0.00	0.000	0.000
3/31/1972	6.13	20.77	3.39		34.40	45.86	0.00	0.000	0.000
4/30/1972	5.80	20.65	3.56		34.57	46.48	0.00	0.000	0.000
5/31/1972	4.99	18.08	3.63		34.73	47.04	0.00	0.000	0.000
6/30/1972	5.74	20.39	3.55		34.90	47.65	0.00	0.000	0.000
7/31/1972	5.97	21.17	3.54		35.09	48.31	0.00	0.000	0.000
8/31/1972	5.85	20.92	3.58		35.27	48.95	0.00	0.000	0.000
9/30/1972	6.69	20.54	3.07		35.47	49.57	0.00	0.000	0.000
10/31/1972	4.71	20.50	4.35		35.61	50.21	0.00	0.000	0.000
11/30/1972	5.60	21.03	3.75		35.78	50.84	0.00	0.000	0.000
12/31/1972	5.50	20.41	3.71		35.95	51.47	0.00	0.000	0.000
1/31/1973	5.27	19.73	3.74		36.12	52.08	0.00	0.000	0.000
2/28/1973	4.80	19.29	4.02		36.25	52.62	0.00	0.000	0.000
3/31/1973	5.04	19.68	3.91		36.41	53.23	0.00	0.000	0.000
4/30/1973	4.86	19.43	4.00		36.55	53.81	0.00	0.000	0.000
5/31/1973	4.66	18.75	4.02		36.70	54.40	0.00	0.000	0.000
6/30/1973	4.47	17.92	4.01		36.83	54.93	0.00	0.000	0.000
7/31/1973	3.57	14.53	4.07		36.94	55.38	0.00	0.000	0.000
8/31/1973	4.25	17.78	4.19		37.07	55.93	0.00	0.000	0.000
9/30/1973	4.03	17.18	4.27		37.19	56.45	0.00	0.000	0.000
10/31/1973	3.88	15.61	4.02		37.31	56.93	0.00	0.000	0.000
11/30/1973	4.32	20.19	4.67		37.44	57.54	0.00	0.000	0.000
12/31/1973	4.67	21.00	4.50		37.59	58.19	0.00	0.000	0.000
1/31/1974	4.63	16.36	3.53		37.73	58.70	0.00	0.000	0.000
2/28/1974	4.13	14.06	3.41		37.85	59.09	0.00	0.000	0.000
3/31/1974	3.80	14.14	3.72		37.97	59.53	0.00	0.000	0.000
4/30/1974	3.74	13.18	3.52		38.08	59.92	0.00	0.000	0.000
5/31/1974	3.25	12.12	3.73		38.18	60.30	0.00	0.000	0.000
6/30/1974	3.37	13.23	3.92		38.28	60.70	0.00	0.000	0.000
7/31/1974	2.64	14.27	5.41		38.36	61.14	0.00	0.000	0.000
8/31/1974	3.82	20.23	5.29		38.48	61.77	0.00	0.000	0.000
9/30/1974	3.86	19.45	5.04		38.60	62.35	0.00	0.000	0.000
10/31/1974	3.97	20.10	5.06		38.72	62.97	0.00	0.000	0.000
11/30/1974	3.65	20.28	5.56		38.83	63.58	0.00	0.000	0.000
12/31/1974	3.64	18.88	5.19		38.94	64.17	0.00	0.000	0.000
1/31/1975	3.72	19.66	5.28		39.06	64.78	0.00	0.000	0.000
2/28/1975	2.61	19.21	7.36		39.13	65.31	0.00	0.000	0.000
3/31/1975	4.27	18.76	4.39		39.26	65.90	0.00	0.000	0.000
4/30/1975	3.40	18.29	5.38		39.36	66.44	0.00	0.000	0.000
5/31/1975	3.13	17.58	5.61		39.46	66.99	0.00	0.000	0.000
6/30/1975	3.54	18.29	5.16		39.57	67.54	0.00	0.000	0.000
7/31/1975	4.55	22.10	4.85		39.71	68.22	0.00	0.000	0.000
8/31/1975	4.30	21.06	4.90		39.84	68.88	0.00	0.000	0.000
9/30/1975	4.43	21.84	4.93		39.97	69.53	0.00	0.000	0.000
10/31/1975	4.63	21.60	4.67		40.12	70.20	0.00	0.000	0.000
11/30/1975	3.75	21.39	5.70		40.23	70.84	0.00	0.000	0.000
12/31/1975	4.35	22.73	5.22		40.37	71.55	0.00	0.000	0.000
1/31/1976	4.03	21.66	5.38		40.49	72.22	0.00	0.000	0.000
2/29/1976	3.58	18.37	5.13		40.59	72.75	0.00	0.000	0.000
3/31/1976	3.54	14.30	4.04		40.70	73.20	0.00	0.000	0.000
4/30/1976	1.98	12.19	6.16		40.76	73.56	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 Replacement Ratio
5/31/1976	3.81	22.54	5.92		40.88	74.26	0.00	0.000	0.000
6/30/1976	4.18	23.37	5.60		41.01	74.96	0.00	0.000	0.000
7/31/1976	4.11	22.96	5.58		41.13	75.67	0.00	0.000	0.000
8/31/1976	3.99	22.54	5.65		41.26	76.37	0.00	0.000	0.000
9/30/1976	3.69	21.25	5.75		41.37	77.01	0.00	0.000	0.000
10/31/1976	3.18	19.30	6.06		41.47	77.61	0.00	0.000	0.000
11/30/1976	3.63	21.46	5.91		41.58	78.25	0.00	0.000	0.000
12/31/1976	3.96	22.64	5.72		41.70	78.95	0.00	0.000	0.000
1/31/1977	3.85	22.08	5.73		41.82	79.64	0.00	0.000	0.000
2/28/1977	3.75	24.42	6.51		41.92	80.32	0.00	0.000	0.000
3/31/1977	3.82	19.75	5.17		42.04	80.93	0.00	0.000	0.000
4/30/1977	3.61	21.77	6.04		42.15	81.59	0.00	0.000	0.000
5/31/1977	3.54	21.08	5.96		42.26	82.24	0.00	0.000	0.000
6/30/1977	4.14	21.45	5.18		42.38	82.88	0.00	0.000	0.000
7/31/1977	2.93	21.21	7.23		42.47	83.54	0.00	0.000	0.000
8/31/1977	3.46	21.08	6.09		42.58	84.19	0.00	0.000	0.000
9/30/1977	3.25	20.48	6.30		42.68	84.81	0.00	0.000	0.000
10/31/1977	3.37	21.42	6.35		42.78	85.47	0.00	0.000	0.000
11/30/1977	3.22	20.63	6.41		42.88	86.09	0.00	0.000	0.000
12/31/1977	3.25	20.40	6.29		42.98	86.72	0.00	0.000	0.000
1/31/1978	3.05	19.71	6.46		43.08	87.34	0.00	0.000	0.000
2/28/1978	3.09	19.59	6.35		43.16	87.88	0.00	0.000	0.000
