

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

**ANNUAL REPORT FOR 2010**

**July 20, 2011**

**Tundra Oil and Gas Partnership**

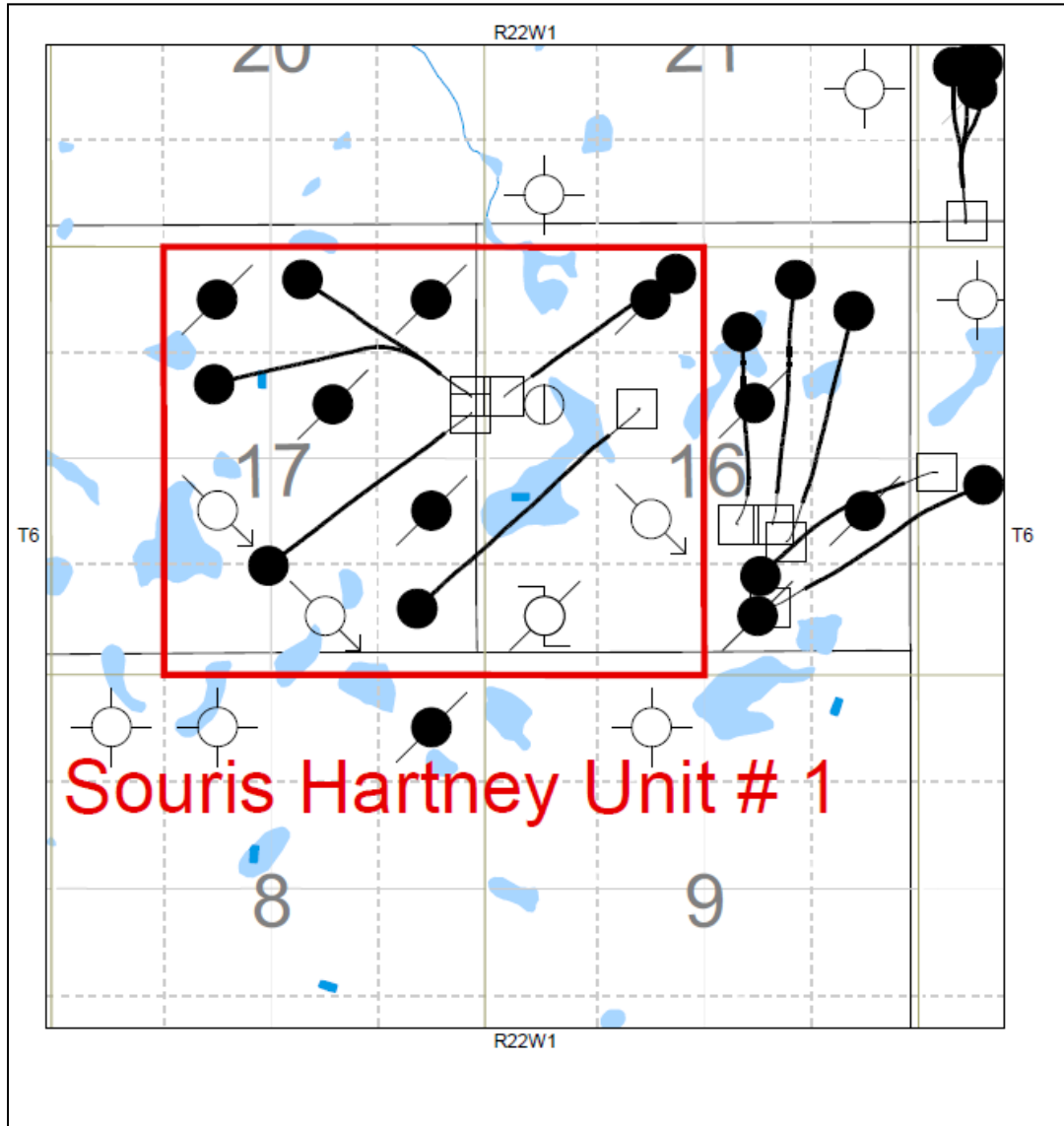
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## INTRODUCTION

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 2010 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 m<sup>3</sup>/d in February 1964. The water oil ratio (WOR) averaged 25 m<sup>3</sup>/m<sup>3</sup> over the last half of 2010. The Unit was producing 4.05 m<sup>3</sup>/d of oil and 97.2 m<sup>3</sup>/d of water, in December 2010. 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**

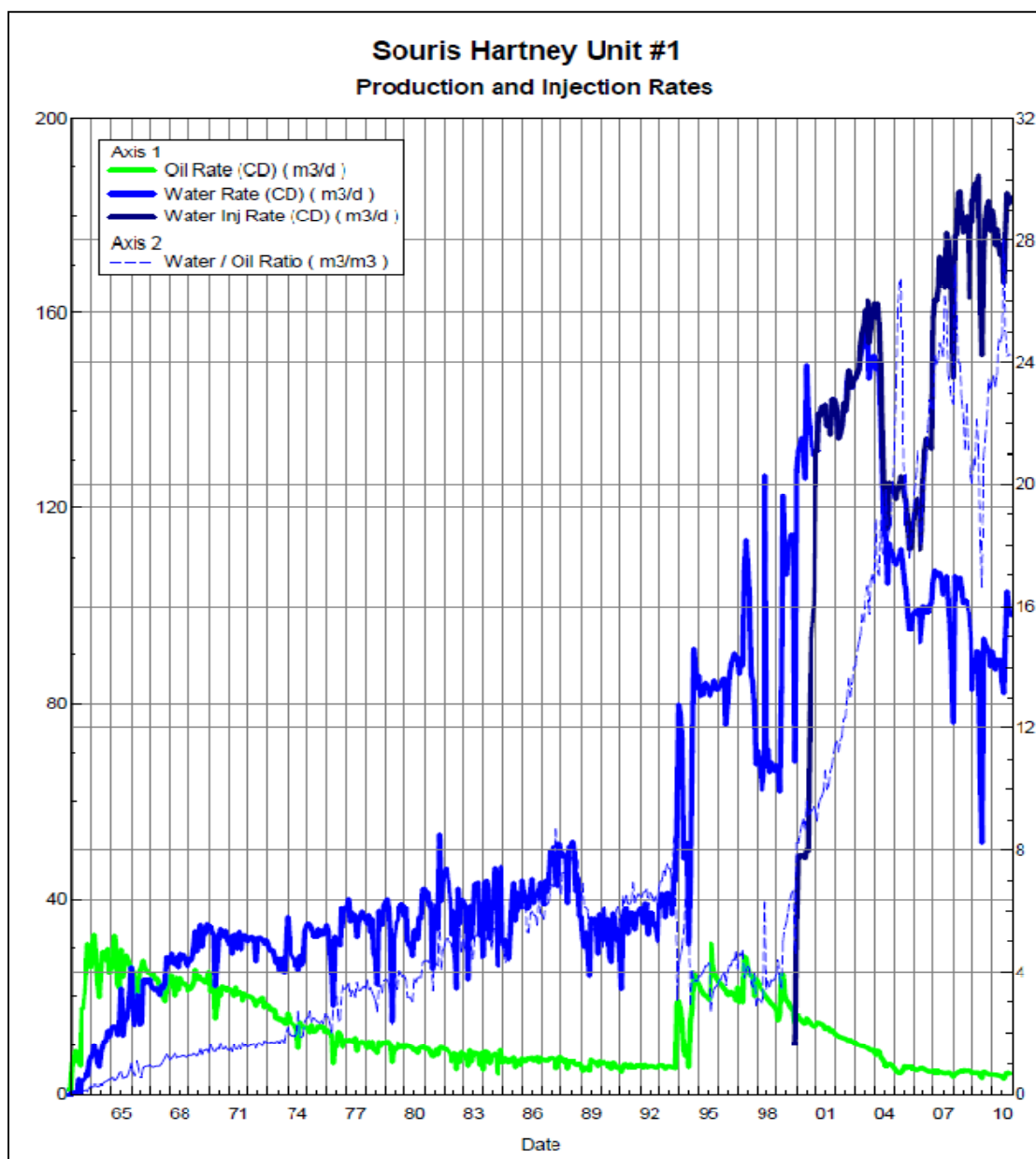
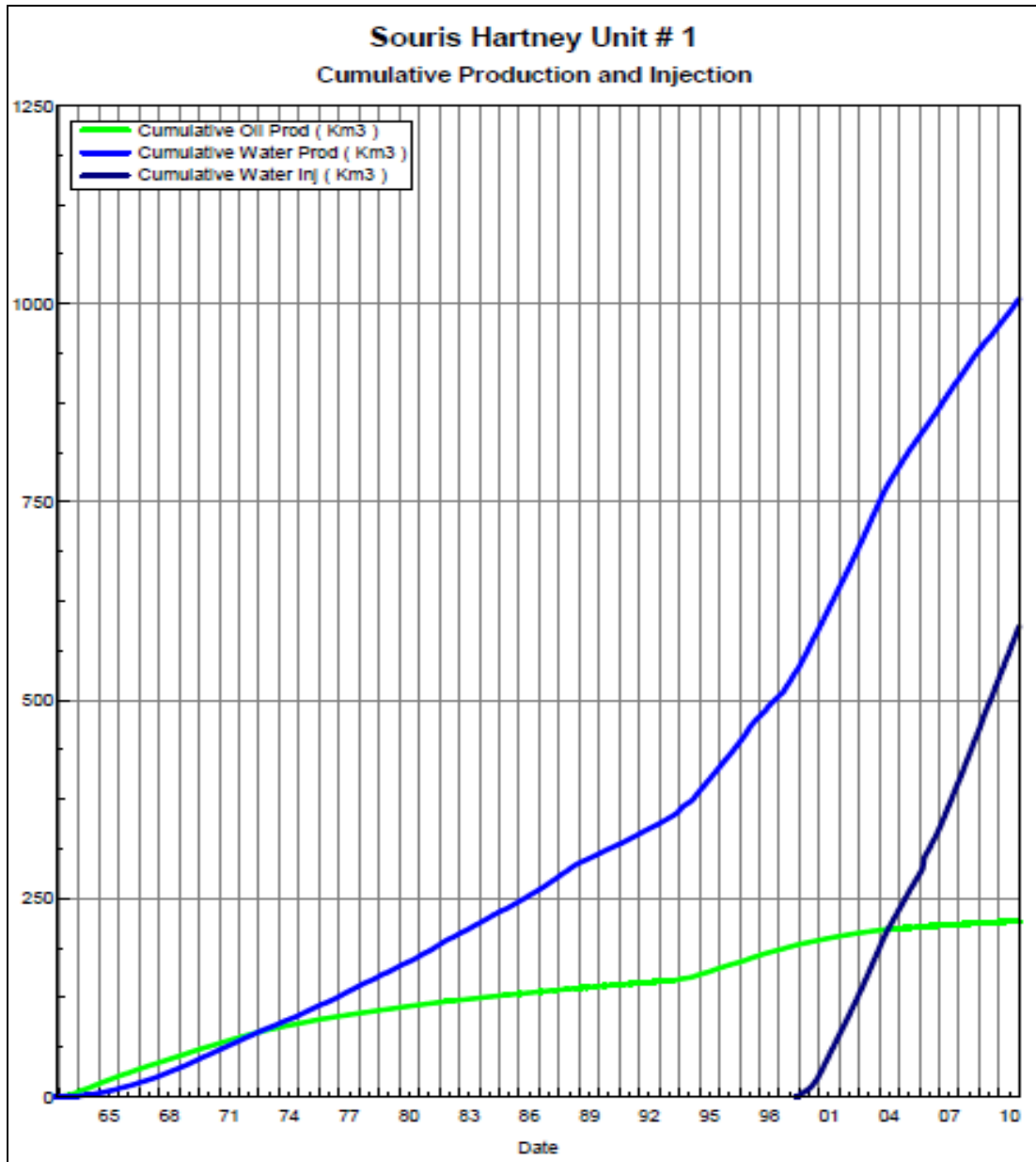


Figure 3 shows the cumulative production for Souris Hartney Unit No. 1 to the end of December 2010. In December 2010 cumulative production of oil was 222 E<sup>3</sup>m<sup>3</sup> and for water was 1007 E<sup>3</sup>m<sup>3</sup>. The cumulative water injected was 583 E<sup>3</sup>m<sup>3</sup>. The 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 2010 the 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 in 2010.

#### **Well Servicing**

The following table summarizes the well servicing performed within Souris Hartney Unit No. 1 during 2010:

**Table 1: Souris Hartney Unit No. 1 Well Servicing**

00/01-17-006-22W1	Pump Change	08/18/2010
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#### **Voidage Replacement**

Cumulative voidage for the Souris Hartney Unit No. 1 was 0.470 in December 2010. This is reasonable considering that the wells within the unit have been producing for almost forty years. As of 2006, monthly voidage is significantly greater than 1, which puts the Souris Hartney Unit No. 1 on track to achieve a cumulative VRR of 1. Calculation, plots and tables of the Voidage replacement ratio on a monthly and cumulative basis for each injection pattern and for the project area are presented in Appendix D.

## **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:

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

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

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		Resumed COOP
00/14-16-006-22W1/0		ABD Producer
02/14-16-006-22W1/0	12-16-006-22W1	Producer
00/01-17-006-22W1/0	11-16-006-22W1	Producer
00/02-17-006-22W1/0		WTR Injector
00/03-17-006-22W1/0	09-17-006-22W1	Producer
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

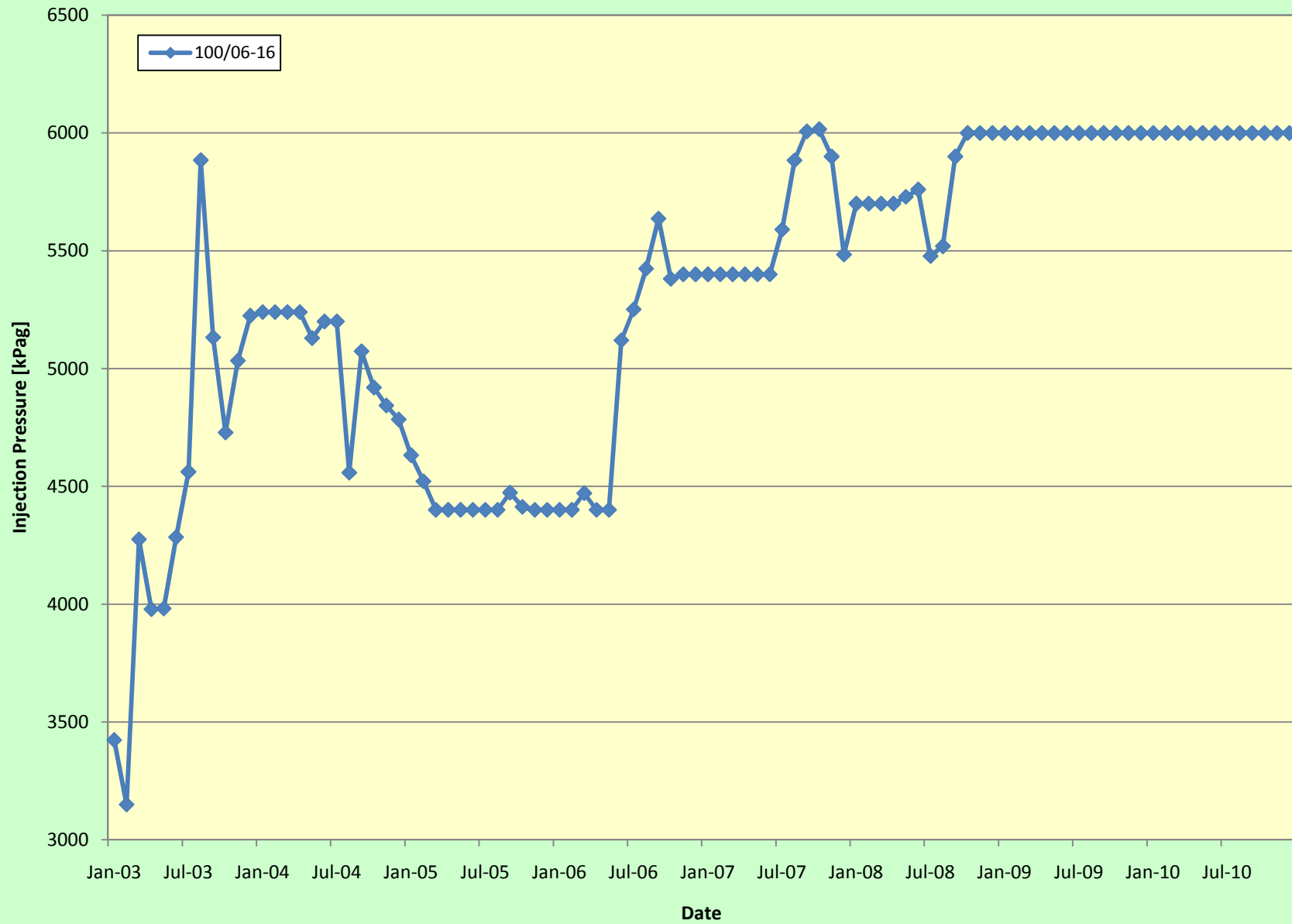
### Average Monthly Injection Pressure (kPag)

Month	Pattern		
	100/02-17	100/06-16	100/06-17
Jan-03		3423	4927
Feb-03	7316	3149	2538
Mar-03	7195	4275	3701
Apr-03	6897	3978	3550
May-03	7086	3981	3722
Jun-03	6936	4284	3662
Jul-03	6968	4562	3627
Aug-03	7435	5884	5034
Sep-03	7396	5132	3881
Oct-03	7502	4729	3913
Nov-03	7534	5033	3948
Dec-03	7480	5224	5737
Jan-04	7516	5240	7929
Feb-04	7516	5240	7929
Mar-04	7516	5240	7929
Apr-04	7522	5240	7958
May-04	7378	5129	7900
Jun-04	7770	5200	8205
Jul-04	7513	5200	7958
Aug-04	7571	4558	7948
Sep-04	8190	5073	8590
Oct-04	8150	4919	8563
Nov-04	7975	4843	8296
Dec-04	7992	4784	8060
Jan-05	7916	4632	8061
Feb-05	7800	4521	8012
Mar-05	7742	4400	7904
Apr-05	7433	4400	7390
May-05	7969	4400	7985
Jun-05	7806	4400	7852
Jul-05	7858	4400	7869
Aug-05	7803	4400	7702
Sep-05	7600	4473	7503
Oct-05	7598	4413	7534
Nov-05	7760	4400	7757
Dec-05	7687	4400	7687
Jan-06	7555	4400	7548
Feb-06	7657	4400	7636
Mar-06	7510	4471	7510
Apr-06	7553	4400	7543
May-06	7740	4400	7656
Jun-06	7789	5120	7707
Jul-06	7824	5252	7776
Aug-06	7574	5424	7542
Sep-06	7401	5637	7353
Oct-06	7571	5381	7520
Nov-06	7640	5400	7615
Dec-06	7638	5400	7648
Jan-07	7575	5400	7600
Feb-07	7522	5400	7506

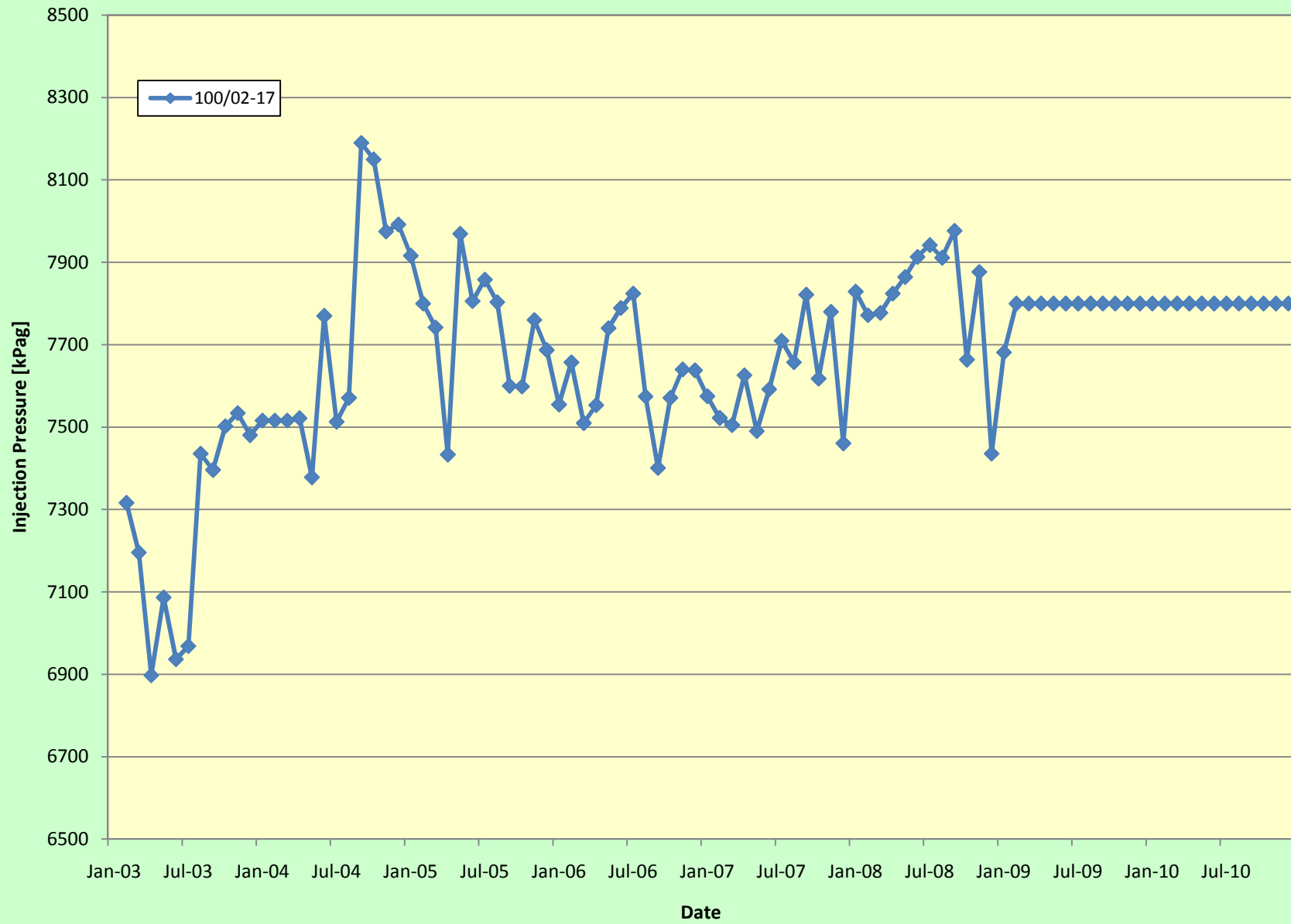
### Average Monthly Injection Pressure (kPag)