3/31/1978	2.83	17.98	6.36		43.25	88.44	0.00	0.000	0.000
4/30/1978	3.01	19.38	6.45		43.34	89.02	0.00	0.000	0.000
5/31/1978	2.05	14.52	7.08		43.40	89.47	0.00	0.000	0.000
6/30/1978	1.77	12.43	7.01		43.46	89.85	0.00	0.000	0.000
7/31/1978	2.20	12.54	5.71		43.53	90.23	0.00	0.000	0.000
8/31/1978	3.16	23.12	7.30		43.62	90.95	0.00	0.000	0.000
9/30/1978	3.03	19.38	6.40		43.71	91.53	0.00	0.000	0.000
10/31/1978	2.93	19.37	6.61		43.80	92.13	0.00	0.000	0.000
11/30/1978	3.60	23.80	6.62		43.91	92.85	0.00	0.000	0.000
12/31/1978	3.51	24.66	7.02		44.02	93.61	0.00	0.000	0.000
1/31/1979	3.40	24.10	7.09		44.13	94.36	0.00	0.000	0.000
2/28/1979	3.34	24.29	7.28		44.22	95.04	0.00	0.000	0.000
3/31/1979	3.23	23.55	7.30		44.32	95.77	0.00	0.000	0.000
4/30/1979	1.34	9.22	6.86		44.36	96.05	0.00	0.000	0.000
5/31/1979	2.95	21.67	7.34		44.45	96.72	0.00	0.000	0.000
6/30/1979	2.94	21.93	7.45		44.54	97.37	0.00	0.000	0.000
7/31/1979	2.76	19.83	7.19		44.63	97.99	0.00	0.000	0.000
8/31/1979	3.30	23.36	7.09		44.73	98.71	0.00	0.000	0.000
9/30/1979	2.99	20.50	6.86		44.82	99.33	0.00	0.000	0.000
10/31/1979	2.90	21.67	7.48		44.91	100.00	0.00	0.000	0.000
11/30/1979	3.06	21.95	7.18		45.00	100.66	0.00	0.000	0.000
12/31/1979	2.79	20.20	7.24		45.09	101.29	0.00	0.000	0.000
1/31/1980	3.22	23.80	7.39		45.19	102.02	0.00	0.000	0.000
2/29/1980	3.11	22.45	7.23		45.28	102.67	0.00	0.000	0.000
3/31/1980	3.03	22.19	7.33		45.37	103.36	0.00	0.000	0.000
4/30/1980	2.93	21.54	7.36		45.46	104.01	0.00	0.000	0.000
5/31/1980	2.87	19.81	6.91		45.55	104.62	0.00	0.000	0.000
6/30/1980	2.55	16.24	6.37		45.62	105.11	0.00	0.000	0.000
7/31/1980	2.67	18.33	6.87		45.71	105.68	0.00	0.000	0.000
8/31/1980	2.31	15.94	6.91		45.78	106.17	0.00	0.000	0.000
9/30/1980	2.64	18.04	6.84		45.86	106.71	0.00	0.000	0.000
10/31/1980	2.73	21.44	7.85		45.94	107.38	0.00	0.000	0.000

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11/30/1980	3.20	24.67	7.70		46.04	108.12	0.00	0.000	0.000
12/31/1980	3.16	24.84	7.85		46.14	108.89	0.00	0.000	0.000
1/31/1981	2.87	22.65	7.90		46.22	109.59	0.00	0.000	0.000
2/28/1981	3.02	24.04	7.96		46.31	110.26	0.00	0.000	0.000
3/31/1981	2.64	21.10	8.00		46.39	110.92	0.00	0.000	0.000
4/30/1981	2.41	22.03	9.14		46.46	111.58	0.00	0.000	0.000
5/31/1981	2.47	16.10	6.51		46.54	112.08	0.00	0.000	0.000
6/30/1981	2.53	18.87	7.45		46.62	112.64	0.00	0.000	0.000
7/31/1981	2.88	20.48	7.11		46.70	113.28	0.00	0.000	0.000
8/31/1981	2.89	21.23	7.35		46.79	113.94	0.00	0.000	0.000
9/30/1981	2.24	21.00	9.39		46.86	114.57	0.00	0.000	0.000
10/31/1981	2.94	21.32	7.26		46.95	115.23	0.00	0.000	0.000
11/30/1981	2.72	26.23	9.64		47.03	116.01	0.00	0.000	0.000
12/31/1981	2.70	27.23	10.10		47.12	116.86	0.00	0.000	0.000
1/31/1982	2.62	28.13	10.73		47.20	117.73	0.00	0.000	0.000
2/28/1982	2.52	27.82	11.03		47.27	118.51	0.00	0.000	0.000
3/31/1982	2.45	25.71	10.51		47.35	119.31	0.00	0.000	0.000
4/30/1982	2.36	24.00	10.17		47.42	120.03	0.00	0.000	0.000
5/31/1982	2.13	20.42	9.59		47.48	120.66	0.00	0.000	0.000
6/30/1982	2.13	21.53	10.11		47.55	121.31	0.00	0.000	0.000
7/31/1982	2.13	19.39	9.12		47.61	121.91	0.00	0.000	0.000
8/31/1982	1.23	11.03	8.95		47.65	122.25	0.00	0.000	0.000
9/30/1982	2.83	23.73	8.38		47.74	122.96	0.00	0.000	0.000
10/31/1982	3.05	25.03	8.20		47.83	123.74	0.00	0.000	0.000
11/30/1982	3.15	24.70	7.84		47.92	124.48	0.00	0.000	0.000
12/31/1982	3.01	24.23	8.05		48.02	125.23	0.00	0.000	0.000
1/31/1983	2.94	23.97	8.15		48.11	125.97	0.00	0.000	0.000
2/28/1983	3.01	22.86	7.60		48.19	126.61	0.00	0.000	0.000
3/31/1983	1.78	15.29	8.60		48.25	127.09	0.00	0.000	0.000
4/30/1983	3.07	25.30	8.25		48.34	127.84	0.00	0.000	0.000
5/31/1983	2.48	21.00	8.45		48.42	128.50	0.00	0.000	0.000
6/30/1983	3.03	24.77	8.16		48.51	129.24	0.00	0.000	0.000
7/31/1983	2.89	24.68	8.54		48.60	130.00	0.00	0.000	0.000
8/31/1983	2.72	24.00	8.83		48.68	130.75	0.00	0.000	0.000
9/30/1983	2.84	25.00	8.79		48.77	131.50	0.00	0.000	0.000
10/31/1983	2.18	17.87	8.20		48.83	132.05	0.00	0.000	0.000
11/30/1983	2.55	21.20	8.30		48.91	132.69	0.00	0.000	0.000
12/31/1983	2.98	24.06	8.06		49.00	133.43	0.00	0.000	0.000
1/31/1984	2.87	23.32	8.13		49.09	134.16	0.00	0.000	0.000
2/29/1984	2.82	24.38	8.63		49.17	134.86	0.00	0.000	0.000
3/31/1984	2.64	22.77	8.64		49.26	135.57	0.00	0.000	0.000
4/30/1984	2.65	21.37	8.05		49.34	136.21	0.00	0.000	0.000
5/31/1984	2.61	21.52	8.23		49.42	136.88	0.00	0.000	0.000
6/30/1984	2.76	23.30	8.44		49.50	137.58	0.00	0.000	0.000
7/31/1984	2.67	23.16	8.67		49.58	138.29	0.00	0.000	0.000
8/31/1984	2.45	22.06	9.00		49.66	138.98	0.00	0.000	0.000
9/30/1984	1.52	12.30	8.09		49.70	139.35	0.00	0.000	0.000
10/31/1984	2.31	20.06	8.68		49.78	139.97	0.00	0.000	0.000
11/30/1984	2.85	23.63	8.29		49.86	140.68	0.00	0.000	0.000
12/31/1984	2.51	21.65	8.64		49.94	141.35	0.00	0.000	0.000
1/31/1985	2.43	21.81	8.98		50.01	142.03	0.00	0.000	0.000
2/28/1985	2.36	20.82	8.81		50.08	142.61	0.00	0.000	0.000
3/31/1985	2.19	19.65	8.98		50.15	143.22	0.00	0.000	0.000
4/30/1985	2.17	19.10	8.80		50.21	143.79	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 Replacement Ratio
5/31/1985	2.42	21.87	9.03		50.29	144.47	0.00	0.000	0.000
6/30/1985	2.28	20.93	9.17		50.36	145.10	0.00	0.000	0.000
7/31/1985	2.36	21.42	9.08		50.43	145.76	0.00	0.000	0.000
8/31/1985	2.26	20.68	9.14		50.50	146.40	0.00	0.000	0.000
9/30/1985	2.10	21.30	10.13		50.56	147.04	0.00	0.000	0.000
10/31/1985	1.87	17.52	9.35		50.62	147.58	0.00	0.000	0.000
11/30/1985	2.05	18.26	8.89		50.68	148.13	0.00	0.000	0.000
12/31/1985	2.32	20.55	8.86		50.76	148.77	0.00	0.000	0.000
1/31/1986	2.16	19.71	9.12		50.82	149.38	0.00	0.000	0.000
2/28/1986	2.15	19.86	9.22		50.88	149.93	0.00	0.000	0.000
3/31/1986	2.20	20.77	9.46		50.95	150.58	0.00	0.000	0.000
4/30/1986	1.96	17.93	9.15		51.01	151.12	0.00	0.000	0.000
5/31/1986	2.01	20.32	10.10		51.07	151.75	0.00	0.000	0.000
6/30/1986	2.10	20.67	9.86		51.13	152.37	0.00	0.000	0.000
7/31/1986	1.64	17.16	10.47		51.19	152.90	0.00	0.000	0.000
8/31/1986	1.94	19.74	10.18		51.25	153.51	0.00	0.000	0.000
9/30/1986	1.86	20.27	10.90		51.30	154.12	0.00	0.000	0.000
10/31/1986	1.90	19.90	10.49		51.36	154.74	0.00	0.000	0.000
11/30/1986	1.95	20.00	10.26		51.42	155.34	0.00	0.000	0.000
12/31/1986	1.89	19.26	10.17		51.48	155.93	0.00	0.000	0.000
1/31/1987	1.79	19.00	10.63		51.53	156.52	0.00	0.000	0.000
2/28/1987	1.83	19.39	10.58		51.58	157.06	0.00	0.000	0.000
3/31/1987	1.71	18.65	10.91		51.64	157.64	0.00	0.000	0.000
4/30/1987	2.33	22.97	9.84		51.71	158.33	0.00	0.000	0.000
5/31/1987	2.36	25.90	10.95		51.78	159.13	0.00	0.000	0.000
6/30/1987	2.39	25.70	10.74		51.85	159.91	0.00	0.000	0.000
7/31/1987	2.51	25.26	10.08		51.93	160.69	0.00	0.000	0.000
8/31/1987	2.42	24.81	10.27		52.00	161.46	0.00	0.000	0.000
9/30/1987	2.29	24.90	10.87		52.07	162.20	0.00	0.000	0.000
10/31/1987	2.46	25.94	10.54		52.15	163.01	0.00	0.000	0.000
11/30/1987	2.41	24.93	10.35		52.22	163.76	0.00	0.000	0.000
12/31/1987	2.42	25.87	10.69		52.30	164.56	0.00	0.000	0.000
1/31/1988	2.05	27.35	13.33		52.36	165.41	0.00	0.000	0.000
2/29/1988	2.04	27.52	13.48		52.42	166.20	0.00	0.000	0.000
3/31/1988	2.01	27.26	13.54		52.48	167.05	0.00	0.000	0.000
4/30/1988	1.55	24.40	15.74		52.53	167.78	0.00	0.000	0.000
5/31/1988	2.12	27.42	12.96		52.59	168.63	0.00	0.000	0.000
6/30/1988	1.99	26.77	13.43		52.65	169.43	0.00	0.000	0.000
7/31/1988	2.06	28.19	13.66		52.72	170.31	0.00	0.000	0.000
8/31/1988	2.07	26.68	12.86		52.78	171.14	0.00	0.000	0.000
9/30/1988	1.56	23.90	15.35		52.83	171.85	0.00	0.000	0.000
10/31/1988	2.17	26.42	12.17		52.90	172.67	0.00	0.000	0.000
11/30/1988	2.33	25.93	11.11		52.97	173.45	0.00	0.000	0.000
12/31/1988	2.05	26.23	12.80		53.03	174.26	0.00	0.000	0.000
1/31/1989	1.68	22.58	13.46		53.08	174.96	0.00	0.000	0.000
2/28/1989	2.10	21.79	10.36		53.14	175.57	0.00	0.000	0.000
3/31/1989	2.47	24.42	9.87		53.22	176.33	0.00	0.000	0.000
4/30/1989	2.27	21.97	9.68		53.29	176.99	0.00	0.000	0.000
5/31/1989	1.09	13.68	12.54		53.32	177.41	0.00	0.000	0.000
6/30/1989	2.59	24.60	9.49		53.40	178.15	0.00	0.000	0.000
7/31/1989	2.30	23.35	10.17		53.47	178.87	0.00	0.000	0.000
8/31/1989	2.41	23.52	9.75		53.54	179.60	0.00	0.000	0.000
9/30/1989	2.13	22.77	10.69		53.61	180.29	0.00	0.000	0.000
10/31/1989	1.76	18.45	10.46		53.66	180.86	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 Replacement Ratio
11/30/1989	2.38	23.77	9.97		53.73	181.57	0.00	0.000	0.000