Month	Pattern		
	100/02-17	100/06-16	100/06-17
Mar-07	7505	5400	7422
Apr-07	7626	5400	7617
May-07	7490	5400	7452
Jun-07	7592	5400	7442
Jul-07	7710	5590	7656
Aug-07	7657	5884	7619
Sep-07	7822	6007	7855
Oct-07	7618	6016	7514
Nov-07	7780	5900	7785
Dec-07	7460	5484	7470
Jan-08	7829	5700	7889
Feb-08	7772	5700	7766
Mar-08	7777	5700	7781
Apr-08	7824	5700	7845
May-08	7865	5729	7849
Jun-08	7913	5760	7882
Jul-08	7942	5477	7935
Aug-08	7911	5519	7890
Sep-08	7977	5900	7983
Oct-08	7664	6000	7667
Nov-08	7877	6000	7919
Dec-08	7435	6000	7402
Jan-09	7681	6000	7677
Feb-09	7800	6000	7800
Mar-09	7800	6000	7800
Apr-09	7800	6000	7800
May-09	7800	6000	7800
Jun-09	7800	6000	7800
Jul-09	7800	6000	7800
Aug-09	7800	6000	7800
Sep-09	7800	6000	7800
Oct-09	7800	6000	7800
Nov-09	7800	6000	7800
Dec-09	7800	6000	7800
Jan-10	7800	6000	7800
Feb-10	7800	6000	7800
Mar-10	7800	6000	7800
Apr-10	7800	6000	7800
May-10	7800	6000	7800
Jun-10	7800	6000	7800
Jul-10	7800	6000	7800
Aug-10	7800	6000	7800
Sep-10	7800	6000	7800
Oct-10	7800	6000	7800
Nov-10	7800	6000	7800
Dec-10	7800	6000	7800

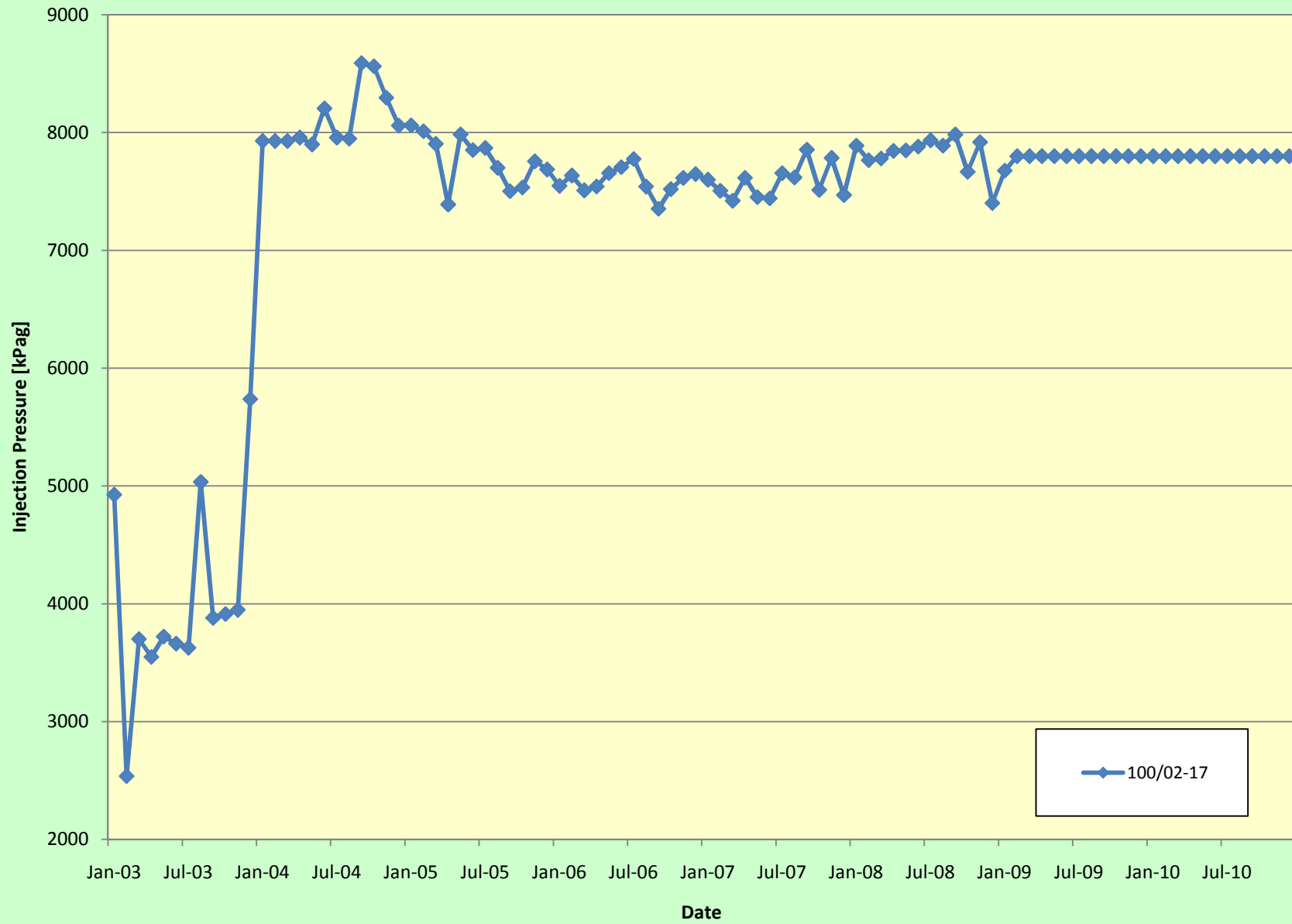
# 100/06-16 Injection Pressures vs Time



# 100/02-17 Injection Pressures vs Time



# 100/06-17 Injection Pressures vs Time



Pattern Name	Injector Location (006-22W1)	Status	Supported Wells (006-22W1)	No. of Support ed Wells	Allocation Factor	Pattern Prod Start Month	Inj Start Month	Oil Rate (m³/d)	Water Rate (m³/d)	WOR (m³/m³)	Water Injection (m³/d)	Cum Oil (E³m³)	Cum Water (E³m³)	Cum Inj Water (E³m³)	Monthly VRR	Cum VRR
00/02-17-006-22W1 Injector	00/02-17	WTR Injection	01-17 HZ (Surf 12-16), 03-17 HZ (Surf 9-17), 08-17	3	0.5	Sep 1963	Nov 2000	2.0	63.3	31.92	47.1	94.2	469.5	164.7	0.7	0.29
00/06-16-006-22W1 Injector	00/06-16	WTR Injection	1-17 HZ (Surf 12-16), 04-16, 12-16, 14-16, 02/14-16 HZ (Surf 11-16)	5	0.5	Jan 1963	Aug 2000	3.1	54.7	17.78	106.8	68.4	268.6	266.6	1.9	0.78
00/16-17-006-22W1 Injector	00/16-17	WTR Injection	03-17 HZ (Surf 9-17) , 10-17, 11-17 HZ (Surf 9-17), 14-17, 15-17 HZ (Surf 9-17), 16-17	6	0.5	Apr 1963	Nov 1999	1.0	42.5	43.57	31.8	97.3	649.4	151.5	0.7	0.20

## Appendix C

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
4/30/1965	22.20	12.16	0.55		19.63	6.18	0.00	0.000	0.000
5/31/1965	21.55	14.93	0.69		20.30	6.64	0.00	0.000	0.000
6/30/1965	29.62	21.40	0.72		21.19	7.28	0.00	0.000	0.000
7/31/1965	23.76	12.00	0.51		21.93	7.66	0.00	0.000	0.000
8/31/1965	27.96	15.16	0.54		22.79	8.13	0.00	0.000	0.000
9/30/1965	28.44	15.26	0.54		23.65	8.58	0.00	0.000	0.000
10/31/1965	27.47	16.88	0.61		24.50	9.11	0.00	0.000	0.000
11/30/1965	26.35	20.43	0.78		25.29	9.72	0.00	0.000	0.000
12/31/1965	25.71	25.96	1.01		26.08	10.53	0.00	0.000	0.000
1/31/1966	24.92	18.02	0.72		26.86	11.08	0.00	0.000	0.000
2/28/1966	24.12	14.21	0.59		27.53	11.48	0.00	0.000	0.000
3/31/1966	22.38	14.88	0.66		28.23	11.94	0.00	0.000	0.000
4/30/1966	18.44	20.15	1.09		28.78	12.55	0.00	0.000	0.000
5/31/1966	20.33	19.72	0.97		29.41	13.16	0.00	0.000	0.000
6/30/1966	25.21	14.31	0.57		30.17	13.59	0.00	0.000	0.000
7/31/1966	25.76	14.60	0.57		30.96	14.04	0.00	0.000	0.000
8/31/1966	27.33	23.12	0.85		31.81	14.76	0.00	0.000	0.000
9/30/1966	25.83	23.22	0.90		32.59	15.45	0.00	0.000	0.000
10/31/1966	25.31	23.22	0.92		33.37	16.17	0.00	0.000	0.000
11/30/1966	24.90	22.60	0.91		34.12	16.85	0.00	0.000	0.000
12/31/1966	24.59	23.31	0.95		34.88	17.57	0.00	0.000	0.000
1/31/1967	24.19	21.75	0.90		35.63	18.25	0.00	0.000	0.000
2/28/1967	24.65	21.54	0.87		36.32	18.85	0.00	0.000	0.000
3/31/1967	23.34	21.09	0.90		37.04	19.51	0.00	0.000	0.000
4/30/1967	23.52	21.52	0.91		37.75	20.15	0.00	0.000	0.000
5/31/1967	23.06	20.99	0.91		38.46	20.80	0.00	0.000	0.000
6/30/1967	21.63	20.08	0.93		39.11	21.40	0.00	0.000	0.000
7/31/1967	22.24	21.99	0.99		39.80	22.09	0.00	0.000	0.000
8/31/1967	19.69	21.48	1.09		40.41	22.75	0.00	0.000	0.000
9/30/1967	18.81	22.48	1.19		40.98	23.43	0.00	0.000	0.000
10/31/1967	21.46	28.11	1.31		41.64	24.30	0.00	0.000	0.000
11/30/1967	22.69	27.82	1.23		42.32	25.13	0.00	0.000	0.000
12/31/1967	24.03	26.81	1.12		43.07	25.96	0.00	0.000	0.000
1/31/1968	24.26	28.83	1.19		43.82	26.86	0.00	0.000	0.000
2/29/1968	22.13	27.35	1.24		44.46	27.65	0.00	0.000	0.000
3/31/1968	19.98	26.57	1.33		45.08	28.47	0.00	0.000	0.000
4/30/1968	23.58	28.05	1.19		45.79	29.31	0.00	0.000	0.000
5/31/1968	21.15	25.95	1.23		46.45	30.12	0.00	0.000	0.000
6/30/1968	23.55	28.80	1.22		47.15	30.98	0.00	0.000	0.000
7/31/1968	22.34	27.95	1.25		47.84	31.85	0.00	0.000	0.000
8/31/1968	22.56	28.55	1.27		48.54	32.73	0.00	0.000	0.000
9/30/1968	22.28	27.66	1.24		49.21	33.56	0.00	0.000	0.000
10/31/1968	22.06	26.59	1.20		49.90	34.39	0.00	0.000	0.000
11/30/1968	20.86	26.15	1.25		50.52	35.17	0.00	0.000	0.000
12/31/1968	21.88	27.75	1.27		51.20	36.03	0.00	0.000	0.000
1/31/1969	21.30	27.26	1.28		51.86	36.88	0.00	0.000	0.000
2/28/1969	21.86	27.88	1.28		52.47	37.66	0.00	0.000	0.000
3/31/1969	22.61	30.16	1.33		53.17	38.59	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
4/30/1969	25.45	33.17	1.30		53.94	39.59	0.00	0.000	0.000
5/31/1969	23.34	29.28	1.25		54.66	40.50	0.00	0.000	0.000
6/30/1969	24.24	32.21	1.33		55.39	41.46	0.00	0.000	0.000
7/31/1969	23.27	34.51	1.48		56.11	42.53	0.00	0.000	0.000
8/31/1969	23.36	30.22	1.29		56.83	43.47	0.00	0.000	0.000
9/30/1969	22.96	33.01	1.44		57.52	44.46	0.00	0.000	0.000
10/31/1969	22.59	32.64	1.44		58.22	45.47	0.00	0.000	0.000
11/30/1969	23.46	34.69	1.48		58.93	46.51	0.00	0.000	0.000
12/31/1969	25.04	34.06	1.36		59.70	47.57	0.00	0.000	0.000
1/31/1970	20.79	34.07	1.64		60.35	48.62	0.00	0.000	0.000
2/28/1970	21.72	32.91	1.51		60.95	49.55	0.00	0.000	0.000
3/31/1970	22.88	32.51	1.42		61.66	50.55	0.00	0.000	0.000
4/30/1970	15.55	21.91	1.41		62.13	51.21	0.00	0.000	0.000
5/31/1970	17.85	27.11	1.52		62.68	52.05	0.00	0.000	0.000
6/30/1970	21.45	31.74	1.48		63.33	53.00	0.00	0.000	0.000
7/31/1970	19.98	33.63	1.68		63.95	54.05	0.00	0.000	0.000
8/31/1970	21.91	32.88	1.50		64.63	55.07	0.00	0.000	0.000
9/30/1970	21.56	32.03	1.49		65.27	56.03	0.00	0.000	0.000
10/31/1970	21.28	33.28	1.56		65.93	57.06	0.00	0.000	0.000
11/30/1970	21.31	31.43	1.48		66.57	58.00	0.00	0.000	0.000
12/31/1970	21.26	30.73	1.45		67.23	58.95	0.00	0.000	0.000
1/31/1971	21.18	32.08	1.51		67.89	59.95	0.00	0.000	0.000
2/28/1971	20.66	28.81	1.39		68.47	60.75	0.00	0.000	0.000
3/31/1971	19.89	32.45	1.63		69.08	61.76	0.00	0.000	0.000
4/30/1971	21.68	32.32	1.49		69.73	62.73	0.00	0.000	0.000
5/31/1971	20.18	29.81	1.48		70.36	63.65	0.00	0.000	0.000
6/30/1971	20.60	32.93	1.60		70.98	64.64	0.00	0.000	0.000
7/31/1971	20.60	33.10	1.61		71.62	65.67	0.00	0.000	0.000
8/31/1971	20.04	29.67	1.48		72.24	66.59	0.00	0.000	0.000
9/30/1971	18.97	32.18	1.70		72.81	67.55	0.00	0.000	0.000
10/31/1971	20.43	32.42	1.59		73.44	68.56	0.00	0.000	0.000
11/30/1971	19.77	32.09	1.62		74.03	69.52	0.00	0.000	0.000
12/31/1971	19.93	31.09	1.56		74.65	70.49	0.00	0.000	0.000
1/31/1972	19.77	31.52	1.59		75.26	71.46	0.00	0.000	0.000
2/29/1972	19.67	32.05	1.63		75.83	72.39	0.00	0.000	0.000
3/31/1972	19.53	31.94	1.64		76.44	73.38	0.00	0.000	0.000
4/30/1972	18.95	31.68	1.67		77.01	74.33	0.00	0.000	0.000
5/31/1972	17.90	27.23	1.52		77.56	75.18	0.00	0.000	0.000
6/30/1972	18.96	31.62	1.67		78.13	76.13	0.00	0.000	0.000
7/31/1972	18.72	31.89	1.70		78.71	77.11	0.00	0.000	0.000
8/31/1972	19.34	31.75	1.64		79.31	78.10	0.00	0.000	0.000
9/30/1972	19.51	31.29	1.60		79.90	79.04	0.00	0.000	0.000
10/31/1972	17.51	30.87	1.76		80.44	79.99	0.00	0.000	0.000
11/30/1972	18.16	31.39	1.73		80.98	80.94	0.00	0.000	0.000
12/31/1972	18.01	30.64	1.70		81.54	81.89	0.00	0.000	0.000
1/31/1973	17.68	29.79	1.69		82.09	82.81	0.00	0.000	0.000
2/28/1973	16.93	29.30	1.73		82.56	83.63	0.00	0.000	0.000
3/31/1973	17.06	29.56	1.73		83.09	84.55	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
4/30/1973	17.11	28.42	1.66		83.61	85.40	0.00	0.000	0.000
5/31/1973	15.51	26.85	1.73		84.09	86.23	0.00	0.000	0.000
6/30/1973	15.83	27.78	1.75		84.56	87.06	0.00	0.000	0.000
7/31/1973	15.19	25.26	1.66		85.03	87.85	0.00	0.000	0.000
8/31/1973	15.57	27.83	1.79		85.52	88.71	0.00	0.000	0.000
9/30/1973	15.11	27.04	1.79		85.97	89.52	0.00	0.000	0.000
10/31/1973	14.64	24.77	1.69		86.42	90.29	0.00	0.000	0.000
11/30/1973	14.47	29.65	2.05		86.86	91.18	0.00	0.000	0.000
12/31/1973	16.31	36.10	2.21		87.36	92.30	0.00	0.000	0.000
1/31/1974	15.76	31.46	2.00		87.85	93.27	0.00	0.000	0.000
2/28/1974	14.88	28.98	1.95		88.27	94.08	0.00	0.000	0.000
3/31/1974	14.50	28.15	1.94		88.72	94.96	0.00	0.000	0.000
4/30/1974	14.31	27.81	1.94		89.15	95.79	0.00	0.000	0.000
5/31/1974	13.84	26.43	1.91		89.58	96.61	0.00	0.000	0.000
6/30/1974	13.77	27.65	2.01		89.99	97.44	0.00	0.000	0.000
7/31/1974	9.38	25.33	2.70		90.28	98.22	0.00	0.000	0.000
8/31/1974	14.77	28.33	1.92		90.74	99.10	0.00	0.000	0.000
9/30/1974	14.00	26.45	1.89		91.16	99.90	0.00	0.000	0.000
10/31/1974	13.96	27.08	1.94		91.59	100.74	0.00	0.000	0.000
11/30/1974	13.71	33.08	2.41		92.00	101.73	0.00	0.000	0.000
12/31/1974	13.63	34.30	2.52		92.42	102.79	0.00	0.000	0.000
1/31/1975	13.66	34.82	2.55		92.85	103.87	0.00	0.000	0.000
2/28/1975	12.71	34.47	2.71		93.20	104.84	0.00	0.000	0.000
3/31/1975	14.18	33.86	2.39		93.64	105.89	0.00	0.000	0.000
4/30/1975	12.94	32.71	2.53		94.03	106.87	0.00	0.000	0.000
5/31/1975	12.85	32.11	2.50		94.43	107.86	0.00	0.000	0.000
6/30/1975	13.28	32.12	2.42		94.83	108.83	0.00	0.000	0.000
7/31/1975	13.98	33.62	2.40		95.26	109.87	0.00	0.000	0.000
8/31/1975	13.74	32.31	2.35		95.69	110.87	0.00	0.000	0.000
9/30/1975	13.73	33.35	2.43		96.10	111.87	0.00	0.000	0.000
10/31/1975	13.88	32.48	2.34		96.53	112.88	0.00	0.000	0.000
11/30/1975	12.80	33.38	2.61		96.91	113.88	0.00	0.000	0.000
12/31/1975	13.28	34.46	2.59		97.32	114.95	0.00	0.000	0.000
1/31/1976	12.93	32.99	2.55		97.73	115.97	0.00	0.000	0.000
2/29/1976	12.47	28.96	2.32		98.09	116.81	0.00	0.000	0.000
3/31/1976	12.14	24.82	2.04		98.46	117.58	0.00	0.000	0.000
4/30/1976	6.19	17.89	2.89		98.65	118.12	0.00	0.000	0.000
5/31/1976	10.52	32.09	3.05		98.98	119.11	0.00	0.000	0.000
6/30/1976	9.74	31.10	3.19		99.27	120.04	0.00	0.000	0.000
7/31/1976	12.77	30.80	2.41		99.66	121.00	0.00	0.000	0.000
8/31/1976	12.28	30.53	2.49		100.04	121.94	0.00	0.000	0.000
9/30/1976	11.56	38.12	3.30		100.39	123.09	0.00	0.000	0.000
10/31/1976	9.57	33.96	3.55		100.69	124.14	0.00	0.000	0.000
11/30/1976	10.84	37.33	3.44		101.01	125.26	0.00	0.000	0.000
12/31/1976	11.17	38.35	3.43		101.36	126.45	0.00	0.000	0.000
1/31/1977	10.86	38.07	3.50		101.70	127.63	0.00	0.000	0.000
2/28/1977	11.08	40.04	3.61		102.01	128.75	0.00	0.000	0.000
3/31/1977	11.04	35.18	3.19		102.35	129.84	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
4/30/1977	10.95	37.12	3.39		102.68	130.95	0.00	0.000	0.000
5/31/1977	10.66	35.33	3.31		103.01	132.05	0.00	0.000	0.000
6/30/1977	11.57	36.56	3.16		103.36	133.15	0.00	0.000	0.000
7/31/1977	8.75	31.98	3.65		103.63	134.14	0.00	0.000	0.000
8/31/1977	10.45	35.34	3.38		103.95	135.23	0.00	0.000	0.000
9/30/1977	10.54	35.57	3.38		104.27	136.30	0.00	0.000	0.000
10/31/1977	10.77	37.25	3.46		104.60	137.46	0.00	0.000	0.000
11/30/1977	10.32	36.31	3.52		104.91	138.54	0.00	0.000	0.000
12/31/1977	10.47	36.14	3.45		105.23	139.67	0.00	0.000	0.000
1/31/1978	9.33	34.73	3.72		105.52	140.74	0.00	0.000	0.000
2/28/1978	10.74	36.56	3.40		105.82	141.77	0.00	0.000	0.000
3/31/1978	9.48	32.99	3.48		106.12	142.79	0.00	0.000	0.000
4/30/1978	10.74	35.69	3.32		106.44	143.86	0.00	0.000	0.000
5/31/1978	9.00	28.81	3.20		106.72	144.75	0.00	0.000	0.000
6/30/1978	9.25	28.28	3.06		107.00	145.60	0.00	0.000	0.000
7/31/1978	8.31	22.28	2.68		107.25	146.29	0.00	0.000	0.000
8/31/1978	10.66	37.41	3.51		107.59	147.45	0.00	0.000	0.000
9/30/1978	9.82	34.80	3.54		107.88	148.49	0.00	0.000	0.000
10/31/1978	10.41	34.47	3.31		108.20	149.56	0.00	0.000	0.000
11/30/1978	10.49	38.71	3.69		108.52	150.72	0.00	0.000	0.000
12/31/1978	10.49	39.36	3.75		108.84	151.94	0.00	0.000	0.000
1/31/1979	10.78	40.00	3.71		109.18	153.19	0.00	0.000	0.000
2/28/1979	10.57	37.94	3.59		109.47	154.25	0.00	0.000	0.000
3/31/1979	10.05	31.35	3.12		109.78	155.22	0.00	0.000	0.000
4/30/1979	6.47	14.98	2.32		109.98	155.67	0.00	0.000	0.000
5/31/1979	9.54	31.53	3.31		110.27	156.65	0.00	0.000	0.000
6/30/1979	8.92	31.74	3.56		110.54	157.60	0.00	0.000	0.000
7/31/1979	8.96	34.93	3.90		110.82	158.68	0.00	0.000	0.000
8/31/1979	10.37	35.67	3.44		111.14	159.79	0.00	0.000	0.000
9/30/1979	9.45	38.30	4.05		111.42	160.94	0.00	0.000	0.000
10/31/1979	9.82	38.78	3.95		111.73	162.14	0.00	0.000	0.000
11/30/1979	10.12	38.78	3.83		112.03	163.30	0.00	0.000	0.000
12/31/1979	9.38	36.29	3.87		112.32	164.43	0.00	0.000	0.000
1/31/1980	10.15	38.09	3.75		112.64	165.61	0.00	0.000	0.000
2/29/1980	9.86	31.07	3.15		112.92	166.51	0.00	0.000	0.000
3/31/1980	9.65	30.61	3.17		113.22	167.46	0.00	0.000	0.000
4/30/1980	9.71	30.27	3.12		113.51	168.37	0.00	0.000	0.000
5/31/1980	9.39	28.33	3.02		113.81	169.24	0.00	0.000	0.000
6/30/1980	8.83	33.29	3.77		114.07	170.24	0.00	0.000	0.000
7/31/1980	9.20	33.52	3.64		114.36	171.28	0.00	0.000	0.000
8/31/1980	8.30	31.53	3.80		114.61	172.26	0.00	0.000	0.000
9/30/1980	9.47	36.08	3.81		114.90	173.34	0.00	0.000	0.000
10/31/1980	9.41	35.82	3.81		115.19	174.45	0.00	0.000	0.000
11/30/1980	9.72	42.03	4.33		115.48	175.71	0.00	0.000	0.000
12/31/1980	9.61	42.23	4.39		115.78	177.02	0.00	0.000	0.000
1/31/1981	9.15	40.03	4.38		116.06	178.26	0.00	0.000	0.000
2/28/1981	9.42	41.50	4.41		116.33	179.42	0.00	0.000	0.000
3/31/1981	8.89	38.42	4.32		116.60	180.62	0.00	0.000	0.000