12/31/1989	2.35	23.00	9.77		53.81	182.28	0.00	0.000	0.000
1/31/1990	2.30	23.29	10.13		53.88	183.01	0.00	0.000	0.000
2/28/1990	2.32	23.07	9.94		53.94	183.65	0.00	0.000	0.000
3/31/1990	2.27	22.71	10.01		54.01	184.36	0.00	0.000	0.000
4/30/1990	1.99	20.30	10.22		54.07	184.97	0.00	0.000	0.000
5/31/1990	2.18	22.52	10.31		54.14	185.66	0.00	0.000	0.000
6/30/1990	1.58	15.80	10.02		54.19	186.14	0.00	0.000	0.000
7/31/1990	1.02	14.26	13.94		54.22	186.58	0.00	0.000	0.000
8/31/1990	2.35	23.97	10.19		54.29	187.32	0.00	0.000	0.000
9/30/1990	2.33	22.57	9.70		54.36	188.00	0.00	0.000	0.000
10/31/1990	2.14	22.23	10.39		54.43	188.69	0.00	0.000	0.000
11/30/1990	1.96	20.13	10.25		54.49	189.29	0.00	0.000	0.000
12/31/1990	1.50	15.90	10.58		54.53	189.79	0.00	0.000	0.000
1/31/1991	0.48	7.71	16.04		54.55	190.02	0.00	0.000	0.000
2/28/1991	1.71	22.32	13.08		54.60	190.65	0.00	0.000	0.000
3/31/1991	2.19	25.29	11.56		54.66	191.43	0.00	0.000	0.000
4/30/1991	2.17	25.70	11.84		54.73	192.20	0.00	0.000	0.000
5/31/1991	1.99	22.97	11.56		54.79	192.92	0.00	0.000	0.000
6/30/1991	2.12	24.73	11.69		54.85	193.66	0.00	0.000	0.000
7/31/1991	2.14	24.74	11.55		54.92	194.43	0.00	0.000	0.000
8/31/1991	2.16	24.71	11.45		54.99	195.19	0.00	0.000	0.000
9/30/1991	1.73	22.20	12.86		55.04	195.86	0.00	0.000	0.000
10/31/1991	2.12	23.81	11.22		55.11	196.60	0.00	0.000	0.000
11/30/1991	2.22	23.97	10.81		55.17	197.31	0.00	0.000	0.000
12/31/1991	2.21	24.90	11.27		55.24	198.09	0.00	0.000	0.000
1/31/1992	2.15	25.19	11.71		55.31	198.87	0.00	0.000	0.000
2/29/1992	1.98	22.79	11.54		55.36	199.53	0.00	0.000	0.000
3/31/1992	2.19	25.84	11.80		55.43	200.33	0.00	0.000	0.000
4/30/1992	1.97	24.00	12.16		55.49	201.05	0.00	0.000	0.000
5/31/1992	2.09	24.10	11.53		55.56	201.80	0.00	0.000	0.000
6/30/1992	2.07	24.10	11.62		55.62	202.52	0.00	0.000	0.000
7/31/1992	2.24	25.52	11.38		55.69	203.31	0.00	0.000	0.000
8/31/1992	2.08	24.45	11.73		55.75	204.07	0.00	0.000	0.000
9/30/1992	2.07	24.37	11.79		55.81	204.80	0.00	0.000	0.000
10/31/1992	1.84	22.16	12.07		55.87	205.49	0.00	0.000	0.000
11/30/1992	2.00	22.23	11.10		55.93	206.15	0.00	0.000	0.000
12/31/1992	2.31	27.20	11.76		56.00	207.00	0.00	0.000	0.000
1/31/1993	2.22	29.10	13.09		56.07	207.90	0.00	0.000	0.000
2/28/1993	2.40	30.00	12.52		56.14	208.74	0.00	0.000	0.000
3/31/1993	2.28	29.64	12.99		56.21	209.66	0.00	0.000	0.000
4/30/1993	2.01	26.37	13.10		56.27	210.45	0.00	0.000	0.000
5/31/1993	2.28	30.15	13.22		56.34	211.38	0.00	0.000	0.000
6/30/1993	2.26	29.70	13.16		56.41	212.27	0.00	0.000	0.000
7/31/1993	2.18	29.16	13.35		56.48	213.18	0.00	0.000	0.000
8/31/1993	2.15	25.49	11.86		56.54	213.97	0.00	0.000	0.000
9/30/1993	2.02	31.53	15.64		56.60	214.91	0.00	0.000	0.000
10/31/1993	2.20	31.17	14.17		56.67	215.88	0.00	0.000	0.000
11/30/1993	9.64	41.78	4.33		56.96	217.13	0.00	0.000	0.000
12/31/1993	10.75	60.06	5.59		57.29	219.00	0.00	0.000	0.000
1/31/1994	9.39	59.43	6.33		57.59	220.84	0.00	0.000	0.000
2/28/1994	8.41	57.47	6.84		57.82	222.45	0.00	0.000	0.000
3/31/1994	4.02	34.75	8.65		57.95	223.52	0.00	0.000	0.000
4/30/1994	3.37	35.01	10.40		58.05	224.58	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 Replacement Ratio
5/31/1994	4.47	35.90	8.04		58.18	225.69	0.00	0.000	0.000
6/30/1994	1.88	18.33	9.75		58.24	226.24	0.00	0.000	0.000
7/31/1994	8.34	30.64	3.67		58.50	227.19	0.00	0.000	0.000
8/31/1994	10.34	55.16	5.33		58.82	228.90	0.00	0.000	0.000
9/30/1994	14.27	71.31	5.00		59.25	231.04	0.00	0.000	0.000
10/31/1994	13.60	69.25	5.09		59.67	233.18	0.00	0.000	0.000
11/30/1994	12.71	64.95	5.11		60.05	235.13	0.00	0.000	0.000
12/31/1994	13.14	68.43	5.21		60.46	237.25	0.00	0.000	0.000
1/31/1995	12.23	64.11	5.24		60.84	239.24	0.00	0.000	0.000
2/28/1995	12.03	65.60	5.45		61.17	241.08	0.00	0.000	0.000
3/31/1995	11.58	64.56	5.57		61.53	243.08	0.00	0.000	0.000
4/30/1995	11.54	66.52	5.76		61.88	245.08	0.00	0.000	0.000
5/31/1995	11.30	66.71	5.90		62.23	247.14	0.00	0.000	0.000
6/30/1995	10.85	66.36	6.12		62.56	249.13	0.00	0.000	0.000
7/31/1995	10.59	65.08	6.15		62.88	251.15	0.00	0.000	0.000
8/31/1995	10.55	67.28	6.38		63.21	253.24	0.00	0.000	0.000
9/30/1995	10.75	66.66	6.20		63.53	255.24	0.00	0.000	0.000
10/31/1995	10.37	67.44	6.50		63.85	257.33	0.00	0.000	0.000
11/30/1995	9.94	65.64	6.60		64.15	259.30	0.00	0.000	0.000
12/31/1995	9.68	65.78	6.80		64.45	261.34	0.00	0.000	0.000
1/31/1996	9.30	66.10	7.11		64.74	263.39	0.00	0.000	0.000
2/29/1996	9.56	66.26	6.93		65.02	265.31	0.00	0.000	0.000
3/31/1996	9.49	66.92	7.05		65.31	267.38	0.00	0.000	0.000
4/30/1996	9.54	73.76	7.74		65.60	269.59	0.00	0.000	0.000
5/31/1996	8.96	60.31	6.73		65.88	271.46	0.00	0.000	0.000
6/30/1996	8.86	65.97	7.45		66.14	273.44	0.00	0.000	0.000
7/31/1996	8.54	70.14	8.21		66.41	275.62	0.00	0.000	0.000
8/31/1996	8.71	67.59	7.76		66.68	277.71	0.00	0.000	0.000
9/30/1996	8.83	68.62	7.77		66.94	279.77	0.00	0.000	0.000
10/31/1996	8.91	69.37	7.78		67.22	281.92	0.00	0.000	0.000
11/30/1996	8.76	68.31	7.80		67.48	283.97	0.00	0.000	0.000
12/31/1996	8.49	68.60	8.08		67.74	286.10	0.00	0.000	0.000
1/31/1997	7.24	66.64	9.21		67.97	288.16	0.00	0.000	0.000
2/28/1997	8.25	68.04	8.25		68.20	290.07	0.00	0.000	0.000
3/31/1997	8.08	68.04	8.42		68.45	292.18	0.00	0.000	0.000
4/30/1997	9.89	81.17	8.21		68.75	294.61	0.00	0.000	0.000
5/31/1997	10.58	78.92	7.46		69.07	297.06	0.00	0.000	0.000
6/30/1997	9.81	75.08	7.65		69.37	299.31	0.00	0.000	0.000
7/31/1997	9.44	69.79	7.40		69.66	301.48	0.00	0.000	0.000
8/31/1997	9.14	67.39	7.38		69.94	303.56	0.00	0.000	0.000
9/30/1997	9.10	64.67	7.10		70.22	305.51	0.00	0.000	0.000
10/31/1997	7.96	59.63	7.49		70.46	307.35	0.00	0.000	0.000
11/30/1997	8.49	48.11	5.67		70.72	308.80	0.00	0.000	0.000
12/31/1997	8.43	50.52	5.99		70.98	310.36	0.00	0.000	0.000
1/31/1998	8.07	48.50	6.01		71.23	311.87	0.00	0.000	0.000
2/28/1998	7.98	46.60	5.84		71.45	313.17	0.00	0.000	0.000
3/31/1998	7.76	43.99	5.67		71.69	314.53	0.00	0.000	0.000
4/30/1998	7.59	45.71	6.02		71.92	315.91	0.00	0.000	0.000
5/31/1998	7.42	89.34	12.04		72.15	318.68	0.00	0.000	0.000
6/30/1998	7.29	47.35	6.50		72.37	320.10	0.00	0.000	0.000
7/31/1998	7.11	49.83	7.01		72.59	321.64	0.00	0.000	0.000
8/31/1998	7.01	46.27	6.60		72.81	323.08	0.00	0.000	0.000
9/30/1998	6.77	47.95	7.09		73.01	324.51	0.00	0.000	0.000
10/31/1998	6.71	47.15	7.02		73.22	325.98	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 Replacement Ratio
11/30/1998	6.43	45.41	7.07		73.41	327.34	0.00	0.000	0.000
12/31/1998	6.21	45.34	7.30		73.61	328.74	0.00	0.000	0.000
1/31/1999	5.76	44.52	7.72		73.78	330.12	0.00	0.000	0.000
2/28/1999	5.67	36.24	6.39		73.94	331.14	0.00	0.000	0.000
3/31/1999	4.93	30.95	6.28		74.10	332.10	0.00	0.000	0.000
4/30/1999	5.56	55.02	9.90		74.26	333.75	0.00	0.000	0.000
5/31/1999	4.73	46.98	9.93		74.41	335.20	0.00	0.000	0.000
6/30/1999	4.59	46.52	10.13		74.55	336.60	0.00	0.000	0.000
7/31/1999	5.52	50.76	9.20		74.72	338.17	0.00	0.000	0.000
8/31/1999	5.22	54.02	10.35		74.88	339.85	0.00	0.000	0.000
9/30/1999	4.49	54.36	12.12		75.01	341.48	0.00	0.000	0.000
10/31/1999	4.28	53.29	12.44		75.15	343.13	0.00	0.000	0.000
11/30/1999	3.65	31.65	8.68	10.37	75.26	344.08	0.31	0.292	0.001
12/31/1999	4.43	61.94	13.99	36.10	75.39	346.00	1.43	0.541	0.003
1/31/2000	4.55	63.03	13.86	48.71	75.53	347.96	2.94	0.717	0.007
2/29/2000	4.46	64.13	14.38	48.72	75.66	349.82	4.35	0.707	0.010
3/31/2000	4.17	64.97	15.59	48.94	75.79	351.83	5.87	0.705	0.014
4/30/2000	3.57	64.30	17.99	48.63	75.90	353.76	7.33	0.714	0.017
5/31/2000	3.19	56.34	17.65	48.26	76.00	355.50	8.82	0.808	0.020
6/30/2000	4.58	72.52	15.82	50.00	76.14	357.68	10.32	0.646	0.024
7/31/2000	4.74	69.00	14.56	49.71	76.28	359.82	11.87	0.671	0.027
8/31/2000	4.76	65.72	13.80	48.90	76.43	361.86	13.38	0.691	0.030
9/30/2000	4.53	65.14	14.40	42.33	76.57	363.81	14.65	0.605	0.033
10/31/2000	4.13	65.48	15.87	47.74	76.69	365.84	16.13	0.683	0.036
11/30/2000	3.89	65.64	16.88	46.40	76.81	367.81	17.52	0.665	0.039
12/31/2000	4.14	65.59	15.85	44.29	76.94	369.84	18.90	0.633	0.042
1/31/2001	4.08	65.57	16.06	42.10	77.07	371.88	20.20	0.602	0.044
2/28/2001	4.24	68.97	16.26	53.82	77.18	373.81	21.71	0.732	0.048
3/31/2001	4.40	68.13	15.50	48.48	77.32	375.92	23.21	0.666	0.051
4/30/2001	4.39	69.37	15.78	50.77	77.45	378.00	24.73	0.685	0.054
5/31/2001	4.04	67.76	16.76	48.29	77.58	380.10	26.23	0.670	0.057