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4/30/1981	8.21	39.20	4.77		116.85	181.79	0.00	0.000	0.000
5/31/1981	7.60	25.65	3.37		117.08	182.59	0.00	0.000	0.000
6/30/1981	7.79	35.23	4.52		117.32	183.64	0.00	0.000	0.000
7/31/1981	9.03	38.74	4.29		117.60	184.84	0.00	0.000	0.000
8/31/1981	7.96	33.65	4.23		117.84	185.89	0.00	0.000	0.000
9/30/1981	9.32	53.35	5.72		118.12	187.49	0.00	0.000	0.000
10/31/1981	9.67	39.65	4.10		118.42	188.72	0.00	0.000	0.000
11/30/1981	9.38	44.33	4.72		118.70	190.05	0.00	0.000	0.000
12/31/1981	9.27	45.26	4.88		118.99	191.45	0.00	0.000	0.000
1/31/1982	9.09	46.06	5.07		119.27	192.88	0.00	0.000	0.000
2/28/1982	8.96	45.71	5.10		119.52	194.16	0.00	0.000	0.000
3/31/1982	8.76	43.45	4.96		119.80	195.50	0.00	0.000	0.000
4/30/1982	7.90	39.37	4.98		120.03	196.69	0.00	0.000	0.000
5/31/1982	6.61	32.52	4.92		120.24	197.69	0.00	0.000	0.000
6/30/1982	8.14	37.37	4.59		120.48	198.81	0.00	0.000	0.000
7/31/1982	8.26	35.26	4.27		120.74	199.91	0.00	0.000	0.000
8/31/1982	4.93	21.45	4.35		120.89	200.57	0.00	0.000	0.000
9/30/1982	7.95	42.20	5.31		121.13	201.84	0.00	0.000	0.000
10/31/1982	6.43	34.77	5.41		121.33	202.92	0.00	0.000	0.000
11/30/1982	8.51	39.90	4.69		121.58	204.11	0.00	0.000	0.000
12/31/1982	7.87	39.74	5.05		121.83	205.35	0.00	0.000	0.000
1/31/1983	8.04	38.58	4.80		122.08	206.54	0.00	0.000	0.000
2/28/1983	7.48	38.14	5.10		122.29	207.61	0.00	0.000	0.000
3/31/1983	5.63	23.26	4.13		122.46	208.33	0.00	0.000	0.000
4/30/1983	8.92	38.57	4.33		122.73	209.49	0.00	0.000	0.000
5/31/1983	6.54	31.77	4.86		122.93	210.47	0.00	0.000	0.000
6/30/1983	8.40	37.40	4.45		123.18	211.59	0.00	0.000	0.000
7/31/1983	8.33	43.10	5.17		123.44	212.93	0.00	0.000	0.000
8/31/1983	8.37	43.19	5.16		123.70	214.27	0.00	0.000	0.000
9/30/1983	7.96	43.43	5.45		123.94	215.57	0.00	0.000	0.000
10/31/1983	5.84	32.29	5.53		124.12	216.57	0.00	0.000	0.000
11/30/1983	8.38	37.43	4.47		124.37	217.70	0.00	0.000	0.000
12/31/1983	4.81	28.26	5.87		124.52	218.57	0.00	0.000	0.000
1/31/1984	8.69	43.52	5.01		124.79	219.92	0.00	0.000	0.000
2/29/1984	8.58	43.86	5.11		125.04	221.19	0.00	0.000	0.000
3/31/1984	8.28	41.90	5.06		125.30	222.49	0.00	0.000	0.000
4/30/1984	6.14	31.60	5.15		125.48	223.44	0.00	0.000	0.000
5/31/1984	7.76	37.00	4.77		125.72	224.59	0.00	0.000	0.000
6/30/1984	7.68	39.60	5.16		125.95	225.78	0.00	0.000	0.000
7/31/1984	8.19	46.19	5.64		126.21	227.21	0.00	0.000	0.000
8/31/1984	7.72	44.87	5.81		126.44	228.60	0.00	0.000	0.000
9/30/1984	4.05	26.36	6.50		126.57	229.39	0.00	0.000	0.000
10/31/1984	8.95	41.35	4.62		126.84	230.67	0.00	0.000	0.000
11/30/1984	9.00	46.47	5.16		127.11	232.07	0.00	0.000	0.000
12/31/1984	6.31	31.03	4.92		127.31	233.03	0.00	0.000	0.000
1/31/1985	6.52	30.74	4.71		127.51	233.98	0.00	0.000	0.000
2/28/1985	7.28	31.46	4.32		127.72	234.86	0.00	0.000	0.000
3/31/1985	6.64	29.35	4.42		127.92	235.77	0.00	0.000	0.000

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4/30/1985	6.32	27.77	4.39		128.11	236.60	0.00	0.000	0.000
5/31/1985	7.05	32.61	4.63		128.33	237.62	0.00	0.000	0.000
6/30/1985	6.64	39.40	5.94		128.53	238.80	0.00	0.000	0.000
7/31/1985	7.41	43.35	5.85		128.76	240.14	0.00	0.000	0.000
8/31/1985	5.35	35.39	6.61		128.92	241.24	0.00	0.000	0.000
9/30/1985	6.62	41.40	6.25		129.12	242.48	0.00	0.000	0.000
10/31/1985	6.80	40.58	5.96		129.33	243.74	0.00	0.000	0.000
11/30/1985	5.83	38.17	6.55		129.51	244.88	0.00	0.000	0.000
12/31/1985	7.19	43.87	6.10		129.73	246.24	0.00	0.000	0.000
1/31/1986	6.76	41.15	6.09		129.94	247.52	0.00	0.000	0.000
2/28/1986	6.54	40.70	6.22		130.12	248.66	0.00	0.000	0.000
3/31/1986	7.15	37.84	5.30		130.34	249.83	0.00	0.000	0.000
4/30/1986	7.20	38.10	5.29		130.56	250.98	0.00	0.000	0.000
5/31/1986	6.96	41.29	5.93		130.78	252.26	0.00	0.000	0.000
6/30/1986	7.39	44.17	5.98		131.00	253.58	0.00	0.000	0.000
7/31/1986	6.68	39.23	5.87		131.21	254.80	0.00	0.000	0.000
8/31/1986	7.01	40.94	5.84		131.42	256.07	0.00	0.000	0.000
9/30/1986	7.45	41.13	5.52		131.65	257.30	0.00	0.000	0.000
10/31/1986	6.35	41.68	6.56		131.84	258.59	0.00	0.000	0.000
11/30/1986	7.33	43.43	5.93		132.06	259.89	0.00	0.000	0.000
12/31/1986	6.88	40.39	5.87		132.28	261.15	0.00	0.000	0.000
1/31/1987	6.78	38.87	5.73		132.49	262.35	0.00	0.000	0.000
2/28/1987	6.93	43.86	6.33		132.68	263.58	0.00	0.000	0.000
3/31/1987	6.65	41.52	6.24		132.89	264.87	0.00	0.000	0.000
4/30/1987	6.97	44.17	6.33		133.10	266.19	0.00	0.000	0.000
5/31/1987	7.27	49.55	6.81		133.32	267.73	0.00	0.000	0.000
6/30/1987	7.18	49.57	6.91		133.54	269.21	0.00	0.000	0.000
7/31/1987	7.26	50.61	6.97		133.76	270.78	0.00	0.000	0.000
8/31/1987	7.02	48.00	6.84		133.98	272.27	0.00	0.000	0.000
9/30/1987	5.10	44.57	8.73		134.13	273.61	0.00	0.000	0.000
10/31/1987	5.48	42.77	7.80		134.30	274.93	0.00	0.000	0.000
11/30/1987	7.51	51.27	6.83		134.53	276.47	0.00	0.000	0.000
12/31/1987	7.36	48.58	6.60		134.76	277.98	0.00	0.000	0.000
1/31/1988	6.80	49.32	7.25		134.97	279.51	0.00	0.000	0.000
2/29/1988	6.68	48.48	7.26		135.16	280.91	0.00	0.000	0.000
3/31/1988	6.68	48.71	7.29		135.37	282.42	0.00	0.000	0.000
4/30/1988	5.04	39.20	7.78		135.52	283.60	0.00	0.000	0.000
5/31/1988	6.39	50.61	7.92		135.72	285.17	0.00	0.000	0.000
6/30/1988	6.60	50.57	7.66		135.91	286.69	0.00	0.000	0.000
7/31/1988	6.60	51.68	7.83		136.12	288.29	0.00	0.000	0.000
8/31/1988	6.15	49.52	8.05		136.31	289.82	0.00	0.000	0.000
9/30/1988	5.94	41.67	7.01		136.49	291.07	0.00	0.000	0.000
10/31/1988	5.79	44.52	7.68		136.67	292.45	0.00	0.000	0.000
11/30/1988	6.11	36.40	5.96		136.85	293.54	0.00	0.000	0.000
12/31/1988	5.66	36.19	6.39		137.03	294.67	0.00	0.000	0.000
1/31/1989	4.57	31.74	6.94		137.17	295.65	0.00	0.000	0.000
2/28/1989	4.91	30.18	6.15		137.31	296.50	0.00	0.000	0.000
3/31/1989	5.40	32.97	6.11		137.47	297.52	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
4/30/1989	4.90	29.57	6.04		137.62	298.40	0.00	0.000	0.000
5/31/1989	4.62	24.03	5.20		137.76	299.15	0.00	0.000	0.000
6/30/1989	6.93	35.90	5.18		137.97	300.23	0.00	0.000	0.000
7/31/1989	6.50	34.84	5.36		138.17	301.31	0.00	0.000	0.000
8/31/1989	6.46	35.84	5.55		138.37	302.42	0.00	0.000	0.000
9/30/1989	6.27	35.10	5.60		138.56	303.47	0.00	0.000	0.000
10/31/1989	5.55	28.81	5.19		138.73	304.36	0.00	0.000	0.000
11/30/1989	6.59	36.70	5.57		138.93	305.46	0.00	0.000	0.000
12/31/1989	5.99	35.25	5.88		139.12	306.56	0.00	0.000	0.000
1/31/1990	6.45	31.28	4.85		139.32	307.53	0.00	0.000	0.000
2/28/1990	6.43	37.86	5.89		139.50	308.59	0.00	0.000	0.000
3/31/1990	6.22	35.11	5.65		139.69	309.67	0.00	0.000	0.000
4/30/1990	5.57	30.77	5.52		139.86	310.60	0.00	0.000	0.000
5/31/1990	6.22	35.72	5.75		140.05	311.71	0.00	0.000	0.000
6/30/1990	5.29	28.31	5.35		140.21	312.55	0.00	0.000	0.000
7/31/1990	5.02	27.06	5.40		140.36	313.39	0.00	0.000	0.000
8/31/1990	6.34	36.90	5.82		140.56	314.54	0.00	0.000	0.000
9/30/1990	6.12	35.83	5.86		140.74	315.61	0.00	0.000	0.000
10/31/1990	5.18	31.30	6.04		140.90	316.58	0.00	0.000	0.000
11/30/1990	5.46	33.63	6.16		141.07	317.59	0.00	0.000	0.000
12/31/1990	5.11	28.90	5.65		141.23	318.49	0.00	0.000	0.000
1/31/1991	4.37	21.33	4.88		141.36	319.15	0.00	0.000	0.000
2/28/1991	5.54	36.13	6.53		141.52	320.16	0.00	0.000	0.000
3/31/1991	6.00	37.73	6.29		141.70	321.33	0.00	0.000	0.000
4/30/1991	5.81	38.05	6.55		141.88	322.47	0.00	0.000	0.000
5/31/1991	5.23	32.70	6.25		142.04	323.49	0.00	0.000	0.000
6/30/1991	5.92	37.05	6.26		142.22	324.60	0.00	0.000	0.000
7/31/1991	5.81	37.01	6.37		142.40	325.74	0.00	0.000	0.000
8/31/1991	5.30	36.95	6.98		142.56	326.89	0.00	0.000	0.000
9/30/1991	5.32	33.55	6.31		142.72	327.90	0.00	0.000	0.000
10/31/1991	5.61	36.37	6.49		142.89	329.02	0.00	0.000	0.000
11/30/1991	5.62	37.11	6.60		143.06	330.14	0.00	0.000	0.000
12/31/1991	5.79	37.82	6.53		143.24	331.31	0.00	0.000	0.000
1/31/1992	5.86	38.04	6.49		143.42	332.49	0.00	0.000	0.000
2/29/1992	5.24	34.88	6.65		143.58	333.50	0.00	0.000	0.000
3/31/1992	5.88	39.20	6.66		143.76	334.71	0.00	0.000	0.000
4/30/1992	5.33	35.97	6.75		143.92	335.79	0.00	0.000	0.000
5/31/1992	5.39	32.48	6.02		144.09	336.80	0.00	0.000	0.000
6/30/1992	5.56	36.97	6.64		144.25	337.91	0.00	0.000	0.000
7/31/1992	5.63	36.95	6.56		144.43	339.06	0.00	0.000	0.000
8/31/1992	5.41	34.44	6.36		144.59	340.12	0.00	0.000	0.000
9/30/1992	5.35	34.87	6.51		144.76	341.17	0.00	0.000	0.000
10/31/1992	5.22	33.21	6.36		144.92	342.20	0.00	0.000	0.000
11/30/1992	5.20	31.14	5.98		145.07	343.13	0.00	0.000	0.000
12/31/1992	5.75	38.60	6.71		145.25	344.33	0.00	0.000	0.000
1/31/1993	5.64	39.55	7.01		145.43	345.56	0.00	0.000	0.000
2/28/1993	5.86	41.15	7.02		145.59	346.71	0.00	0.000	0.000
3/31/1993	5.56	40.74	7.32		145.76	347.97	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
4/30/1993	5.00	36.07	7.21		145.91	349.05	0.00	0.000	0.000
5/31/1993	5.47	41.33	7.56		146.08	350.33	0.00	0.000	0.000
6/30/1993	5.56	41.22	7.41		146.25	351.57	0.00	0.000	0.000
7/31/1993	5.53	40.87	7.39		146.42	352.84	0.00	0.000	0.000
8/31/1993	5.27	36.71	6.96		146.58	353.98	0.00	0.000	0.000
9/30/1993	5.33	44.46	8.35		146.74	355.31	0.00	0.000	0.000
10/31/1993	5.13	43.87	8.55		146.90	356.67	0.00	0.000	0.000
11/30/1993	18.44	56.89	3.08		147.46	358.38	0.00	0.000	0.000
12/31/1993	18.80	79.74	4.24		148.04	360.85	0.00	0.000	0.000
1/31/1994	17.03	77.49	4.55		148.57	363.25	0.00	0.000	0.000
2/28/1994	15.11	72.72	4.81		148.99	365.29	0.00	0.000	0.000
3/31/1994	9.13	48.24	5.28		149.27	366.78	0.00	0.000	0.000
4/30/1994	7.69	49.41	6.43		149.50	368.26	0.00	0.000	0.000
5/31/1994	10.03	51.42	5.13		149.82	369.86	0.00	0.000	0.000
6/30/1994	5.37	30.73	5.72		149.98	370.78	0.00	0.000	0.000
7/31/1994	14.90	43.64	2.93		150.44	372.13	0.00	0.000	0.000
8/31/1994	17.38	70.35	4.05		150.98	374.31	0.00	0.000	0.000
9/30/1994	24.85	91.07	3.67		151.72	377.05	0.00	0.000	0.000
10/31/1994	23.38	87.06	3.72		152.45	379.74	0.00	0.000	0.000
11/30/1994	22.65	83.31	3.68		153.13	382.24	0.00	0.000	0.000
12/31/1994	22.27	85.84	3.85		153.82	384.90	0.00	0.000	0.000
1/31/1995	21.24	81.68	3.85		154.47	387.44	0.00	0.000	0.000
2/28/1995	20.80	82.89	3.99		155.06	389.76	0.00	0.000	0.000
3/31/1995	20.16	82.03	4.07		155.68	392.30	0.00	0.000	0.000
4/30/1995	19.97	84.40	4.23		156.28	394.83	0.00	0.000	0.000
5/31/1995	19.79	83.42	4.22		156.89	397.42	0.00	0.000	0.000
6/30/1995	19.21	83.30	4.34		157.47	399.92	0.00	0.000	0.000
7/31/1995	18.96	81.65	4.31		158.06	402.45	0.00	0.000	0.000
8/31/1995	30.60	82.65	2.70		159.01	405.01	0.00	0.000	0.000
9/30/1995	26.29	83.77	3.19		159.80	407.52	0.00	0.000	0.000
10/31/1995	24.71	84.87	3.44		160.56	410.15	0.00	0.000	0.000
11/30/1995	23.72	83.20	3.51		161.27	412.65	0.00	0.000	0.000
12/31/1995	23.25	82.94	3.57		161.99	415.22	0.00	0.000	0.000
1/31/1996	22.55	83.68	3.71		162.69	417.82	0.00	0.000	0.000
2/29/1996	22.40	83.76	3.74		163.34	420.24	0.00	0.000	0.000
3/31/1996	21.84	85.06	3.89		164.02	422.88	0.00	0.000	0.000
4/30/1996	21.33	85.30	4.00		164.66	425.44	0.00	0.000	0.000
5/31/1996	21.11	75.52	3.58		165.31	427.78	0.00	0.000	0.000
6/30/1996	20.14	79.93	3.97		165.92	430.18	0.00	0.000	0.000
7/31/1996	20.09	85.45	4.25		166.54	432.83	0.00	0.000	0.000
8/31/1996	20.80	87.84	4.22		167.19	435.55	0.00	0.000	0.000
9/30/1996	20.08	88.87	4.43		167.79	438.22	0.00	0.000	0.000
10/31/1996	20.41	90.13	4.42		168.42	441.01	0.00	0.000	0.000
11/30/1996	18.95	88.83	4.69		168.99	443.68	0.00	0.000	0.000
12/31/1996	21.67	89.36	4.12		169.66	446.45	0.00	0.000	0.000
1/31/1997	18.63	86.26	4.63		170.24	449.12	0.00	0.000	0.000
2/28/1997	19.40	88.64	4.57		170.78	451.60	0.00	0.000	0.000
3/31/1997	18.58	87.90	4.73		171.36	454.33	0.00	0.000	0.000