6/30/2001	3.68	68.22	18.55	46.53	77.69	382.15	27.63	0.645	0.059
7/31/2001	3.85	65.10	16.92	46.90	77.81	384.17	29.08	0.678	0.062
8/31/2001	3.95	66.37	16.78	46.23	77.93	386.22	30.52	0.655	0.065
9/30/2001	3.54	60.98	17.23	43.60	78.04	388.05	31.82	0.673	0.067
10/31/2001	3.87	66.28	17.14	42.16	78.16	390.11	33.13	0.599	0.070
11/30/2001	3.59	69.12	19.26	42.90	78.26	392.18	34.42	0.588	0.072
12/31/2001	3.41	68.29	20.02	43.58	78.37	394.30	35.77	0.606	0.075
1/31/2002	3.36	66.99	19.96	40.32	78.47	396.37	37.02	0.571	0.077
2/28/2002	3.32	64.33	19.40	35.93	78.57	398.18	38.02	0.529	0.079
3/31/2002	3.23	65.24	20.20	37.13	78.67	400.20	39.17	0.541	0.081
4/30/2002	3.06	64.20	20.99	40.07	78.76	402.12	40.38	0.594	0.083
5/31/2002	3.05	68.30	22.39	38.97	78.85	404.24	41.59	0.545	0.085
6/30/2002	3.01	66.89	22.21	36.83	78.94	406.25	42.69	0.525	0.087
7/31/2002	2.90	68.54	23.61	35.03	79.03	408.37	43.78	0.489	0.089
8/31/2002	2.82	70.74	25.05	40.10	79.12	410.57	45.02	0.544	0.091
9/30/2002	3.04	68.71	22.63	41.07	79.21	412.63	46.25	0.571	0.093
10/31/2002	2.85	68.33	23.96	40.84	79.30	414.75	47.52	0.572	0.095
11/30/2002	2.85	69.55	24.40	41.47	79.39	416.83	48.76	0.571	0.097
12/31/2002	2.81	69.73	24.82	40.52	79.47	418.99	50.02	0.557	0.099
1/31/2003	2.66	71.24	26.77	40.94	79.56	421.20	51.29	0.553	0.101
2/28/2003	2.67	70.30	26.37	41.07	79.63	423.17	52.44	0.561	0.103
3/31/2003	2.62	71.16	27.13	41.58	79.71	425.38	53.73	0.562	0.105
4/30/2003	2.53	71.79	28.34	42.50	79.79	427.53	55.00	0.570	0.107

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 Replacement Ratio
5/31/2003	2.71	72.28	26.66	47.45	79.87	429.77	56.47	0.631	0.110
6/30/2003	2.70	72.71	26.95	46.17	79.95	431.95	57.86	0.611	0.112
7/31/2003	2.91	73.76	25.32	47.61	80.04	434.24	59.33	0.619	0.114
8/31/2003	2.80	73.44	26.26	47.55	80.13	436.51	60.81	0.622	0.116
9/30/2003	2.57	68.89	26.79	39.87	80.21	438.58	62.00	0.557	0.118
10/31/2003	2.41	69.72	28.93	42.35	80.28	440.74	63.31	0.586	0.120
11/30/2003	2.50	71.14	28.49	42.20	80.36	442.88	64.58	0.572	0.122
12/31/2003	2.55	71.67	28.14	41.19	80.44	445.10	65.86	0.554	0.124
1/31/2004	2.19	69.65	31.80	38.42	80.50	447.26	67.05	0.534	0.126
2/29/2004	2.48	70.21	28.30	41.55	80.58	449.29	68.25	0.570	0.127
3/31/2004	2.35	68.51	29.17	42.81	80.65	451.42	69.58	0.603	0.129
4/30/2004	1.62	65.23	40.19	44.03	80.70	453.37	70.90	0.657	0.131
5/31/2004	1.48	58.63	39.68	35.74	80.74	455.19	72.01	0.594	0.133
6/30/2004	1.29	54.03	41.77	34.37	80.78	456.81	73.04	0.620	0.134
7/31/2004	1.13	51.58	45.82	28.42	80.82	458.41	73.92	0.538	0.136
8/31/2004	1.09	45.81	42.20	31.65	80.85	459.83	74.90	0.674	0.137
9/30/2004	1.25	53.12	42.38	39.17	80.89	461.43	76.08	0.719	0.139
10/31/2004	1.25	52.19	41.70	40.68	80.93	463.04	77.34	0.760	0.141
11/30/2004	1.19	51.16	42.99	41.63	80.96	464.58	78.59	0.794	0.143
12/31/2004	1.21	49.48	41.01	40.68	81.00	466.11	79.85	0.801	0.144
1/31/2005	1.22	48.74	39.97	36.45	81.04	467.62	80.98	0.728	0.146
2/28/2005	1.14	48.43	42.44	40.11	81.07	468.98	82.10	0.808	0.148
3/31/2005	1.12	49.30	44.11	36.35	81.10	470.51	83.23	0.720	0.149
4/30/2005	1.13	49.72	44.20	37.60	81.14	472.00	84.36	0.738	0.151
5/31/2005	1.04	47.93	46.07	38.00	81.17	473.49	85.53	0.775	0.153
6/30/2005	0.98	45.96	46.98	35.07	81.20	474.86	86.59	0.746	0.154
7/31/2005	0.98	45.89	46.72	36.87	81.23	476.29	87.73	0.786	0.156
8/31/2005	0.95	44.02	46.18	42.35	81.26	477.65	89.04	0.940	0.158
9/30/2005	0.92	42.04	45.53	34.17	81.29	478.91	90.07	0.794	0.159
10/31/2005	0.91	42.46	46.60	37.39	81.32	480.23	91.23	0.861	0.161
11/30/2005	0.92	44.27	48.38	37.43	81.34	481.56	92.35	0.827	0.162
12/31/2005	0.89	45.67	51.58	35.94	81.37	482.97	93.46	0.771	0.164
1/31/2006	0.86	45.34	52.84	35.35	81.40	484.38	94.56	0.764	0.165
2/28/2006	0.81	44.18	54.50	36.71	81.42	485.62	95.59	0.815	0.167
3/31/2006	0.83	42.25	50.67	30.65	81.45	486.93	96.54	0.710	0.168
4/30/2006	0.80	37.45	47.10	25.70	81.47	488.05	97.31	0.671	0.169
5/31/2006	0.87	38.88	44.81	28.00	81.50	489.25	98.18	0.703	0.170
6/30/2006	0.85	40.45	47.78	27.47	81.52	490.47	99.00	0.664	0.171
7/31/2006	0.81	40.74	50.02	30.55	81.55	491.73	99.95	0.734	0.173
8/31/2006	0.82	41.28	50.19	29.03	81.57	493.01	100.85	0.689	0.174
9/30/2006	0.78	39.41	50.75	26.40	81.60	494.19	101.64	0.656	0.175
10/31/2006	0.73	39.40	53.81	30.48	81.62	495.41	102.58	0.759	0.176
11/30/2006	0.80	40.72	51.11	28.70	81.64	496.64	103.45	0.690	0.177
12/31/2006	0.85	42.05	49.65	31.87	81.67	497.94	104.43	0.742	0.178
1/31/2007	0.80	41.72	52.04	33.10	81.69	499.23	105.46	0.777	0.180
2/28/2007	0.80	41.97	52.46	37.25	81.72	500.41	106.50	0.870	0.181
3/31/2007	0.81	42.69	52.83	33.87	81.74	501.73	107.55	0.778	0.183
4/30/2007	0.80	43.05	53.70	35.80	81.76	503.02	108.63	0.815	0.184
5/31/2007	0.80	42.70	53.16	35.29	81.79	504.35	109.72	0.810	0.185
6/30/2007	0.80	41.37	51.60	32.90	81.81	505.59	110.71	0.779	0.187
7/31/2007	0.76	42.70	55.85	31.48	81.84	506.91	111.68	0.724	0.188
8/31/2007	0.79	43.12	54.45	33.23	81.86	508.25	112.71	0.756	0.189
9/30/2007	0.82	41.38	50.36	26.70	81.89	509.49	113.52	0.632	0.190
10/31/2007	0.77	39.11	50.83	27.65	81.91	510.70	114.37	0.692	0.191

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11/30/2007	0.80	41.54	51.82	33.13	81.93	511.95	115.37	0.781	0.192
12/31/2007	0.73	40.35	55.35	32.52	81.96	513.20	116.37	0.791	0.194
1/31/2008	0.75	39.67	52.89	33.23	81.98	514.43	117.40	0.821	0.195
2/29/2008	0.78	39.74	50.99	33.28	82.00	515.58	118.37	0.820	0.196
3/31/2008	0.91	40.82	44.87	35.81	82.03	516.85	119.48	0.857	0.198
4/30/2008	0.96	41.23	42.95	35.40	82.06	518.08	120.54	0.838	0.199
5/31/2008	1.00	42.01	42.14	39.42	82.09	519.38	121.76	0.915	0.201
6/30/2008	1.04	43.74	42.06	35.60	82.12	520.70	122.83	0.794	0.202
7/31/2008	1.10	43.84	39.74	33.90	82.16	522.06	123.88	0.753	0.203
8/31/2008	1.05	43.40	41.20	36.90	82.19	523.40	125.03	0.829	0.205
9/30/2008	1.11	42.48	38.33	33.73	82.22	524.68	126.04	0.773	0.206
10/31/2008	1.05	41.10	39.02	33.03	82.25	525.95	127.06	0.782	0.207
11/30/2008	1.09	41.16	37.87	31.20	82.29	527.18	128.00	0.737	0.208
12/31/2008	0.92	36.79	40.09	36.35	82.32	528.33	129.13	0.963	0.209
1/31/2009	1.02	40.48	39.71	40.42	82.35	529.58	130.38	0.972	0.211
2/28/2009	1.03	39.65	38.55	40.43	82.38	530.69	131.51	0.992	0.213
3/31/2009	1.00	40.88	40.68	41.19	82.41	531.96	132.79	0.982	0.214
4/30/2009	1.04	40.64	39.02	38.50	82.44	533.18	133.94	0.922	0.216
5/31/2009	1.01	37.61	37.13	29.39	82.47	534.34	134.85	0.759	0.217
6/30/2009	1.02	39.06	38.24	26.17	82.50	535.51	135.64	0.652	0.217
7/31/2009	1.06	40.58	38.35	27.65	82.53	536.77	136.50	0.663	0.218
8/31/2009	1.04	40.22	38.78	26.55	82.57	538.02	137.32	0.642	0.219
9/30/2009	1.00	40.62	40.49	25.73	82.60	539.24	138.09	0.617	0.220
10/31/2009	1.00	39.99	39.80	28.00	82.63	540.48	138.96	0.682	0.221
11/30/2009	1.02	39.25	38.54	30.83	82.66	541.66	139.88	0.764	0.222
12/31/2009	1.03	39.40	38.23	31.48	82.69	542.88	140.86	0.777	0.223
1/31/2010	1.00	37.71	37.90	30.23	82.72	544.05	141.80	0.779	0.224
2/28/2010	1.03	38.10	36.85	29.82	82.75	545.11	142.63	0.761	0.225
3/31/2010	1.07	38.63	36.13	29.00	82.78	546.31	143.53	0.729	0.226
4/30/2010	1.03	38.45	37.45	27.10	82.81	547.46	144.34	0.685	0.227
5/31/2010	1.03	39.60	38.31	25.29	82.84	548.69	145.13	0.621	0.228
6/30/2010	0.95	38.37	40.18	28.67	82.87	549.84	145.99	0.728	0.229
7/31/2010	0.81	37.72	46.68	31.16	82.90	551.01	146.95	0.808	0.230
8/31/2010	0.92	39.15	42.74	30.19	82.93	552.23	147.89	0.752	0.231
9/30/2010	0.86	37.68	43.73	28.80	82.95	553.36	148.75	0.746	0.232
10/31/2010	0.86	37.20	43.11	27.10	82.98	554.51	149.59	0.711	0.233
11/30/2010	0.82	37.76	45.77	30.83	83.00	555.64	150.52	0.798	0.234
12/31/2010	0.83	37.21	45.06	31.81	83.03	556.80	151.50	0.835	0.235
1/31/2011	0.79	37.58	47.45	31.29	83.05	557.96	152.47	0.814	0.236
2/28/2011	0.81	37.98	46.64	31.86	83.08	559.02	153.37	0.820	0.237
3/31/2011	0.82	37.95	46.31	32.13	83.10	560.20	154.36	0.828	0.238
4/30/2011	0.51	23.95	46.65	22.27	83.12	560.92	155.03	0.909	0.239
5/31/2011	0.55	30.31	55.27	29.90	83.14	561.86	155.96	0.968	0.240
6/30/2011	0.66	36.69	55.45	34.10	83.16	562.96	156.98	0.912	0.241
7/31/2011	0.67	36.62	54.98	31.32	83.18	564.09	157.95	0.839	0.242
8/31/2011	0.52	31.44	60.17	32.71	83.19	565.07	158.97	1.022	0.243
9/30/2011	0.44	30.72	70.35	33.80	83.20	565.99	159.98	1.084	0.244
10/31/2011	0.39	30.40	77.56	34.68	83.22	566.93	161.05	1.125	0.246
11/30/2011	0.39	29.53	75.39	33.97	83.23	567.82	162.07	1.134	0.247