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4/30/1997	28.21	107.07	3.80		172.20	457.54	0.00	0.000	0.000
5/31/1997	27.90	113.61	4.07		173.07	461.06	0.00	0.000	0.000
6/30/1997	25.79	108.60	4.21		173.84	464.32	0.00	0.000	0.000
7/31/1997	24.67	101.99	4.13		174.61	467.48	0.00	0.000	0.000
8/31/1997	23.95	86.35	3.61		175.35	470.16	0.00	0.000	0.000
9/30/1997	24.18	84.37	3.49		176.08	472.69	0.00	0.000	0.000
10/31/1997	19.85	78.83	3.97		176.69	475.13	0.00	0.000	0.000
11/30/1997	23.39	67.61	2.89		177.39	477.16	0.00	0.000	0.000
12/31/1997	22.72	70.48	3.10		178.10	479.35	0.00	0.000	0.000
1/31/1998	22.22	68.66	3.09		178.79	481.48	0.00	0.000	0.000
2/28/1998	21.73	65.98	3.04		179.39	483.32	0.00	0.000	0.000
3/31/1998	21.15	62.13	2.94		180.05	485.25	0.00	0.000	0.000
4/30/1998	20.64	64.87	3.14		180.67	487.19	0.00	0.000	0.000
5/31/1998	20.03	126.80	6.33		181.29	491.13	0.00	0.000	0.000
6/30/1998	19.62	67.19	3.42		181.88	493.14	0.00	0.000	0.000
7/31/1998	19.19	70.73	3.69		182.47	495.33	0.00	0.000	0.000
8/31/1998	18.79	65.83	3.50		183.06	497.37	0.00	0.000	0.000
9/30/1998	18.27	68.05	3.72		183.60	499.42	0.00	0.000	0.000
10/31/1998	18.08	66.91	3.70		184.16	501.49	0.00	0.000	0.000
11/30/1998	17.57	66.07	3.76		184.69	503.47	0.00	0.000	0.000
12/31/1998	17.14	67.44	3.94		185.22	505.56	0.00	0.000	0.000
1/31/1999	15.16	66.85	4.41		185.69	507.64	0.00	0.000	0.000
2/28/1999	16.41	61.84	3.77		186.15	509.37	0.00	0.000	0.000
3/31/1999	24.22	83.38	3.44		186.90	511.95	0.00	0.000	0.000
4/30/1999	24.50	122.48	5.00		187.64	515.63	0.00	0.000	0.000
5/31/1999	20.05	108.80	5.43		188.26	519.00	0.00	0.000	0.000
6/30/1999	18.85	106.33	5.64		188.83	522.19	0.00	0.000	0.000
7/31/1999	18.71	112.05	5.99		189.41	525.66	0.00	0.000	0.000
8/31/1999	17.71	113.58	6.41		189.95	529.18	0.00	0.000	0.000
9/30/1999	17.36	114.75	6.61		190.48	532.63	0.00	0.000	0.000
10/31/1999	16.98	113.69	6.70		191.00	536.15	0.00	0.000	0.000
11/30/1999	14.64	68.17	4.66	10.37	191.44	538.20	0.31	0.124	0.000
12/31/1999	15.51	128.04	8.26	36.10	191.92	542.16	1.43	0.250	0.002
1/31/2000	15.96	131.59	8.25	48.71	192.42	546.24	2.94	0.328	0.004
2/29/2000	15.41	132.42	8.59	48.72	192.86	550.08	4.35	0.328	0.006
3/31/2000	15.17	134.30	8.85	48.94	193.33	554.25	5.87	0.326	0.008
4/30/2000	14.64	132.54	9.06	48.63	193.77	558.22	7.33	0.329	0.010
5/31/2000	14.48	126.15	8.71	48.26	194.22	562.13	8.82	0.341	0.012
6/30/2000	15.59	149.31	9.58	50.00	194.69	566.61	10.32	0.302	0.013
7/31/2000	15.16	139.78	9.22	49.71	195.16	570.95	11.87	0.319	0.015
8/31/2000	14.75	136.33	9.24	76.42	195.62	575.17	14.23	0.503	0.018
9/30/2000	14.31	133.97	9.36	93.27	196.05	579.19	17.03	0.626	0.022
10/31/2000	14.05	131.04	9.33	97.84	196.48	583.26	20.07	0.671	0.025
11/30/2000	13.86	131.17	9.46	100.87	196.90	587.19	23.09	0.692	0.029
12/31/2000	14.05	131.62	9.37	131.58	197.33	591.27	27.17	0.899	0.034
1/31/2001	14.65	131.59	8.98	131.55	197.79	595.35	31.25	0.895	0.039
2/28/2001	14.76	139.57	9.46	139.54	198.20	599.26	35.16	0.900	0.044
3/31/2001	14.39	139.11	9.67	139.06	198.65	603.57	39.47	0.902	0.049

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4/30/2001	14.45	140.98	9.76	140.93	199.08	607.80	43.70	0.903	0.053
5/31/2001	14.10	140.08	9.94	140.03	199.52	612.14	48.04	0.904	0.058
6/30/2001	13.33	141.37	10.61	141.33	199.92	616.38	52.28	0.910	0.063
7/31/2001	13.69	136.73	9.99	136.90	200.34	620.62	56.52	0.906	0.068
8/31/2001	13.71	138.55	10.11	138.52	200.77	624.92	60.81	0.906	0.073
9/30/2001	12.91	136.63	10.58	134.97	201.15	629.02	64.86	0.899	0.077
10/31/2001	13.22	142.52	10.78	142.48	201.56	633.43	69.28	0.911	0.082
11/30/2001	12.70	142.57	11.22	142.53	201.94	637.71	73.56	0.914	0.087
12/31/2001	12.33	141.87	11.51	141.84	202.33	642.11	77.95	0.916	0.091
1/31/2002	12.05	139.84	11.60	139.81	202.70	646.44	82.29	0.917	0.096
2/28/2002	11.94	134.25	11.24	134.21	203.03	650.20	86.05	0.914	0.100
3/31/2002	11.65	135.33	11.62	135.29	203.40	654.40	90.24	0.917	0.104
4/30/2002	11.62	136.88	11.78	137.03	203.74	658.50	94.35	0.919	0.108
5/31/2002	11.51	141.63	12.30	141.74	204.10	662.89	98.74	0.922	0.113
6/30/2002	11.35	139.99	12.33	140.13	204.44	667.09	102.95	0.922	0.117
7/31/2002	11.20	145.88	13.02	142.71	204.79	671.62	107.37	0.905	0.121
8/31/2002	10.85	148.21	13.67	148.23	205.12	676.21	111.97	0.929	0.126
9/30/2002	11.16	145.82	13.07	146.20	205.46	680.59	116.35	0.928	0.130
10/31/2002	10.73	144.89	13.51	145.10	205.79	685.08	120.85	0.929	0.134
11/30/2002	10.43	146.42	14.03	146.50	206.10	689.47	125.25	0.931	0.138
12/31/2002	10.40	146.53	14.08	146.74	206.43	694.01	129.79	0.932	0.143
1/31/2003	10.14	147.61	14.55	147.74	206.74	698.59	134.38	0.934	0.147
2/28/2003	10.03	148.33	14.80	148.50	207.02	702.74	138.53	0.935	0.151
3/31/2003	10.05	151.47	15.07	153.97	207.33	707.44	143.31	0.950	0.155
4/30/2003	9.71	152.98	15.75	156.10	207.63	712.03	147.99	0.957	0.159
5/31/2003	9.87	153.16	15.51	157.29	207.93	716.77	152.87	0.962	0.163
6/30/2003	9.58	156.41	16.33	160.53	208.22	721.47	157.68	0.964	0.168
7/31/2003	9.45	156.01	16.51	159.39	208.51	726.30	162.62	0.961	0.172
8/31/2003	9.43	157.08	16.66	162.45	208.80	731.17	167.66	0.973	0.176
9/30/2003	9.29	146.53	15.77	153.90	209.08	735.57	172.28	0.985	0.180
10/31/2003	8.84	148.66	16.83	156.65	209.36	740.18	177.13	0.992	0.185
11/30/2003	8.87	150.98	17.03	159.53	209.62	744.71	181.92	0.995	0.189
12/31/2003	9.03	151.25	16.75	161.87	209.90	749.40	186.94	1.007	0.193
1/31/2004	7.89	148.48	18.83	159.13	210.15	754.00	191.87	1.015	0.197
2/29/2004	8.77	150.16	17.13	161.86	210.40	758.35	196.56	1.016	0.201
3/31/2004	8.66	147.25	17.01	157.90	210.67	762.92	201.46	1.010	0.205
4/30/2004	7.36	138.20	18.79	148.50	210.89	767.06	205.91	1.018	0.208
5/31/2004	7.04	125.27	17.79	133.03	211.11	770.95	210.04	1.003	0.212
6/30/2004	6.50	115.06	17.70	124.73	211.30	774.40	213.78	1.023	0.215
7/31/2004	5.75	114.03	19.81	123.06	211.48	777.93	217.59	1.025	0.218
8/31/2004	5.74	104.48	18.22	115.87	211.66	781.17	221.19	1.049	0.220
9/30/2004	6.09	112.95	18.55	125.33	211.84	784.56	224.94	1.050	0.223
10/31/2004	5.95	111.21	18.69	124.03	212.03	788.01	228.79	1.056	0.226
11/30/2004	5.59	110.86	19.84	124.90	212.19	791.33	232.54	1.070	0.229
12/31/2004	5.17	109.15	21.10	123.13	212.36	794.72	236.35	1.075	0.232
1/31/2005	4.65	108.38	23.33	121.74	212.50	798.08	240.13	1.075	0.235
2/28/2005	4.30	109.71	25.51	124.21	212.62	801.15	243.61	1.087	0.238
3/31/2005	4.13	109.99	26.62	124.77	212.75	804.56	247.47	1.091	0.241



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
4/30/2005	4.18	111.76	26.74	126.63	212.87	807.91	251.27	1.090	0.244
5/31/2005	4.67	108.73	23.26	124.58	213.02	811.28	255.13	1.096	0.247
6/30/2005	5.61	104.84	18.68	122.40	213.19	814.43	258.81	1.105	0.249
7/31/2005	5.07	103.14	20.35	121.26	213.34	817.63	262.57	1.118	0.252
8/31/2005	5.41	98.66	18.23	116.90	213.51	820.68	266.19	1.120	0.255
9/30/2005	5.40	95.13	17.62	111.73	213.67	823.54	269.54	1.109	0.257
10/31/2005	5.24	95.05	18.14	112.10	213.84	826.48	273.02	1.115	0.260
11/30/2005	5.25	98.51	18.78	116.83	213.99	829.44	276.52	1.123	0.262
12/31/2005	4.99	98.57	19.77	118.35	214.15	832.50	280.19	1.140	0.265
1/31/2006	4.89	99.15	20.28	120.81	214.30	835.57	283.94	1.158	0.268
2/28/2006	4.66	98.26	21.08	121.82	214.43	838.32	287.35	1.181	0.270
3/31/2006	4.98	99.56	19.98	120.03	214.58	841.41	291.07	1.145	0.273
4/30/2006	4.94	92.43	18.72	111.67	214.73	844.18	294.42	1.144	0.275
5/31/2006	5.31	95.99	18.08	115.77	214.90	847.16	298.01	1.140	0.278
6/30/2006	5.15	100.07	19.44	125.77	215.05	850.16	301.78	1.192	0.280
7/31/2006	4.85	99.79	20.58	131.81	215.20	853.25	305.87	1.257	0.283
8/31/2006	4.75	98.97	20.84	134.19	215.35	856.32	310.03	1.291	0.286
9/30/2006	4.51	98.98	21.93	133.40	215.48	859.29	314.03	1.286	0.289
10/31/2006	4.39	100.20	22.81	133.06	215.62	862.39	318.15	1.270	0.292
11/30/2006	4.46	100.73	22.58	132.03	215.75	865.42	322.11	1.253	0.295
12/31/2006	4.67	105.20	22.51	159.19	215.90	868.68	327.05	1.446	0.299
1/31/2007	4.43	107.21	24.22	162.48	216.04	872.00	332.09	1.453	0.302
2/28/2007	4.43	106.08	23.93	162.50	216.16	874.97	336.64	1.468	0.305
3/31/2007	4.41	106.40	24.11	164.48	216.30	878.27	341.74	1.481	0.309
4/30/2007	4.33	106.73	24.65	171.73	216.43	881.47	346.89	1.543	0.313
5/31/2007	4.31	105.56	24.49	170.45	216.56	884.74	352.17	1.548	0.317
6/30/2007	4.23	102.46	24.20	168.33	216.69	887.82	357.22	1.575	0.320
7/31/2007	4.00	104.60	26.15	165.16	216.81	891.06	362.34	1.518	0.324
8/31/2007	4.13	106.01	25.65	176.42	216.94	894.35	367.81	1.599	0.328
9/30/2007	4.30	101.80	23.67	174.93	217.07	897.40	373.06	1.645	0.332
10/31/2007	4.17	96.75	23.22	171.90	217.20	900.40	378.39	1.700	0.335
11/30/2007	3.90	88.90	22.81	162.23	217.32	903.07	383.25	1.745	0.339
12/31/2007	3.35	75.98	22.65	146.71	217.42	905.42	387.80	1.845	0.342
1/31/2008	3.89	106.02	27.23	175.81	217.54	908.71	393.25	1.597	0.346
2/29/2008	4.07	103.17	25.38	175.93	217.66	911.70	398.35	1.638	0.349
3/31/2008	4.39	105.28	24.00	184.71	217.79	914.97	404.08	1.681	0.353
4/30/2008	4.41	105.71	23.97	185.17	217.93	918.14	409.63	1.678	0.357
5/31/2008	4.53	103.33	22.80	179.97	218.07	921.34	415.21	1.665	0.361
6/30/2008	4.52	100.70	22.28	176.50	218.20	924.36	420.51	1.674	0.365
7/31/2008	4.78	101.09	21.13	176.90	218.35	927.49	425.99	1.667	0.368
8/31/2008	4.46	101.11	22.66	180.00	218.49	930.63	431.57	1.701	0.372
9/30/2008	4.74	100.12	21.14	179.87	218.63	933.63	436.97	1.711	0.376
10/31/2008	4.65	98.04	21.08	162.94	218.77	936.67	442.02	1.583	0.379
11/30/2008	4.58	93.08	20.32	183.13	218.91	939.46	447.51	1.871	0.383
12/31/2008	4.14	82.95	20.06	178.65	219.04	942.04	453.05	2.046	0.387
1/31/2009	4.24	88.30	20.85	185.52	219.17	944.77	458.80	2.000	0.391
2/28/2009	4.26	88.10	20.66	186.75	219.29	947.24	464.03	2.017	0.394
3/31/2009	4.09	90.61	22.15	186.58	219.42	950.05	469.82	1.966	0.398

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
4/30/2009	4.27	90.25	21.14	188.07	219.55	952.76	475.46	1.985	0.402
5/31/2009	3.61	65.17	18.06	163.16	219.66	954.78	480.52	2.366	0.405
6/30/2009	3.10	51.44	16.61	151.40	219.75	956.32	485.06	2.768	0.409
7/31/2009	4.45	93.19	20.93	172.94	219.89	959.21	490.42	1.767	0.412
8/31/2009	4.28	92.03	21.48	178.81	220.02	962.06	495.96	1.852	0.416
9/30/2009	4.12	91.35	22.19	181.80	220.15	964.80	501.42	1.900	0.419
10/31/2009	3.87	90.67	23.44	183.16	220.27	967.61	507.09	1.933	0.423
11/30/2009	3.79	87.76	23.18	176.80	220.38	970.25	512.40	1.927	0.426
12/31/2009	3.88	90.54	23.33	181.26	220.50	973.05	518.02	1.916	0.430
1/31/2010	3.77	88.88	23.55	179.32	220.62	975.81	523.58	1.931	0.434
2/28/2010	3.75	87.11	23.23	174.11	220.72	978.25	528.45	1.912	0.437
3/31/2010	3.77	88.88	23.57	177.19	220.84	981.00	533.94	1.909	0.440
4/30/2010	3.56	88.16	24.76	173.90	220.94	983.65	539.16	1.892	0.444
5/31/2010	3.60	88.84	24.68	172.03	221.06	986.40	544.49	1.857	0.447
6/30/2010	3.40	84.57	24.90	174.00	221.16	988.94	549.71	1.974	0.450
7/31/2010	2.94	82.29	28.00	166.26	221.25	991.49	554.87	1.947	0.453
8/31/2010	3.77	94.30	25.03	177.42	221.37	994.41	560.37	1.806	0.457
9/30/2010	4.25	102.85	24.20	184.77	221.49	997.50	565.91	1.722	0.460
10/31/2010	4.10	99.51	24.27	182.52	221.62	1000.58	571.57	1.758	0.463
11/30/2010	4.05	98.13	24.25	183.97	221.74	1003.53	577.09	1.797	0.467
12/31/2010	4.05	97.17	23.98	185.71	221.87	1006.54	582.85	1.831	0.470