12/31/2011	0.40	32.49	81.21	33.77	83.24	568.83	163.12	1.026	0.248
1/31/2012	0.39	33.75	86.46	32.29	83.25	569.87	164.12	0.945	0.249
2/29/2012	0.10	5.41	56.04	33.03	83.26	570.03	165.08	5.991	0.250
3/31/2012	0.09	5.51	58.93	32.35	83.26	570.20	166.08	5.764	0.252
4/30/2012	0.10	5.63	59.25	30.23	83.26	570.37	166.99	5.276	0.253

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5/31/2012	0.09	5.45	60.34	28.21	83.26	570.54	167.86	5.085	0.255
6/30/2012	0.10	5.95	61.57	35.33	83.27	570.72	168.92	5.835	0.256
7/31/2012	0.10	24.89	257.17	32.87	83.27	571.49	169.94	1.315	0.257
8/31/2012	0.25	29.34	118.14	33.65	83.28	572.40	170.99	1.136	0.258
9/30/2012	0.29	29.70	102.43	36.67	83.29	573.29	172.09	1.222	0.260
10/31/2012	0.29	29.09	100.21	39.77	83.30	574.19	173.32	1.353	0.261
11/30/2012	0.29	28.47	98.18	42.47	83.30	575.04	174.59	1.475	0.263
12/31/2012	0.22	21.98	98.02	40.35	83.31	575.73	175.84	1.817	0.264
1/31/2013	0.27	31.03	113.85	38.52	83.32	576.69	177.04	1.230	0.266
2/28/2013	0.31	31.79	104.10	37.54	83.33	577.58	178.09	1.169	0.267
3/31/2013	0.30	29.31	99.30	37.42	83.34	578.49	179.25	1.263	0.268
4/30/2013	0.29	29.49	99.97	38.90	83.35	579.37	180.42	1.305	0.270
5/31/2013	0.27	26.91	98.73	34.48	83.36	580.21	181.48	1.268	0.271
6/30/2013	0.30	27.98	93.26	43.63	83.36	581.04	182.79	1.542	0.273
7/31/2013	0.29	27.63	95.16	44.61	83.37	581.90	184.18	1.597	0.274
8/31/2013	0.29	27.21	93.72	45.42	83.38	582.74	185.58	1.650	0.276
9/30/2013	0.29	26.34	89.28	45.30	83.39	583.53	186.94	1.700	0.278
10/31/2013	0.29	25.11	87.95	44.90	83.40	584.31	188.34	1.767	0.280
11/30/2013	0.28	26.09	93.18	45.30	83.41	585.10	189.69	1.716	0.281
12/31/2013	0.29	25.98	89.50	47.00	83.42	585.90	191.15	1.787	0.283
1/31/2014	0.30	25.90	87.75	46.84	83.43	586.70	192.60	1.787	0.285
2/28/2014	0.29	25.85	88.80	46.61	83.43	587.43	193.91	1.782	0.287
3/31/2014	0.29	25.27	88.03	42.74	83.44	588.21	195.23	1.671	0.288
4/30/2014	0.35	32.49	93.72	43.27	83.45	589.19	196.53	1.317	0.290
5/31/2014	0.35	33.02	93.05	45.77	83.46	590.21	197.95	1.371	0.291
6/30/2014	0.30	27.47	90.05	50.60	83.47	591.03	199.47	1.821	0.293
7/31/2014	0.25	23.56	95.48	31.00	83.48	591.76	200.43	1.301	0.294
8/31/2014	0.31	32.75	104.68	46.65	83.49	592.78	201.88	1.410	0.296
9/30/2014	0.30	32.55	107.30	49.73	83.50	593.76	203.37	1.513	0.298
10/31/2014	0.30	33.72	114.25	46.26	83.51	594.80	204.80	1.359	0.299
11/30/2014	0.29	33.41	114.53	48.03	83.52	595.80	206.24	1.425	0.301
12/31/2014	0.27	32.90	119.99	51.32	83.53	596.82	207.83	1.546	0.303
1/31/2015	0.30	34.71	115.71	49.58	83.54	597.90	209.37	1.415	0.305
2/28/2015	0.31	33.74	110.49	49.18	83.54	598.84	210.75	1.444	0.306
3/31/2015	0.29	31.91	111.79	47.97	83.55	599.83	212.23	1.489	0.308
4/30/2015	0.28	32.05	115.83	48.47	83.56	600.79	213.69	1.499	0.310
5/31/2015	0.30	32.10	105.29	41.90	83.57	601.79	214.99	1.292	0.311
6/30/2015	0.29	32.44	111.87	37.97	83.58	602.76	216.13	1.159	0.312
7/31/2015	0.29	32.19	111.50	43.48	83.59	603.76	217.47	1.338	0.314
8/31/2015	0.32	30.88	95.26	45.55	83.60	604.72	218.89	1.459	0.315
9/30/2015	0.37	30.49	83.15	47.10	83.61	605.63	220.30	1.525	0.317
10/31/2015	0.39	31.46	81.27	47.55	83.62	606.61	221.77	1.492	0.319
11/30/2015	0.37	29.61	80.04	47.67	83.63	607.50	223.20	1.588	0.320
12/31/2015	0.39	30.70	79.64	48.13	83.64	608.45	224.70	1.547	0.322
1/31/2016	0.38	31.55	83.97	47.26	83.66	609.43	226.16	1.479	0.324
2/29/2016	0.35	29.89	85.41	47.31	83.67	610.29	227.53	1.563	0.325
3/31/2016	0.31	27.21	87.88	45.35	83.68	611.14	228.94	1.647	0.327
4/30/2016	0.34	29.75	88.82	46.40	83.69	612.03	230.33	1.541	0.328
5/31/2016	0.34	30.75	89.92	45.87	83.70	612.98	231.75	1.474	0.330
6/30/2016	0.35	29.75	85.01	48.63	83.71	613.88	233.21	1.614	0.332
7/31/2016	0.33	31.29	93.72	49.84	83.72	614.85	234.76	1.575	0.333
8/31/2016	0.35	32.16	92.75	49.68	83.73	615.84	236.30	1.527	0.335
9/30/2016	0.35	32.99	94.26	49.00	83.74	616.83	237.77	1.469	0.337
10/31/2016	0.36	32.65	89.58	50.23	83.75	617.84	239.32	1.520	0.338

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11/30/2016	0.35	32.02	91.47	50.03	83.76	618.80	240.82	1.545	0.340
12/31/2016	0.35	33.41	95.91	47.61	83.77	619.84	242.30	1.409	0.342