Oil Formation Vol. Factor : 1.05 m3/m3

## Completions Selected (15)

Water Formation Vol Factor : 1.00 m3/m3

July 20, 2011

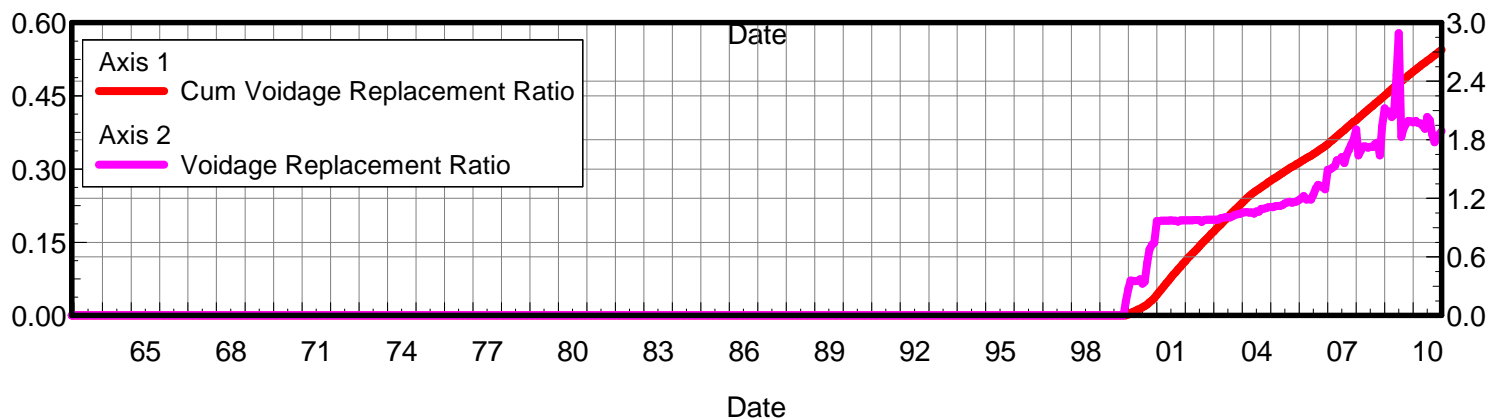
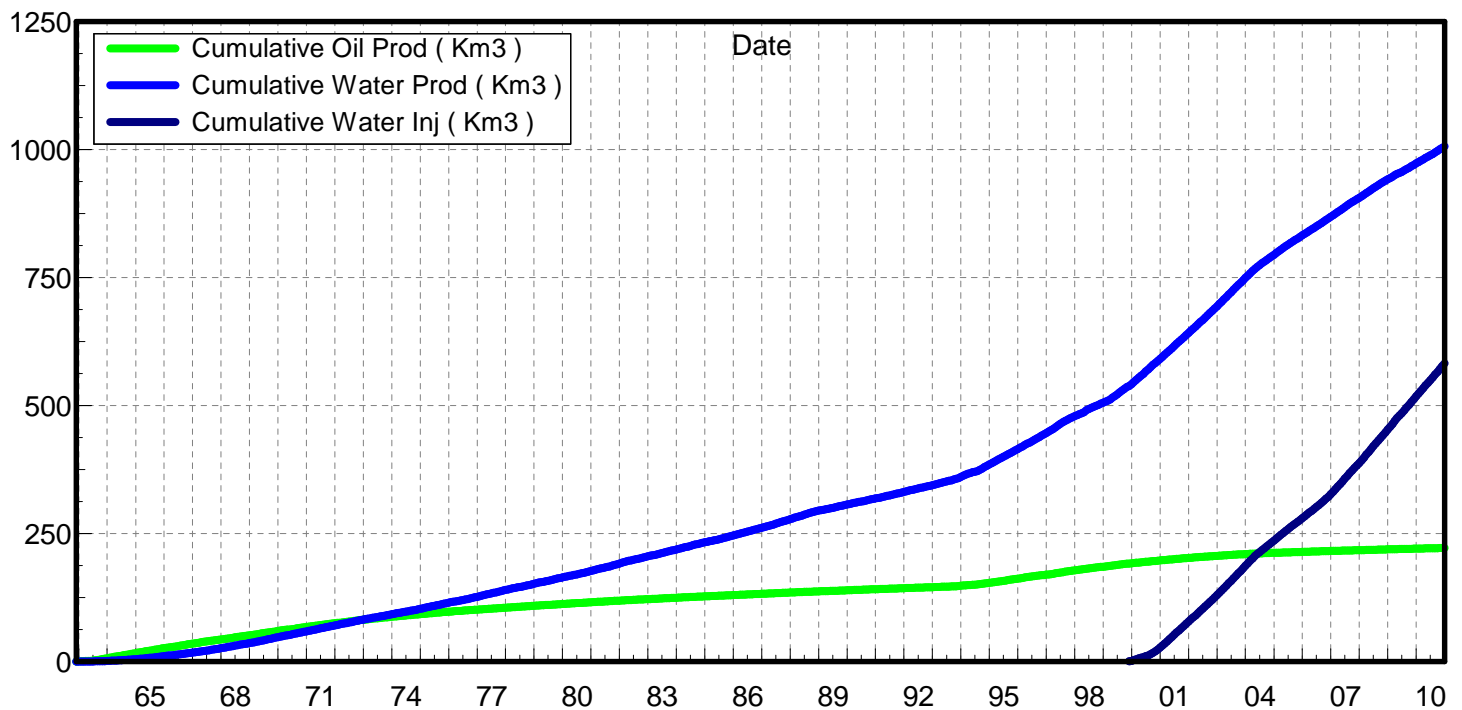
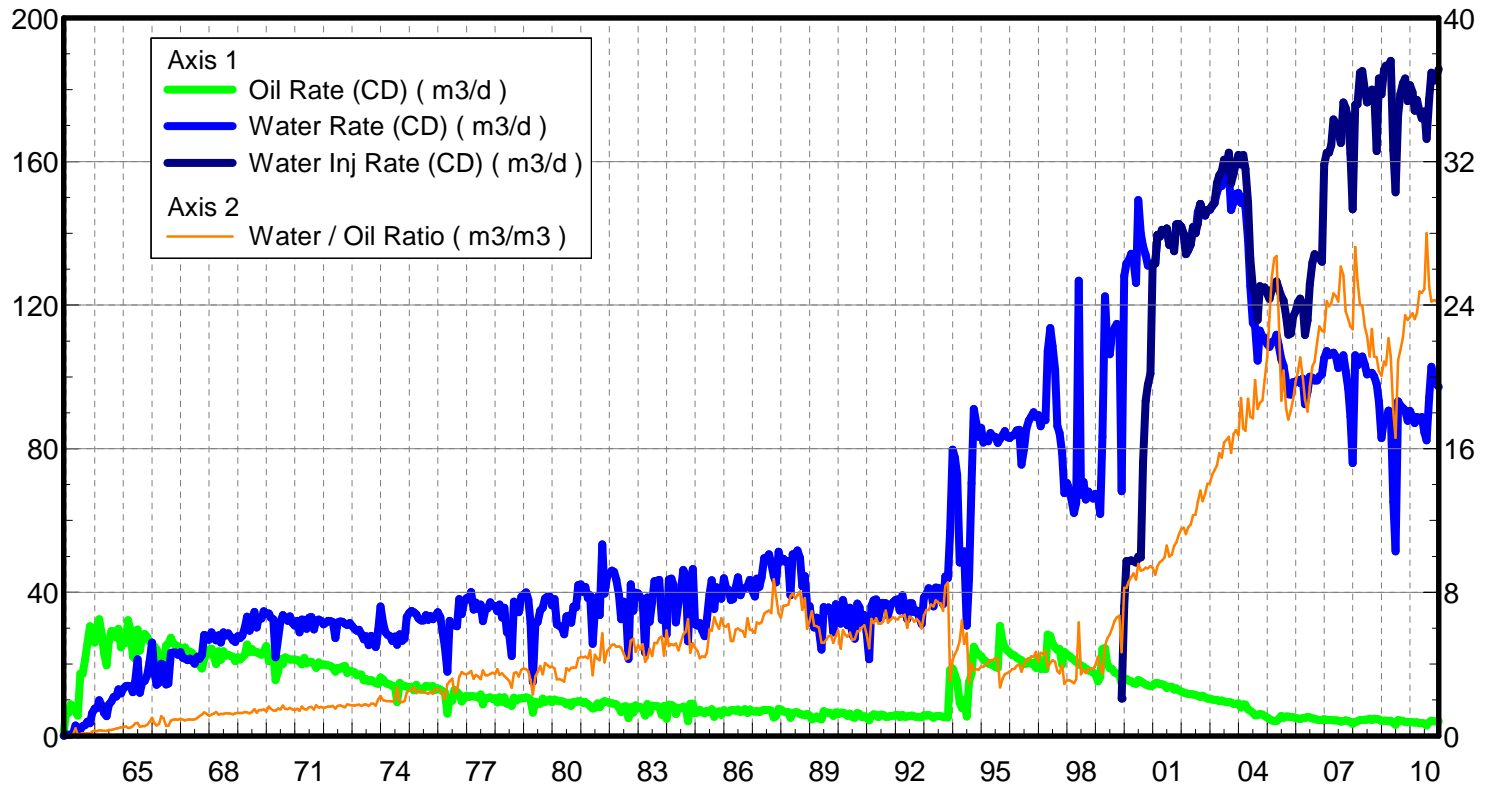
Water / Oil Ratio : 24.62 m3/m3

Operator: Tundra\_Oil\_and\_Gas\_Patnership

Oil Rate (CD) : 3.94 m3/d

Water Rate (CD) : 96.95 m3/d

Water Inj Rate (CD) : 185.65 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
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
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

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
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
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

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
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
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

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
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
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

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
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



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4/30/1985	1.30	1.42	1.09		32.64	47.95	0.00	0.000	0.000
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
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

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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
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

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
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
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

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
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
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	14.27	28.51	2.00		46.62	70.37	0.00	0.000	0.000
4/30/1999	15.00	47.26	3.15		47.07	71.79	0.00	0.000	0.000
5/31/1999	11.74	41.45	3.53		47.43	73.07	0.00	0.000	0.000
6/30/1999	11.21	40.73	3.63		47.77	74.29	0.00	0.000	0.000
7/31/1999	10.04	39.34	3.92		48.08	75.51	0.00	0.000	0.000
8/31/1999	9.64	39.53	4.10		48.38	76.74	0.00	0.000	0.000
9/30/1999	10.09	39.81	3.94		48.68	77.93	0.00	0.000	0.000
10/31/1999	10.09	40.46	4.01		48.99	79.19	0.00	0.000	0.000
11/30/1999	8.76	24.37	2.78		49.26	79.92	0.00	0.000	0.000
12/31/1999	8.18	41.24	5.04		49.51	81.20	0.00	0.000	0.000
1/31/2000	8.15	39.27	4.82		49.76	82.41	0.00	0.000	0.000
2/29/2000	7.73	37.44	4.84		49.99	83.50	0.00	0.000	0.000
3/31/2000	8.34	37.76	4.53		50.25	84.67	0.00	0.000	0.000
4/30/2000	8.68	36.99	4.26		50.51	85.78	0.00	0.000	0.000
5/31/2000	8.80	37.64	4.28		50.78	86.95	0.00	0.000	0.000
6/30/2000	8.03	39.92	4.97		51.02	88.15	0.00	0.000	0.000
7/31/2000	7.65	37.08	4.85		51.26	89.29	0.00	0.000	0.000
8/31/2000	7.15	37.17	5.20	27.52	51.48	90.45	0.85	0.616	0.006
9/30/2000	7.23	36.83	5.09	50.93	51.70	91.55	2.38	1.147	0.016
10/31/2000	7.87	38.04	4.83	50.10	51.94	92.73	3.93	1.082	0.027
11/30/2000	7.98	37.57	4.71	52.40	52.18	93.86	5.51	1.140	0.037
12/31/2000	7.76	37.83	4.87	62.39	52.42	95.03	7.44	1.357	0.050
1/31/2001	8.35	37.81	4.53	62.06	52.68	96.20	9.36	1.332	0.062
2/28/2001	8.18	40.06	4.90	50.50	52.91	97.32	10.78	1.038	0.071
3/31/2001	7.78	40.61	5.22	57.84	53.15	98.58	12.57	1.186	0.081
4/30/2001	7.74	40.78	5.27	53.33	53.38	99.81	14.17	1.091	0.091
5/31/2001	7.81	42.27	5.41	54.68	53.62	101.12	15.87	1.083	0.101
6/30/2001	7.72	43.05	5.58	58.50	53.85	102.41	17.62	1.144	0.111
7/31/2001	7.72	41.60	5.39	54.13	54.09	103.70	19.30	1.089	0.120

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
8/31/2001	7.59	41.88	5.52	56.90	54.33	105.00	21.06	1.142	0.130
9/30/2001	7.30	44.81	6.14	60.50	54.55	106.34	22.88	1.153	0.140
10/31/2001	7.21	45.31	6.28	73.90	54.77	107.75	25.17	1.397	0.152
11/30/2001	7.07	44.10	6.23	72.83	54.98	109.07	27.35	1.414	0.164
12/31/2001	7.00	44.21	6.32	71.19	55.20	110.44	29.56	1.381	0.176
1/31/2002	6.88	43.93	6.38	71.97	55.41	111.80	31.79	1.407	0.187
2/28/2002	6.85	42.18	6.16	72.11	55.61	112.98	33.81	1.461	0.197
3/31/2002	6.68	42.03	6.29	69.48	55.81	114.28	35.97	1.417	0.208
4/30/2002	6.91	43.66	6.32	59.83	56.02	115.59	37.76	1.175	0.216
5/31/2002	7.00	44.18	6.31	62.52	56.24	116.96	39.70	1.213	0.226
6/30/2002	6.82	43.23	6.34	65.27	56.44	118.26	41.66	1.295	0.235
7/31/2002	6.81	46.60	6.84	70.39	56.65	119.71	43.84	1.310	0.245
8/31/2002	6.62	46.59	7.04	70.42	56.86	121.15	46.02	1.315	0.254
9/30/2002	6.62	47.19	7.13	67.23	57.06	122.57	48.04	1.242	0.263
10/31/2002	6.44	46.39	7.21	65.00	57.26	124.00	50.05	1.223	0.272
11/30/2002	6.13	46.07	7.51	66.43	57.44	125.39	52.05	1.265	0.280
12/31/2002	6.12	46.01	7.52	67.13	57.63	126.81	54.13	1.280	0.289
1/31/2003	5.97	45.04	7.54	67.61	57.82	128.21	56.22	1.318	0.298
2/28/2003	5.85	47.04	8.04	67.68	57.98	129.53	58.12	1.272	0.305
3/31/2003	5.95	48.92	8.22	74.13	58.16	131.04	60.42	1.344	0.314
4/30/2003	5.75	49.49	8.60	74.23	58.34	132.53	62.64	1.337	0.323
5/31/2003	5.64	49.13	8.72	72.23	58.51	134.05	64.88	1.312	0.332
6/30/2003	5.39	51.43	9.55	77.70	58.67	135.59	67.21	1.361	0.341
7/31/2003	5.11	50.28	9.84	74.77	58.83	137.15	69.53	1.344	0.350
8/31/2003	5.18	51.30	9.90	75.68	58.99	138.74	71.88	1.334	0.358
9/30/2003	5.26	47.42	9.02	75.53	59.15	140.16	74.14	1.427	0.367
10/31/2003	5.03	48.50	9.65	74.77	59.31	141.67	76.46	1.391	0.375
11/30/2003	4.95	48.22	9.74	77.30	59.45	143.11	78.78	1.447	0.383
12/31/2003	5.04	48.42	9.61	81.23	59.61	144.61	81.30	1.512	0.392
1/31/2004	4.45	48.27	10.86	82.23	59.75	146.11	83.85	1.553	0.401
2/29/2004	4.87	49.18	10.10	81.55	59.89	147.54	86.21	1.502	0.410
3/31/2004	4.97	48.29	9.71	76.03	60.04	149.03	88.57	1.421	0.418
4/30/2004	4.99	44.99	9.02	65.30	60.19	150.38	90.53	1.300	0.424
5/31/2004	4.92	43.71	8.88	59.68	60.35	151.74	92.38	1.221	0.429
6/30/2004	4.74	43.70	9.23	48.70	60.49	153.05	93.84	1.001	0.433
7/31/2004	4.22	45.95	10.88	54.74	60.62	154.47	95.54	1.086	0.438
8/31/2004	4.27	44.49	10.42	45.55	60.75	155.85	96.95	0.930	0.441
9/30/2004	4.46	45.91	10.29	44.87	60.89	157.23	98.29	0.887	0.444
10/31/2004	4.34	45.62	10.52	41.55	61.02	158.65	99.58	0.828	0.447
11/30/2004	4.06	47.06	11.59	40.47	61.14	160.06	100.80	0.788	0.449
12/31/2004	3.65	48.37	13.26	38.77	61.25	161.56	102.00	0.743	0.452
1/31/2005	3.12	48.99	15.71	37.55	61.35	163.08	103.16	0.718	0.453
2/28/2005	2.87	50.56	17.63	36.57	61.43	164.49	104.19	0.683	0.455
3/31/2005	2.74	50.15	18.29	39.42	61.52	166.05	105.41	0.743	0.457
4/30/2005	2.78	51.49	18.52	45.60	61.60	167.59	106.78	0.838	0.460
5/31/2005	3.37	50.32	14.94	36.71	61.70	169.15	107.91	0.682	0.461
6/30/2005	4.37	48.57	11.11	39.53	61.84	170.61	109.10	0.744	0.463
7/31/2005	3.83	47.22	12.33	35.84	61.95	172.07	110.21	0.699	0.465

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8/31/2005	4.22	45.25	10.73	33.55	62.09	173.47	111.25	0.675	0.466
9/30/2005	4.24	44.01	10.39	34.27	62.21	174.79	112.28	0.707	0.468
10/31/2005	4.09	43.43	10.62	32.03	62.34	176.14	113.27	0.671	0.469
11/30/2005	4.10	44.86	10.94	31.20	62.46	177.49	114.21	0.635	0.470
12/31/2005	3.90	44.09	11.32	32.39	62.58	178.85	115.21	0.672	0.471
1/31/2006	3.84	45.09	11.76	34.23	62.70	180.25	116.27	0.697	0.472
2/28/2006	3.67	45.99	12.53	34.57	62.80	181.54	117.24	0.694	0.474
3/31/2006	3.98	50.33	12.63	38.87	62.93	183.10	118.45	0.713	0.475
4/30/2006	3.99	49.02	12.30	38.50	63.05	184.57	119.60	0.724	0.477
5/31/2006	4.27	50.75	11.88	39.35	63.18	186.14	120.82	0.712	0.479
6/30/2006	4.15	53.05	12.79	48.13	63.30	187.73	122.27	0.839	0.481
7/31/2006	3.89	52.78	13.57	53.23	63.43	189.37	123.92	0.936	0.484
8/31/2006	3.78	51.62	13.65	53.94	63.54	190.97	125.59	0.970	0.487
9/30/2006	3.60	53.68	14.92	58.77	63.65	192.58	127.35	1.023	0.491
10/31/2006	3.53	55.02	15.58	52.26	63.76	194.29	128.97	0.890	0.494
11/30/2006	3.52	54.10	15.35	50.20	63.87	195.91	130.48	0.869	0.496
12/31/2006	3.68	57.14	15.54	73.13	63.98	197.68	132.74	1.199	0.501
1/31/2007	3.48	59.54	17.09	75.00	64.09	199.53	135.07	1.187	0.506
2/28/2007	3.49	58.13	16.64	76.68	64.19	201.15	137.22	1.241	0.511
3/31/2007	3.46	57.61	16.64	82.81	64.29	202.94	139.78	1.352	0.517
4/30/2007	3.39	57.54	16.99	84.57	64.39	204.67	142.32	1.384	0.523
5/31/2007	3.36	56.75	16.87	85.52	64.50	206.43	144.97	1.419	0.529
6/30/2007	3.29	55.19	16.78	86.67	64.60	208.08	147.57	1.478	0.535
7/31/2007	3.10	55.99	18.06	86.26	64.69	209.82	150.24	1.456	0.541
8/31/2007	3.20	56.84	17.76	92.42	64.79	211.58	153.11	1.535	0.548
9/30/2007	3.33	54.59	16.38	93.67	64.89	213.22	155.92	1.613	0.554
10/31/2007	3.25	51.85	15.93	94.87	64.99	214.82	158.86	1.717	0.561
11/30/2007	2.95	41.56	14.07	75.37	65.08	216.07	161.12	1.687	0.567
12/31/2007	2.50	29.94	11.99	65.06	65.16	217.00	163.14	1.998	0.572
1/31/2008	3.01	60.35	20.07	88.03	65.25	218.87	165.87	1.386	0.577
2/29/2008	3.15	57.70	18.33	89.41	65.34	220.54	168.46	1.466	0.583
3/31/2008	3.34	58.71	17.59	94.00	65.45	222.36	171.37	1.511	0.589
4/30/2008	3.31	58.58	17.68	92.00	65.55	224.12	174.13	1.482	0.594
5/31/2008	3.40	55.56	16.36	86.03	65.65	225.84	176.80	1.455	0.600
6/30/2008	3.34	51.23	15.32	85.50	65.75	227.38	179.37	1.562	0.605
7/31/2008	3.54	51.45	14.55	85.77	65.86	228.97	182.03	1.555	0.611
8/31/2008	3.27	51.91	15.87	90.90	65.96	230.58	184.84	1.643	0.616
9/30/2008	3.48	51.89	14.90	90.33	66.07	232.14	187.55	1.626	0.622
10/31/2008	3.46	51.19	14.79	79.68	66.18	233.73	190.02	1.453	0.627
11/30/2008	3.35	46.18	13.80	94.87	66.28	235.11	192.87	1.909	0.633
12/31/2008	3.09	40.94	13.26	100.65	66.37	236.38	195.99	2.278	0.640
1/31/2009	3.07	42.30	13.77	94.90	66.47	237.69	198.93	2.085	0.647
2/28/2009	3.09	43.28	14.03	93.57	66.55	238.90	201.55	2.011	0.653
3/31/2009	2.94	44.35	15.07	93.58	66.64	240.28	204.45	1.973	0.659
4/30/2009	3.08	44.23	14.36	96.40	66.74	241.61	207.34	2.031	0.665
5/31/2009	2.48	23.14	9.33	80.26	66.81	242.32	209.83	3.117	0.672
6/30/2009	1.97	8.11	4.11	72.10	66.87	242.57	212.00	7.083	0.678
7/31/2009	3.26	47.51	14.58	93.00	66.97	244.04	214.88	1.826	0.684

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
8/31/2009	3.10	46.50	15.00	99.03	67.07	245.48	217.95	1.991	0.690
9/30/2009	2.97	45.32	15.26	101.43	67.16	246.84	220.99	2.094	0.696
10/31/2009	2.72	45.37	16.71	102.19	67.24	248.25	224.16	2.119	0.703
11/30/2009	2.62	43.43	16.56	97.90	67.32	249.55	227.10	2.120	0.709
12/31/2009	2.70	45.96	17.00	101.10	67.41	250.98	230.23	2.072	0.716
1/31/2010	2.63	46.05	17.50	101.00	67.49	252.40	233.36	2.069	0.722
2/28/2010	2.57	43.99	17.13	95.39	67.56	253.63	236.03	2.043	0.727
3/31/2010	2.55	45.18	17.73	98.48	67.64	255.04	239.09	2.058	0.733
4/30/2010	2.39	44.45	18.62	94.80	67.71	256.37	241.93	2.019	0.739
5/31/2010	2.42	43.44	17.96	93.94	67.78	257.72	244.84	2.043	0.744
6/30/2010	2.30	40.61	17.66	96.17	67.85	258.93	247.73	2.235	0.750
7/31/2010	2.00	39.00	19.47	92.94	67.92	260.14	250.61	2.261	0.756
8/31/2010	2.70	49.28	18.25	100.48	68.00	261.67	253.72	1.928	0.762
9/30/2010	3.24	59.54	18.40	106.27	68.10	263.46	256.91	1.688	0.767
10/31/2010	3.08	56.89	18.45	104.52	68.19	265.22	260.15	1.738	0.772
11/30/2010	3.07	55.03	17.91	105.03	68.28	266.87	263.30	1.803	0.778
12/31/2010	3.08	54.73	17.78	106.77	68.38	268.57	266.61	1.842	0.783

# Pattern: 06-16-006-22 Set: Souris Hartney Unit

Oil Formation Vol. Factor : 1.05 m3/m3

Water Formation Vol Factor : 1.00 m3/m3

Water / Oil Ratio : 18.04 m3/m3

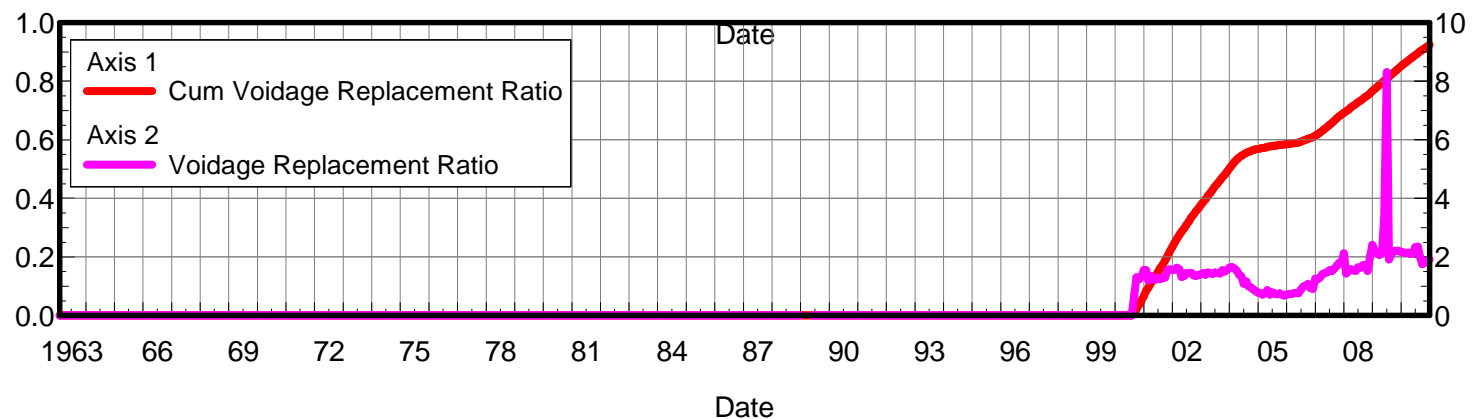
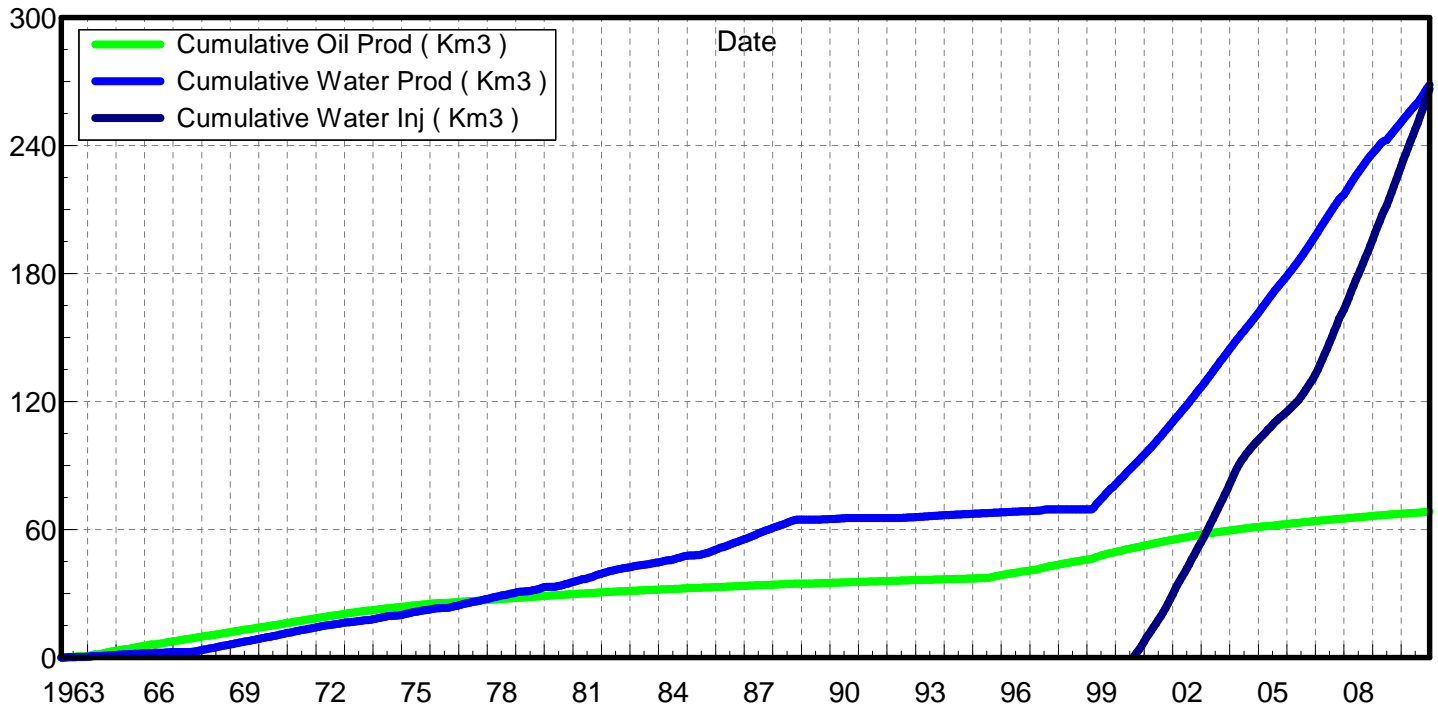
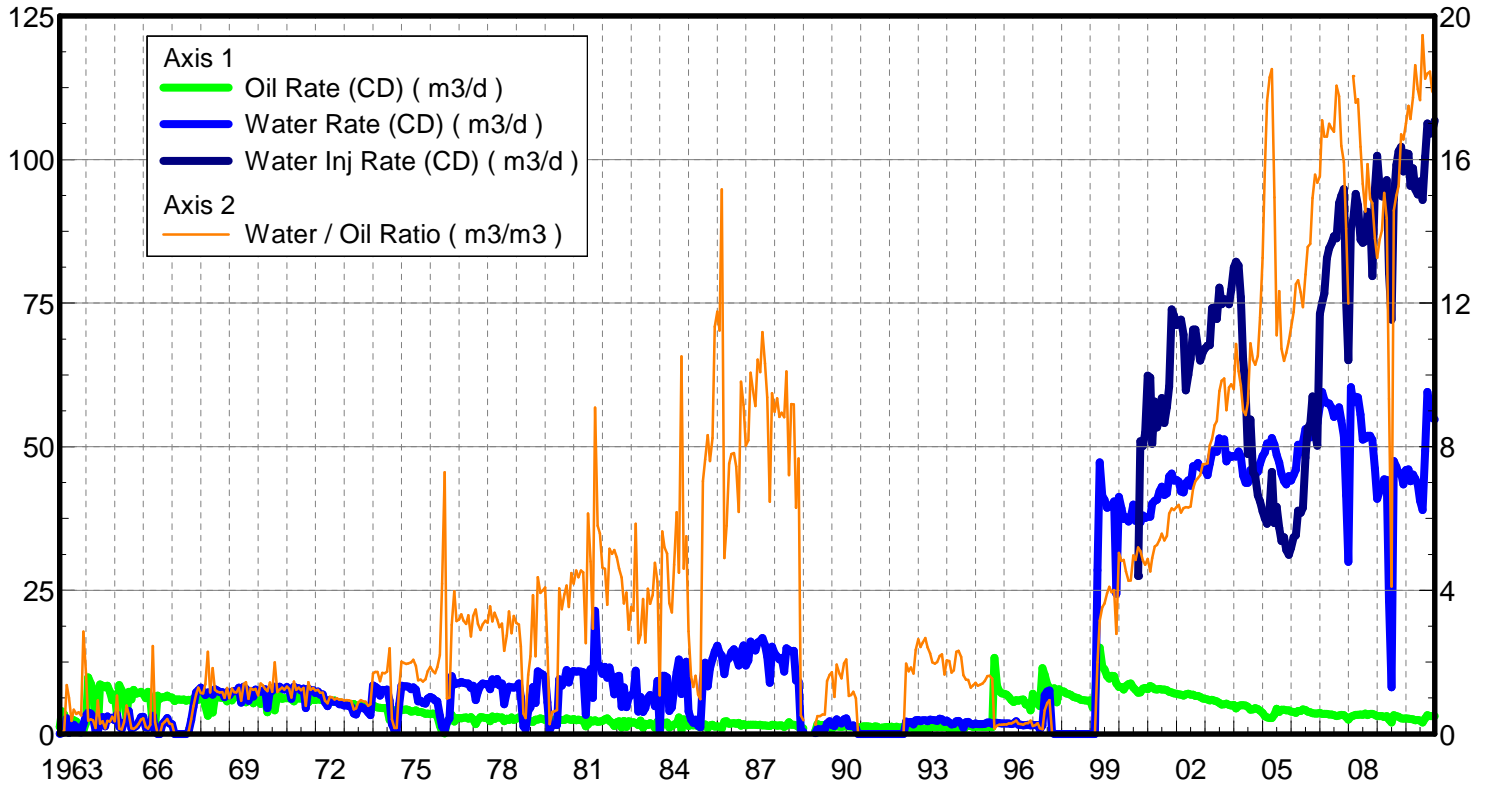
July 20, 2011

Operator: Tundra\_Oil\_and\_Gas\_Patnership

Oil Rate (CD) : 2.97 m3/d

Water Rate (CD) : 53.65 m3/d

Water Inj Rate (CD) : 106.68 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
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
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

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
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
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

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
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
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

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
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
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

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
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

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
4/30/1985	2.85	7.25	2.54		45.26	44.87	0.00	0.000	0.000
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

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
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
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

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
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	12.79	17.09	1.34		54.01	74.73	0.00	0.000	0.000
12/31/1993	11.74	24.83	2.12		54.38	75.50	0.00	0.000	0.000
1/31/1994	11.51	23.71	2.06		54.73	76.24	0.00	0.000	0.000
2/28/1994	9.69	20.13	2.08		55.01	76.80	0.00	0.000	0.000
3/31/1994	6.55	16.37	2.50		55.21	77.31	0.00	0.000	0.000
4/30/1994	4.97	15.16	3.05		55.36	77.76	0.00	0.000	0.000
5/31/1994	7.44	17.12	2.30		55.59	78.29	0.00	0.000	0.000
6/30/1994	3.79	13.67	3.60		55.70	78.70	0.00	0.000	0.000
7/31/1994	10.51	18.83	1.79		56.03	79.29	0.00	0.000	0.000
8/31/1994	8.95	17.86	1.99		56.31	79.84	0.00	0.000	0.000
9/30/1994	15.79	26.38	1.67		56.78	80.63	0.00	0.000	0.000
10/31/1994	14.27	24.52	1.72		57.22	81.39	0.00	0.000	0.000
11/30/1994	15.01	25.82	1.72		57.67	82.17	0.00	0.000	0.000
12/31/1994	14.27	24.65	1.73		58.11	82.93	0.00	0.000	0.000
1/31/1995	13.79	25.46	1.85		58.54	83.72	0.00	0.000	0.000
2/28/1995	13.44	25.15	1.87		58.92	84.43	0.00	0.000	0.000
3/31/1995	13.12	25.34	1.93		59.33	85.21	0.00	0.000	0.000
4/30/1995	12.93	26.07	2.02		59.71	85.99	0.00	0.000	0.000
5/31/1995	12.95	22.70	1.75		60.11	86.70	0.00	0.000	0.000
6/30/1995	12.72	22.84	1.80		60.50	87.38	0.00	0.000	0.000
7/31/1995	12.88	22.87	1.78		60.90	88.09	0.00	0.000	0.000
8/31/1995	12.39	21.71	1.75		61.28	88.76	0.00	0.000	0.000
9/30/1995	12.69	23.65	1.86		61.66	89.47	0.00	0.000	0.000
10/31/1995	12.16	24.27	2.00		62.04	90.23	0.00	0.000	0.000
11/30/1995	11.88	24.79	2.09		62.39	90.97	0.00	0.000	0.000
12/31/1995	11.67	24.12	2.07		62.76	91.72	0.00	0.000	0.000
1/31/1996	11.42	24.86	2.18		63.11	92.49	0.00	0.000	0.000
2/29/1996	11.34	24.69	2.18		63.44	93.20	0.00	0.000	0.000
3/31/1996	11.47	25.95	2.26		63.79	94.01	0.00	0.000	0.000
4/30/1996	11.45	18.88	1.65		64.14	94.58	0.00	0.000	0.000
5/31/1996	11.77	25.68	2.18		64.50	95.37	0.00	0.000	0.000
6/30/1996	10.77	24.62	2.29		64.83	96.11	0.00	0.000	0.000
7/31/1996	10.71	26.85	2.51		65.16	96.94	0.00	0.000	0.000
8/31/1996	11.36	31.17	2.74		65.51	97.91	0.00	0.000	0.000
9/30/1996	11.49	31.40	2.73		65.85	98.85	0.00	0.000	0.000
10/31/1996	11.39	31.67	2.78		66.21	99.83	0.00	0.000	0.000
11/30/1996	11.31	31.36	2.77		66.55	100.77	0.00	0.000	0.000
12/31/1996	11.46	31.92	2.79		66.90	101.76	0.00	0.000	0.000
1/31/1997	9.56	29.78	3.11		67.20	102.69	0.00	0.000	0.000
2/28/1997	11.00	31.66	2.88		67.51	103.57	0.00	0.000	0.000
3/31/1997	10.61	31.78	2.99		67.84	104.56	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
4/30/1997	12.94	41.82	3.23		68.22	105.81	0.00	0.000	0.000
5/31/1997	13.48	41.21	3.06		68.64	107.09	0.00	0.000	0.000
6/30/1997	13.98	43.48	3.11		69.06	108.39	0.00	0.000	0.000
7/31/1997	13.62	41.52	3.05		69.48	109.68	0.00	0.000	0.000
8/31/1997	13.25	35.35	2.67		69.89	110.78	0.00	0.000	0.000
9/30/1997	13.43	37.18	2.77		70.30	111.89	0.00	0.000	0.000
10/31/1997	12.03	36.25	3.01		70.67	113.02	0.00	0.000	0.000
11/30/1997	13.50	35.96	2.66		71.07	114.10	0.00	0.000	0.000
12/31/1997	13.12	36.27	2.76		71.48	115.22	0.00	0.000	0.000
1/31/1998	12.76	36.54	2.86		71.88	116.35	0.00	0.000	0.000
2/28/1998	12.62	35.11	2.78		72.23	117.34	0.00	0.000	0.000
3/31/1998	12.25	32.99	2.69		72.61	118.36	0.00	0.000	0.000
4/30/1998	11.77	34.94	2.97		72.96	119.41	0.00	0.000	0.000
5/31/1998	11.49	68.50	5.96		73.32	121.53	0.00	0.000	0.000
6/30/1998	11.27	36.28	3.22		73.66	122.62	0.00	0.000	0.000
7/31/1998	11.00	38.21	3.47		74.00	123.80	0.00	0.000	0.000
8/31/1998	10.89	35.84	3.29		74.34	124.91	0.00	0.000	0.000
9/30/1998	10.48	36.75	3.51		74.65	126.02	0.00	0.000	0.000
10/31/1998	10.39	36.14	3.48		74.97	127.14	0.00	0.000	0.000
11/30/1998	10.13	36.68	3.62		75.28	128.24	0.00	0.000	0.000
12/31/1998	9.65	38.45	3.99		75.58	129.43	0.00	0.000	0.000
1/31/1999	9.00	38.38	4.26		75.85	130.62	0.00	0.000	0.000
2/28/1999	9.38	44.77	4.77		76.12	131.87	0.00	0.000	0.000
3/31/1999	17.66	71.06	4.02		76.66	134.08	0.00	0.000	0.000
4/30/1999	17.55	83.31	4.75		77.19	136.57	0.00	0.000	0.000
5/31/1999	13.61	77.47	5.69		77.61	138.98	0.00	0.000	0.000
6/30/1999	11.14	73.92	6.64		77.95	141.19	0.00	0.000	0.000
7/31/1999	10.39	78.55	7.56		78.27	143.63	0.00	0.000	0.000
8/31/1999	9.39	74.60	7.95		78.56	145.94	0.00	0.000	0.000
9/30/1999	9.74	75.55	7.76		78.85	148.21	0.00	0.000	0.000
10/31/1999	9.28	75.20	8.10		79.14	150.54	0.00	0.000	0.000
11/30/1999	8.05	45.25	5.62		79.38	151.90	0.00	0.000	0.000
12/31/1999	9.09	85.27	9.38		79.66	154.54	0.00	0.000	0.000
1/31/2000	9.20	92.26	10.02		79.95	157.40	0.00	0.000	0.000
2/29/2000	8.81	93.73	10.64		80.20	160.12	0.00	0.000	0.000
3/31/2000	8.93	95.48	10.70		80.48	163.08	0.00	0.000	0.000
4/30/2000	8.15	93.71	11.49		80.73	165.89	0.00	0.000	0.000
5/31/2000	8.49	96.22	11.33		80.99	168.87	0.00	0.000	0.000
6/30/2000	8.97	107.62	12.00		81.26	172.10	0.00	0.000	0.000
7/31/2000	8.51	98.89	11.62		81.52	175.17	0.00	0.000	0.000
8/31/2000	8.89	98.67	11.10		81.80	178.23	0.00	0.000	0.000
9/30/2000	8.49	95.54	11.25		82.05	181.09	0.00	0.000	0.000
10/31/2000	8.17	92.98	11.37		82.31	183.97	0.00	0.000	0.000
11/30/2000	7.98	93.50	11.72	2.07	82.55	186.78	0.06	0.020	0.000
12/31/2000	8.17	94.24	11.53	24.90	82.80	189.70	0.83	0.242	0.003
1/31/2001	8.91	94.24	10.57	27.39	83.08	192.62	1.68	0.264	0.006
2/28/2001	8.77	101.15	11.53	35.21	83.32	195.45	2.67	0.319	0.009
3/31/2001	8.64	101.34	11.74	32.74	83.59	198.60	3.68	0.297	0.013

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
4/30/2001	8.77	102.43	11.68	36.83	83.85	201.67	4.79	0.330	0.017
5/31/2001	8.49	102.36	12.06	37.06	84.11	204.84	5.94	0.333	0.020
6/30/2001	7.54	103.27	13.70	36.30	84.34	207.94	7.03	0.326	0.024
7/31/2001	8.19	101.66	12.42	35.87	84.59	211.09	8.14	0.325	0.027
8/31/2001	8.30	102.48	12.35	35.39	84.85	214.27	9.24	0.318	0.030
9/30/2001	8.02	106.50	13.28	30.87	85.09	217.46	10.16	0.269	0.033
10/31/2001	7.96	107.16	13.46	26.42	85.34	220.78	10.98	0.229	0.035
11/30/2001	7.61	102.80	13.51	26.80	85.57	223.87	11.79	0.242	0.038
12/31/2001	7.22	102.95	14.26	27.06	85.79	227.06	12.62	0.245	0.040
1/31/2002	6.89	101.77	14.78	27.52	86.00	230.22	13.48	0.252	0.042
2/28/2002	6.75	97.66	14.47	26.18	86.19	232.95	14.21	0.250	0.044
3/31/2002	6.57	98.15	14.94	28.68	86.40	235.99	15.10	0.273	0.046
4/30/2002	6.48	101.70	15.70	37.13	86.59	239.04	16.21	0.342	0.049
5/31/2002	6.15	102.47	16.68	40.26	86.78	242.22	17.46	0.370	0.052
6/30/2002	6.16	102.98	16.71	38.03	86.97	245.31	18.60	0.347	0.055
7/31/2002	6.15	108.08	17.58	37.29	87.16	248.66	19.76	0.326	0.058
8/31/2002	5.86	108.35	18.50	37.71	87.34	252.02	20.93	0.329	0.061
9/30/2002	5.93	107.03	18.04	37.90	87.52	255.23	22.06	0.335	0.064
10/31/2002	5.93	106.74	17.99	39.26	87.70	258.54	23.28	0.348	0.066
11/30/2002	5.56	107.66	19.36	38.60	87.87	261.77	24.44	0.340	0.069
12/31/2002	5.41	107.59	19.89	39.10	88.04	265.10	25.65	0.345	0.072
1/31/2003	5.17	107.71	20.82	39.19	88.20	268.44	26.87	0.346	0.074
2/28/2003	5.28	109.01	20.66	39.75	88.34	271.49	27.98	0.347	0.077
3/31/2003	5.50	111.60	20.29	38.26	88.51	274.95	29.16	0.326	0.079
4/30/2003	5.46	112.48	20.60	39.37	88.68	278.33	30.35	0.333	0.082
5/31/2003	5.45	112.11	20.57	37.61	88.85	281.80	31.51	0.319	0.084
6/30/2003	5.39	115.42	21.43	36.67	89.01	285.27	32.61	0.303	0.086
7/31/2003	5.10	113.67	22.27	37.00	89.17	288.79	33.76	0.311	0.088
8/31/2003	5.17	115.32	22.32	39.23	89.33	292.37	34.98	0.325	0.091
9/30/2003	5.17	106.71	20.65	38.50	89.48	295.57	36.13	0.343	0.093
10/31/2003	4.94	108.75	22.01	39.52	89.64	298.94	37.35	0.347	0.095
11/30/2003	4.95	110.80	22.40	40.03	89.78	302.26	38.56	0.345	0.097
12/31/2003	5.02	110.05	21.93	39.45	89.94	305.67	39.78	0.342	0.099
1/31/2004	4.45	108.65	24.39	38.48	90.08	309.04	40.97	0.340	0.102
2/29/2004	5.07	110.00	21.72	38.76	90.22	312.23	42.10	0.336	0.103
3/31/2004	4.85	108.41	22.33	39.06	90.38	315.59	43.31	0.344	0.106
4/30/2004	3.63	100.15	27.56	39.17	90.48	318.60	44.48	0.377	0.108
5/31/2004	3.35	88.97	26.55	37.61	90.59	321.36	45.65	0.407	0.110
6/30/2004	2.93	77.69	26.49	41.67	90.68	323.69	46.90	0.516	0.112
7/31/2004	2.42	78.20	32.37	39.90	90.75	326.11	48.13	0.494	0.114
8/31/2004	2.34	72.16	30.81	38.68	90.82	328.35	49.33	0.518	0.116
9/30/2004	2.39	73.04	30.60	41.30	90.90	330.54	50.57	0.547	0.119
10/31/2004	2.39	71.75	30.06	41.81	90.97	332.76	51.87	0.563	0.121
11/30/2004	2.19	71.69	32.74	42.80	91.03	334.91	53.15	0.578	0.123
12/31/2004	2.06	70.45	34.23	43.68	91.10	337.10	54.51	0.602	0.126
1/31/2005	2.01	69.88	34.77	47.74	91.16	339.26	55.99	0.663	0.129
2/28/2005	1.94	71.64	36.88	47.54	91.22	341.27	57.32	0.645	0.131
3/31/2005	1.85	70.87	38.41	49.00	91.27	343.47	58.84	0.673	0.134

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
4/30/2005	1.88	72.21	38.34	43.43	91.33	345.63	60.14	0.585	0.136
5/31/2005	1.79	70.76	39.59	49.87	91.38	347.83	61.69	0.687	0.139
6/30/2005	1.74	68.50	39.44	47.80	91.44	349.88	63.12	0.680	0.142
7/31/2005	1.69	66.70	39.38	48.55	91.49	351.95	64.63	0.709	0.144
8/31/2005	1.63	63.35	38.89	41.00	91.54	353.91	65.90	0.630	0.146
9/30/2005	1.61	61.50	38.28	43.30	91.59	355.76	67.19	0.685	0.149
10/31/2005	1.56	61.08	39.12	42.68	91.64	357.65	68.52	0.680	0.151
11/30/2005	1.55	62.94	40.61	48.20	91.68	359.54	69.96	0.746	0.153
12/31/2005	1.42	61.01	42.98	50.03	91.73	361.43	71.52	0.801	0.156
1/31/2006	1.40	61.83	44.16	51.23	91.77	363.35	73.10	0.809	0.159
2/28/2006	1.36	61.49	45.31	50.54	91.81	365.07	74.52	0.803	0.161
3/31/2006	1.37	63.48	46.41	50.52	91.85	367.04	76.08	0.778	0.164
4/30/2006	1.28	59.99	46.75	47.47	91.89	368.84	77.51	0.774	0.167
5/31/2006	1.41	62.51	44.44	48.42	91.93	370.77	79.01	0.757	0.169
6/30/2006	1.38	65.20	47.25	50.17	91.97	372.73	80.51	0.753	0.172
7/31/2006	1.27	64.30	50.46	48.03	92.01	374.72	82.00	0.732	0.174
8/31/2006	1.21	62.73	51.99	51.23	92.05	376.67	83.59	0.800	0.177
9/30/2006	1.20	64.43	53.54	48.23	92.09	378.60	85.04	0.734	0.179
10/31/2006	1.16	65.41	56.48	50.32	92.12	380.63	86.60	0.755	0.181
11/30/2006	1.22	64.79	53.25	53.13	92.16	382.57	88.19	0.804	0.184
12/31/2006	1.33	68.03	51.31	54.19	92.20	384.68	89.87	0.781	0.187
1/31/2007	1.27	70.29	55.31	54.39	92.24	386.86	91.56	0.759	0.189
2/28/2007	1.23	68.93	56.27	48.57	92.27	388.79	92.92	0.692	0.191
3/31/2007	1.24	68.63	55.41	47.81	92.31	390.92	94.40	0.684	0.194
4/30/2007	1.23	68.64	55.96	51.37	92.35	392.98	95.94	0.735	0.196
5/31/2007	1.23	67.83	55.34	49.65	92.39	395.08	97.48	0.718	0.198
6/30/2007	1.22	65.90	53.87	48.77	92.42	397.06	98.94	0.726	0.200
7/31/2007	1.17	66.68	57.10	47.42	92.46	399.12	100.41	0.698	0.202
8/31/2007	1.21	67.76	56.02	50.77	92.50	401.23	101.99	0.736	0.205
9/30/2007	1.26	65.04	51.76	54.57	92.54	403.18	103.62	0.822	0.207
10/31/2007	1.18	62.23	52.70	49.39	92.57	405.11	105.16	0.778	0.209
11/30/2007	0.98	51.88	53.12	53.73	92.60	406.66	106.77	1.016	0.212
12/31/2007	0.71	40.04	56.16	49.13	92.62	407.90	108.29	1.205	0.214
1/31/2008	1.19	71.07	59.87	54.55	92.66	410.11	109.98	0.754	0.217
2/29/2008	1.32	67.90	51.28	53.24	92.70	412.07	111.53	0.768	0.219
3/31/2008	1.50	68.93	45.95	54.90	92.75	414.21	113.23	0.779	0.221
4/30/2008	1.49	69.02	46.43	57.77	92.79	416.28	114.96	0.818	0.224
5/31/2008	1.56	65.69	42.08	54.52	92.84	418.32	116.65	0.810	0.226
6/30/2008	1.54	61.35	39.92	55.40	92.88	420.16	118.31	0.880	0.229
7/31/2008	1.64	61.60	37.66	57.23	92.93	422.07	120.09	0.904	0.231
8/31/2008	1.55	62.05	39.91	52.19	92.98	423.99	121.70	0.820	0.233
9/30/2008	1.66	61.87	37.35	55.80	93.03	425.85	123.38	0.877	0.236
10/31/2008	1.69	61.14	36.10	50.23	93.09	427.74	124.94	0.798	0.238
11/30/2008	1.72	55.97	32.61	57.07	93.14	429.42	126.65	0.988	0.240
12/31/2008	1.48	49.62	33.44	41.65	93.18	430.96	127.94	0.814	0.242
1/31/2009	1.56	51.51	33.06	50.19	93.23	432.56	129.49	0.945	0.244
2/28/2009	1.58	51.81	32.75	52.75	93.28	434.01	130.97	0.986	0.246
3/31/2009	1.53	53.25	34.90	51.81	93.32	435.66	132.58	0.944	0.248

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
4/30/2009	1.59	53.09	33.46	53.17	93.37	437.25	134.17	0.971	0.251
5/31/2009	0.92	30.23	33.00	53.52	93.40	438.19	135.83	1.716	0.253
6/30/2009	0.41	14.95	36.47	53.13	93.41	438.64	137.43	3.454	0.256
7/31/2009	1.67	55.90	33.39	52.29	93.46	440.37	139.05	0.907	0.258
8/31/2009	1.60	55.30	34.56	53.23	93.51	442.09	140.70	0.934	0.260
9/30/2009	1.53	54.33	35.43	54.63	93.56	443.71	142.34	0.977	0.263
10/31/2009	1.33	54.16	40.85	52.97	93.60	445.39	143.98	0.953	0.265
11/30/2009	1.26	51.85	41.04	48.07	93.64	446.95	145.42	0.904	0.267
12/31/2009	1.27	54.52	42.79	48.68	93.68	448.64	146.93	0.871	0.269
1/31/2010	1.26	54.47	43.08	48.10	93.72	450.33	148.42	0.862	0.270
2/28/2010	1.25	52.24	41.91	48.89	93.75	451.79	149.79	0.913	0.272
3/31/2010	1.32	53.58	40.71	49.71	93.79	453.45	151.33	0.904	0.274
4/30/2010	1.27	53.28	41.95	52.00	93.83	455.05	152.89	0.952	0.276
5/31/2010	1.28	53.20	41.54	52.81	93.87	456.70	154.53	0.968	0.278
6/30/2010	1.23	50.03	40.78	49.17	93.91	458.20	156.00	0.958	0.280
7/31/2010	1.07	48.42	45.35	42.16	93.94	459.70	157.31	0.851	0.282
8/31/2010	1.59	59.06	37.14	46.74	93.99	461.53	158.76	0.770	0.283
9/30/2010	2.13	68.89	32.39	49.70	94.05	463.60	160.25	0.699	0.285
10/31/2010	2.11	66.08	31.37	50.90	94.12	465.65	161.83	0.745	0.287
11/30/2010	1.98	63.84	32.24	48.10	94.18	467.56	163.27	0.730	0.288
12/31/2010	1.98	63.32	31.92	47.13	94.24	469.53	164.73	0.721	0.290

# Pattern: 02-17-006-22 Set: Souris Hartney Unit

Oil Formation Vol. Factor : 1.05 m3/m3

Water Formation Vol Factor : 1.00 m3/m3

Water / Oil Ratio : 32.51 m3/m3

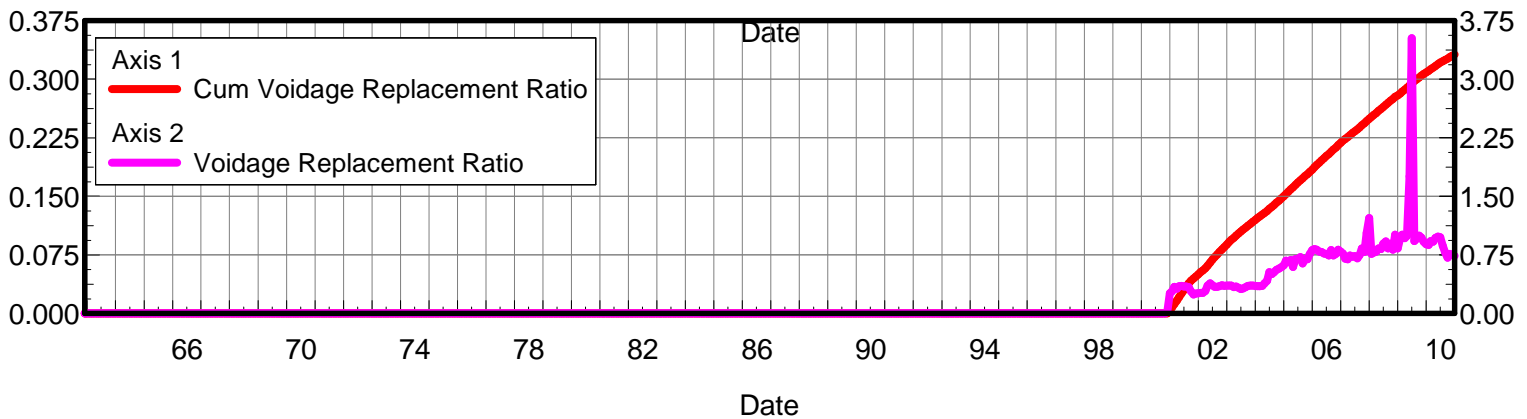
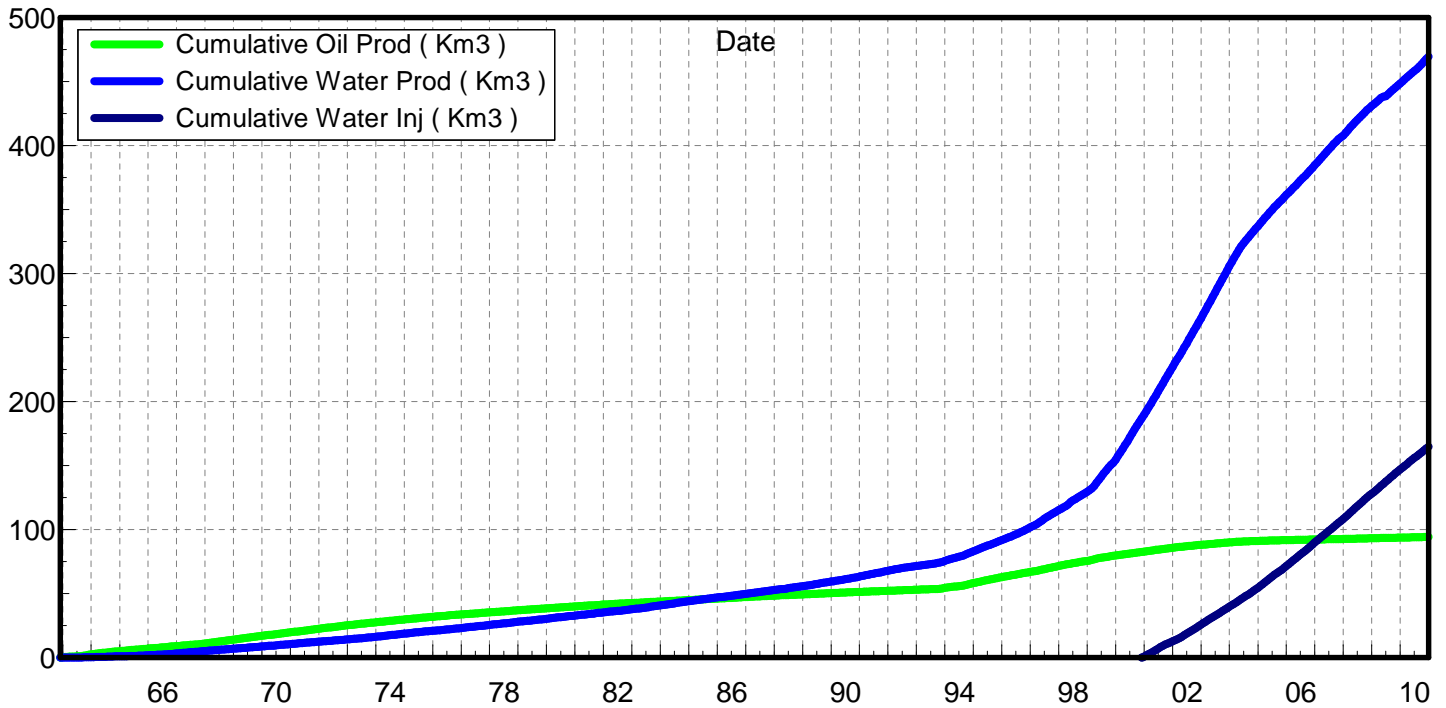
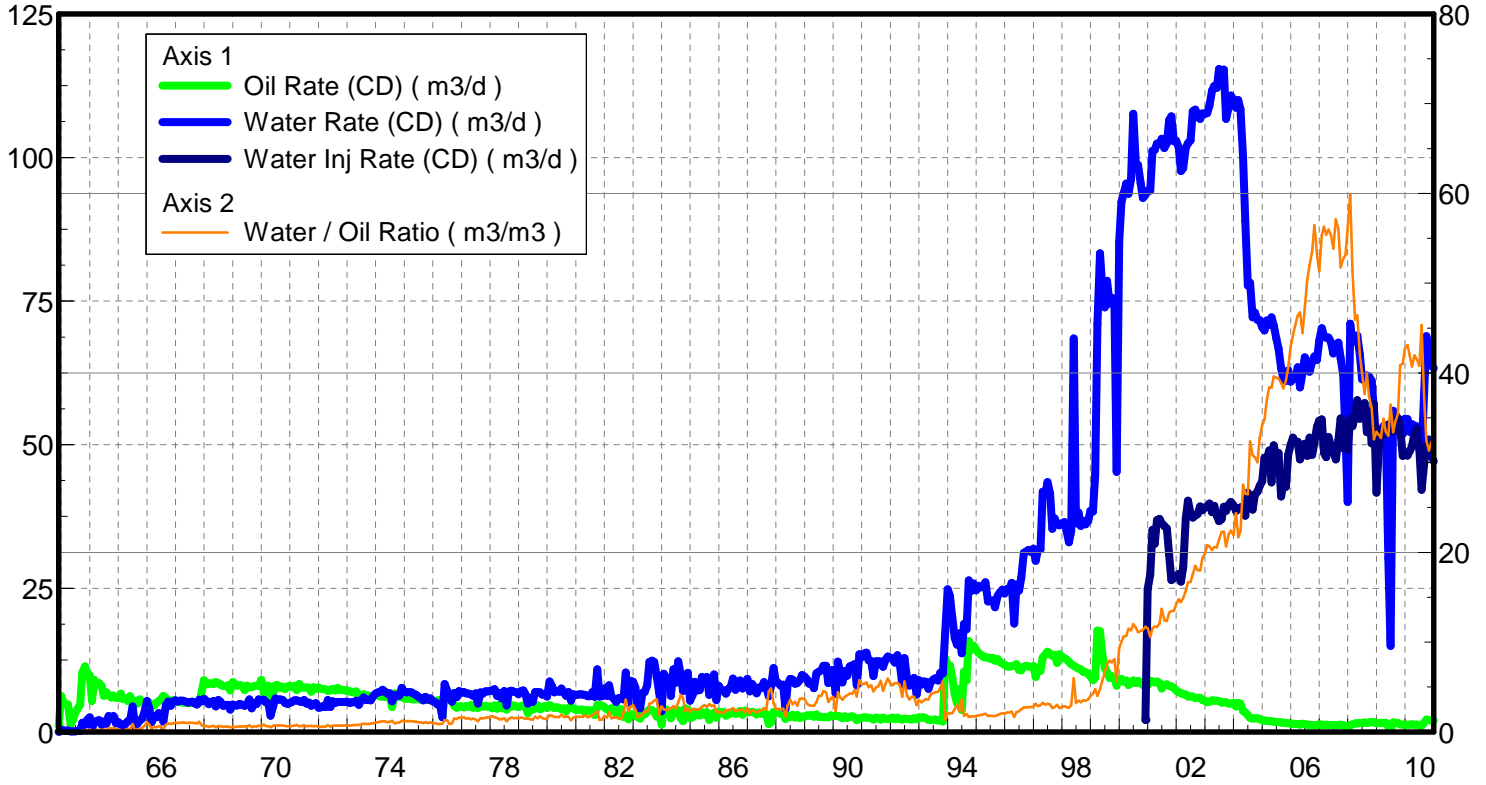
July 20, 2011

Operator: Tundra\_Oil\_and\_Gas\_Patnership

Oil Rate (CD) : 1.92 m3/d

Water Rate (CD) : 62.51 m3/d

Water Inj Rate (CD) : 46.84 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
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
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

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
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
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

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
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
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



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
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
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

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
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

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4/30/1985	2.17	19.10	8.80		50.21	143.79	0.00	0.000	0.000
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

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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
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

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
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	14.89	45.83	3.08		57.12	217.26	0.00	0.000	0.000
12/31/1993	15.58	67.55	4.34		57.60	219.35	0.00	0.000	0.000
1/31/1994	14.25	67.07	4.71		58.04	221.43	0.00	0.000	0.000
2/28/1994	12.36	64.03	5.18		58.39	223.22	0.00	0.000	0.000
3/31/1994	6.41	39.34	6.14		58.59	224.44	0.00	0.000	0.000
4/30/1994	4.98	37.97	7.62		58.74	225.58	0.00	0.000	0.000
5/31/1994	7.31	39.75	5.44		58.96	226.81	0.00	0.000	0.000
6/30/1994	3.02	21.39	7.09		59.05	227.45	0.00	0.000	0.000
7/31/1994	12.93	37.52	2.90		59.45	228.62	0.00	0.000	0.000
8/31/1994	13.61	59.88	4.40		59.88	230.47	0.00	0.000	0.000
9/30/1994	20.89	80.05	3.83		60.50	232.88	0.00	0.000	0.000
10/31/1994	19.46	77.75	3.99		61.11	235.29	0.00	0.000	0.000
11/30/1994	19.00	74.05	3.90		61.68	237.51	0.00	0.000	0.000
12/31/1994	19.54	77.47	3.96		62.28	239.91	0.00	0.000	0.000
1/31/1995	18.28	73.74	4.03		62.85	242.19	0.00	0.000	0.000
2/28/1995	17.95	75.16	4.19		63.35	244.30	0.00	0.000	0.000
3/31/1995	17.35	74.14	4.27		63.89	246.60	0.00	0.000	0.000
4/30/1995	17.25	76.49	4.43		64.41	248.89	0.00	0.000	0.000
5/31/1995	17.01	74.71	4.39		64.93	251.21	0.00	0.000	0.000
6/30/1995	16.41	74.23	4.52		65.43	253.43	0.00	0.000	0.000
7/31/1995	16.24	73.14	4.50		65.93	255.70	0.00	0.000	0.000
8/31/1995	16.12	75.55	4.69		66.43	258.04	0.00	0.000	0.000
9/30/1995	16.27	75.11	4.62		66.92	260.30	0.00	0.000	0.000
10/31/1995	15.65	76.18	4.87		67.40	262.66	0.00	0.000	0.000
11/30/1995	15.12	74.68	4.94		67.86	264.90	0.00	0.000	0.000
12/31/1995	14.76	74.55	5.05		68.31	267.21	0.00	0.000	0.000
1/31/1996	14.28	75.20	5.26		68.76	269.54	0.00	0.000	0.000
2/29/1996	14.48	75.29	5.20		69.18	271.73	0.00	0.000	0.000
3/31/1996	14.46	76.41	5.28		69.63	274.09	0.00	0.000	0.000
4/30/1996	14.76	82.90	5.62		70.07	276.58	0.00	0.000	0.000
5/31/1996	14.45	72.97	5.05		70.52	278.84	0.00	0.000	0.000
6/30/1996	14.10	78.23	5.55		70.94	281.19	0.00	0.000	0.000
7/31/1996	13.61	83.27	6.12		71.36	283.77	0.00	0.000	0.000
8/31/1996	13.96	80.02	5.73		71.79	286.25	0.00	0.000	0.000
9/30/1996	14.16	81.31	5.74		72.22	288.69	0.00	0.000	0.000
10/31/1996	14.16	81.87	5.78		72.66	291.23	0.00	0.000	0.000
11/30/1996	13.97	80.66	5.77		73.08	293.65	0.00	0.000	0.000
12/31/1996	13.77	81.30	5.90		73.50	296.17	0.00	0.000	0.000
1/31/1997	11.62	78.33	6.74		73.86	298.60	0.00	0.000	0.000
2/28/1997	13.30	80.64	6.06		74.24	300.86	0.00	0.000	0.000
3/31/1997	13.02	80.71	6.20		74.64	303.36	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
4/30/1997	15.97	98.55	6.17		75.12	306.31	0.00	0.000	0.000
5/31/1997	17.04	92.16	5.41		75.65	309.17	0.00	0.000	0.000
6/30/1997	16.41	92.44	5.63		76.14	311.94	0.00	0.000	0.000
7/31/1997	15.85	86.65	5.47		76.63	314.63	0.00	0.000	0.000
8/31/1997	15.37	84.01	5.47		77.11	317.23	0.00	0.000	0.000
9/30/1997	15.42	82.16	5.33		77.57	319.70	0.00	0.000	0.000
10/31/1997	13.62	76.67	5.63		77.99	322.08	0.00	0.000	0.000
11/30/1997	14.86	64.57	4.35		78.44	324.01	0.00	0.000	0.000
12/31/1997	14.63	66.83	4.57		78.89	326.08	0.00	0.000	0.000
1/31/1998	14.09	64.87	4.60		79.33	328.10	0.00	0.000	0.000
2/28/1998	13.93	62.33	4.47		79.72	329.84	0.00	0.000	0.000
3/31/1998	13.56	58.84	4.34		80.14	331.67	0.00	0.000	0.000
4/30/1998	13.10	61.49	4.70		80.53	333.51	0.00	0.000	0.000
5/31/1998	12.76	120.37	9.43		80.93	337.24	0.00	0.000	0.000
6/30/1998	12.53	63.80	5.09		81.30	339.16	0.00	0.000	0.000
7/31/1998	12.23	67.15	5.49		81.68	341.24	0.00	0.000	0.000
8/31/1998	12.09	62.56	5.18		82.06	343.18	0.00	0.000	0.000
9/30/1998	11.64	64.61	5.55		82.41	345.11	0.00	0.000	0.000
10/31/1998	11.54	63.52	5.50		82.76	347.08	0.00	0.000	0.000
11/30/1998	11.18	61.43	5.49		83.10	348.93	0.00	0.000	0.000
12/31/1998	10.77	61.68	5.73		83.43	350.84	0.00	0.000	0.000
1/31/1999	9.99	60.58	6.06		83.74	352.72	0.00	0.000	0.000
2/28/1999	10.10	55.41	5.48		84.03	354.27	0.00	0.000	0.000
3/31/1999	9.45	49.59	5.25		84.32	355.81	0.00	0.000	0.000
4/30/1999	9.07	70.85	7.81		84.59	357.93	0.00	0.000	0.000
5/31/1999	7.87	62.66	7.96		84.83	359.87	0.00	0.000	0.000
6/30/1999	7.07	60.74	8.59		85.05	361.70	0.00	0.000	0.000
7/31/1999	8.14	68.13	8.37		85.30	363.81	0.00	0.000	0.000
8/31/1999	7.49	69.13	9.23		85.53	365.95	0.00	0.000	0.000
9/30/1999	6.74	69.58	10.32		85.73	368.04	0.00	0.000	0.000
10/31/1999	6.40	68.13	10.64		85.93	370.15	0.00	0.000	0.000
11/30/1999	5.40	40.42	7.48	10.37	86.09	371.36	0.31	0.225	0.001
12/31/1999	6.78	81.21	11.98	36.10	86.30	373.88	1.43	0.409	0.003
1/31/2000	7.22	86.83	12.02	48.71	86.53	376.57	2.94	0.516	0.006
2/29/2000	7.04	89.68	12.74	48.72	86.73	379.17	4.35	0.502	0.009
3/31/2000	6.45	91.15	14.14	48.94	86.93	382.00	5.87	0.500	0.012
4/30/2000	5.59	89.76	16.05	48.63	87.10	384.69	7.33	0.509	0.015
5/31/2000	5.37	82.75	15.41	48.26	87.27	387.26	8.82	0.546	0.018
6/30/2000	7.22	103.35	14.31	50.00	87.48	390.36	10.32	0.451	0.021
7/31/2000	7.14	97.11	13.61	49.71	87.70	393.37	11.87	0.475	0.024
8/31/2000	7.19	93.78	13.04	48.90	87.93	396.28	13.38	0.483	0.027
9/30/2000	6.66	91.85	13.78	42.33	88.13	399.03	14.65	0.428	0.030
10/31/2000	6.17	92.90	15.06	47.74	88.32	401.91	16.13	0.480	0.033
11/30/2000	5.88	93.60	15.91	46.40	88.49	404.72	17.52	0.465	0.035
12/31/2000	6.28	93.79	14.93	44.29	88.69	407.63	18.90	0.441	0.038
1/31/2001	6.30	93.78	14.89	42.10	88.88	410.53	20.20	0.419	0.040
2/28/2001	6.58	99.51	15.13	53.82	89.07	413.32	21.71	0.506	0.043
3/31/2001	6.61	98.50	14.91	48.48	89.27	416.37	23.21	0.460	0.046

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4/30/2001	6.70	100.20	14.95	50.77	89.47	419.38	24.73	0.473	0.048
5/31/2001	6.28	97.81	15.57	48.29	89.67	422.41	26.23	0.463	0.051
6/30/2001	5.61	98.33	17.54	46.53	89.84	425.36	27.63	0.447	0.053
7/31/2001	5.97	95.13	15.93	46.90	90.02	428.31	29.08	0.463	0.056
8/31/2001	6.12	96.67	15.81	46.23	90.21	431.31	30.52	0.448	0.058
9/30/2001	5.61	91.82	16.37	43.60	90.38	434.06	31.82	0.446	0.060
10/31/2001	6.01	97.21	16.17	42.16	90.57	437.08	33.13	0.407	0.062
11/30/2001	5.63	98.47	17.49	42.90	90.74	440.03	34.42	0.411	0.064
12/31/2001	5.33	97.66	18.33	43.58	90.90	443.06	35.77	0.422	0.066
1/31/2002	5.17	95.91	18.55	40.32	91.06	446.03	37.02	0.398	0.068
2/28/2002	5.09	92.07	18.08	35.93	91.20	448.61	38.02	0.369	0.070
3/31/2002	4.96	93.30	18.80	37.13	91.36	451.50	39.17	0.377	0.072
4/30/2002	4.71	93.22	19.81	40.07	91.50	454.30	40.38	0.408	0.073
5/31/2002	4.51	97.45	21.61	38.97	91.64	457.32	41.59	0.381	0.075
6/30/2002	4.53	96.76	21.38	36.83	91.77	460.22	42.69	0.363	0.077
7/31/2002	4.39	99.28	22.61	35.03	91.91	463.30	43.78	0.337	0.078
8/31/2002	4.22	101.62	24.06	40.10	92.04	466.45	45.02	0.378	0.080
9/30/2002	4.54	98.63	21.74	41.07	92.18	469.41	46.25	0.397	0.082
10/31/2002	4.29	98.50	22.96	40.84	92.31	472.46	47.52	0.396	0.083
11/30/2002	4.30	100.35	23.34	41.47	92.44	475.47	48.76	0.395	0.085
12/31/2002	4.28	100.52	23.47	40.52	92.57	478.59	50.02	0.386	0.087
1/31/2003	4.17	102.57	24.61	40.94	92.70	481.77	51.29	0.383	0.089
2/28/2003	4.17	101.29	24.28	41.07	92.82	484.60	52.44	0.389	0.090
3/31/2003	4.10	102.55	25.01	41.58	92.95	487.78	53.73	0.389	0.092
4/30/2003	3.96	103.49	26.13	42.50	93.06	490.89	55.00	0.395	0.093
5/31/2003	4.24	104.03	24.54	47.45	93.20	494.11	56.47	0.437	0.095
6/30/2003	4.19	104.98	25.05	46.17	93.32	497.26	57.86	0.422	0.097
7/31/2003	4.34	105.73	24.35	47.61	93.46	500.54	59.33	0.432	0.099
8/31/2003	4.25	105.78	24.92	47.55	93.59	503.82	60.81	0.431	0.101
9/30/2003	4.03	99.10	24.57	39.87	93.71	506.79	62.00	0.386	0.102
10/31/2003	3.81	100.17	26.29	42.35	93.83	509.90	63.31	0.407	0.104
11/30/2003	3.92	102.76	26.24	42.20	93.94	512.98	64.58	0.395	0.106
12/31/2003	3.99	102.84	25.77	41.19	94.07	516.17	65.86	0.385	0.107
1/31/2004	3.44	100.21	29.11	38.42	94.17	519.27	67.05	0.370	0.108
2/29/2004	3.90	100.97	25.91	41.55	94.29	522.20	68.25	0.395	0.110
3/31/2004	3.69	98.96	26.84	42.81	94.40	525.27	69.58	0.416	0.111
4/30/2004	2.37	93.21	39.38	44.03	94.47	528.07	70.90	0.460	0.113
5/31/2004	2.12	81.57	38.43	35.74	94.54	530.59	72.01	0.427	0.114
6/30/2004	1.76	71.37	40.47	34.37	94.59	532.74	73.04	0.469	0.116
7/31/2004	1.53	68.07	44.43	28.42	94.64	534.85	73.92	0.408	0.117
8/31/2004	1.46	59.99	40.96	31.65	94.68	536.71	74.90	0.514	0.118
9/30/2004	1.63	67.04	41.21	39.17	94.73	538.72	76.08	0.570	0.119
10/31/2004	1.62	65.59	40.58	40.68	94.78	540.75	77.34	0.605	0.121
11/30/2004	1.53	63.79	41.79	41.63	94.83	542.66	78.59	0.637	0.122
12/31/2004	1.53	60.78	39.84	40.68	94.88	544.55	79.85	0.652	0.124
1/31/2005	1.53	59.39	38.92	36.45	94.92	546.39	80.98	0.598	0.125
2/28/2005	1.43	59.15	41.30	40.11	94.96	548.05	82.10	0.661	0.127
3/31/2005	1.39	59.85	43.05	36.35	95.01	549.90	83.23	0.593	0.128

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4/30/2005	1.40	60.27	43.05	37.60	95.05	551.71	84.36	0.609	0.129
5/31/2005	1.31	58.41	44.71	38.00	95.09	553.52	85.53	0.636	0.131
6/30/2005	1.24	56.27	45.38	35.07	95.13	555.21	86.59	0.609	0.132
7/31/2005	1.24	55.92	45.14	36.87	95.16	556.94	87.73	0.644	0.134
8/31/2005	1.20	53.41	44.63	42.35	95.20	558.60	89.04	0.775	0.135
9/30/2005	1.16	51.12	43.94	34.17	95.24	560.13	90.07	0.653	0.136
10/31/2005	1.15	51.62	44.95	37.39	95.27	561.73	91.23	0.708	0.138
11/30/2005	1.15	53.65	46.79	37.43	95.31	563.34	92.35	0.682	0.139
12/31/2005	1.09	54.48	49.96	35.94	95.34	565.03	93.46	0.646	0.141
1/31/2006	1.05	54.06	51.25	35.35	95.37	566.70	94.56	0.641	0.142
2/28/2006	0.99	52.27	52.84	36.71	95.40	568.17	95.59	0.689	0.143
3/31/2006	1.00	49.24	49.24	30.65	95.43	569.69	96.54	0.609	0.144
4/30/2006	0.95	43.41	45.69	25.70	95.46	571.00	97.31	0.579	0.145
5/31/2006	1.04	45.24	43.55	28.00	95.49	572.40	98.18	0.604	0.146
6/30/2006	1.00	47.03	47.03	27.47	95.52	573.81	99.00	0.571	0.147
7/31/2006	0.96	47.01	49.07	30.55	95.55	575.27	99.95	0.636	0.148
8/31/2006	0.97	47.35	48.93	29.03	95.58	576.74	100.85	0.600	0.149
9/30/2006	0.92	45.30	49.42	26.40	95.61	578.09	101.64	0.571	0.150
10/31/2006	0.86	45.18	52.45	30.48	95.64	579.50	102.58	0.662	0.151
11/30/2006	0.94	46.63	49.78	28.70	95.66	580.89	103.45	0.603	0.152
12/31/2006	1.00	48.06	48.22	31.87	95.70	582.38	104.43	0.649	0.153
1/31/2007	0.94	47.66	50.60	33.10	95.72	583.86	105.46	0.680	0.154
2/28/2007	0.94	47.95	51.05	37.25	95.75	585.20	106.50	0.761	0.155
3/31/2007	0.95	48.80	51.28	33.87	95.78	586.72	107.55	0.680	0.156
4/30/2007	0.94	49.19	52.14	35.80	95.81	588.19	108.63	0.713	0.158
5/31/2007	0.95	48.82	51.65	35.29	95.84	589.71	109.72	0.708	0.159
6/30/2007	0.94	47.27	50.11	32.90	95.87	591.12	110.71	0.682	0.160
7/31/2007	0.90	48.61	54.01	31.48	95.89	592.63	111.68	0.635	0.161
8/31/2007	0.93	49.17	52.74	33.23	95.92	594.16	112.71	0.663	0.162
9/30/2007	0.97	47.21	48.84	26.70	95.95	595.57	113.52	0.554	0.163
10/31/2007	0.91	44.91	49.19	27.65	95.98	596.96	114.37	0.603	0.164
11/30/2007	0.94	47.34	50.18	33.13	96.01	598.38	115.37	0.686	0.165
12/31/2007	0.86	46.05	53.67	32.52	96.04	599.81	116.37	0.693	0.166
1/31/2008	0.89	45.67	51.49	33.23	96.06	601.23	117.40	0.713	0.167
2/29/2008	0.92	45.47	49.57	33.28	96.09	602.55	118.37	0.717	0.168
3/31/2008	1.05	46.57	44.42	35.81	96.12	603.99	119.48	0.751	0.169
4/30/2008	1.10	47.12	42.97	35.40	96.16	605.40	120.54	0.733	0.171
5/31/2008	1.14	47.77	42.07	39.42	96.19	606.88	121.76	0.805	0.172
6/30/2008	1.18	49.47	42.05	35.60	96.23	608.37	122.83	0.702	0.173
7/31/2008	1.25	49.63	39.76	33.90	96.26	609.91	123.88	0.666	0.174
8/31/2008	1.19	49.20	41.33	36.90	96.30	611.43	125.03	0.731	0.175
9/30/2008	1.25	48.23	38.48	33.73	96.34	612.88	126.04	0.681	0.177
10/31/2008	1.19	46.85	39.36	33.03	96.38	614.33	127.06	0.687	0.178
11/30/2008	1.23	46.90	38.02	31.20	96.41	615.74	128.00	0.647	0.179
12/31/2008	1.05	42.01	40.07	36.35	96.45	617.04	129.13	0.843	0.180
1/31/2009	1.16	46.00	39.50	40.42	96.48	618.47	130.38	0.856	0.181
2/28/2009	1.18	44.83	38.03	40.43	96.51	619.72	131.51	0.878	0.182
3/31/2009	1.15	46.27	40.29	41.19	96.55	621.16	132.79	0.868	0.184



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
4/30/2009	1.19	46.02	38.67	38.50	96.59	622.54	133.94	0.814	0.185
5/31/2009	1.13	42.03	37.23	29.39	96.62	623.84	134.85	0.680	0.186
6/30/2009	1.12	43.33	38.58	26.17	96.65	625.14	135.64	0.588	0.187
7/31/2009	1.19	45.68	38.27	27.65	96.69	626.56	136.50	0.589	0.187
8/31/2009	1.18	45.53	38.46	26.55	96.73	627.97	137.32	0.568	0.188
9/30/2009	1.15	46.03	40.14	25.73	96.76	629.35	138.09	0.545	0.189
10/31/2009	1.15	45.30	39.33	28.00	96.80	630.75	138.96	0.602	0.190
11/30/2009	1.16	44.33	38.10	30.83	96.83	632.08	139.88	0.677	0.191
12/31/2009	1.18	44.58	37.86	31.48	96.87	633.46	140.86	0.687	0.192
1/31/2010	1.14	42.83	37.51	30.23	96.90	634.79	141.80	0.686	0.193
2/28/2010	1.18	43.13	36.48	29.82	96.94	636.00	142.63	0.672	0.193
3/31/2010	1.22	43.69	35.74	29.00	96.98	637.35	143.53	0.645	0.194
4/30/2010	1.17	43.71	37.25	27.10	97.01	638.67	144.34	0.603	0.195
5/31/2010	1.18	45.40	38.45	25.29	97.05	640.07	145.13	0.542	0.196
6/30/2010	1.10	43.96	40.08	28.67	97.08	641.39	145.99	0.636	0.196
7/31/2010	0.94	43.29	46.28	31.16	97.11	642.73	146.95	0.704	0.197
8/31/2010	1.07	45.01	42.16	30.19	97.14	644.13	147.89	0.654	0.198
9/30/2010	1.01	43.31	42.74	28.80	97.17	645.43	148.75	0.649	0.199
10/31/2010	1.02	42.61	41.94	27.10	97.20	646.75	149.59	0.620	0.200
11/30/2010	0.97	43.10	44.28	30.83	97.23	648.04	150.52	0.699	0.201
12/31/2010	0.97	42.45	43.57	31.81	97.26	649.36	151.50	0.732	0.202

# Pattern: 06-17-006-22 Set: Souris Hartney Unit

Oil Formation Vol. Factor : 1.05 m3/m3

Water Formation Vol Factor : 1.00 m3/m3

Water / Oil Ratio : 44.89 m3/m3

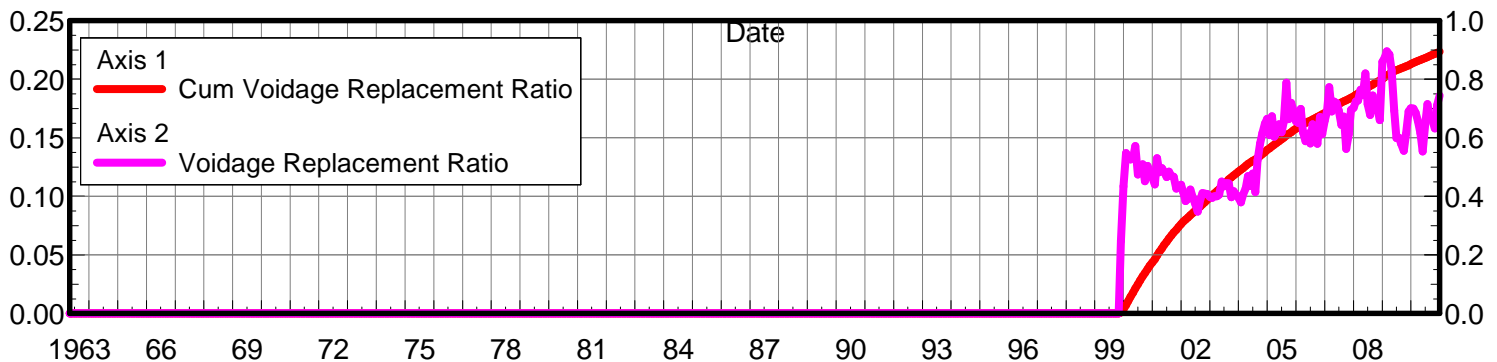
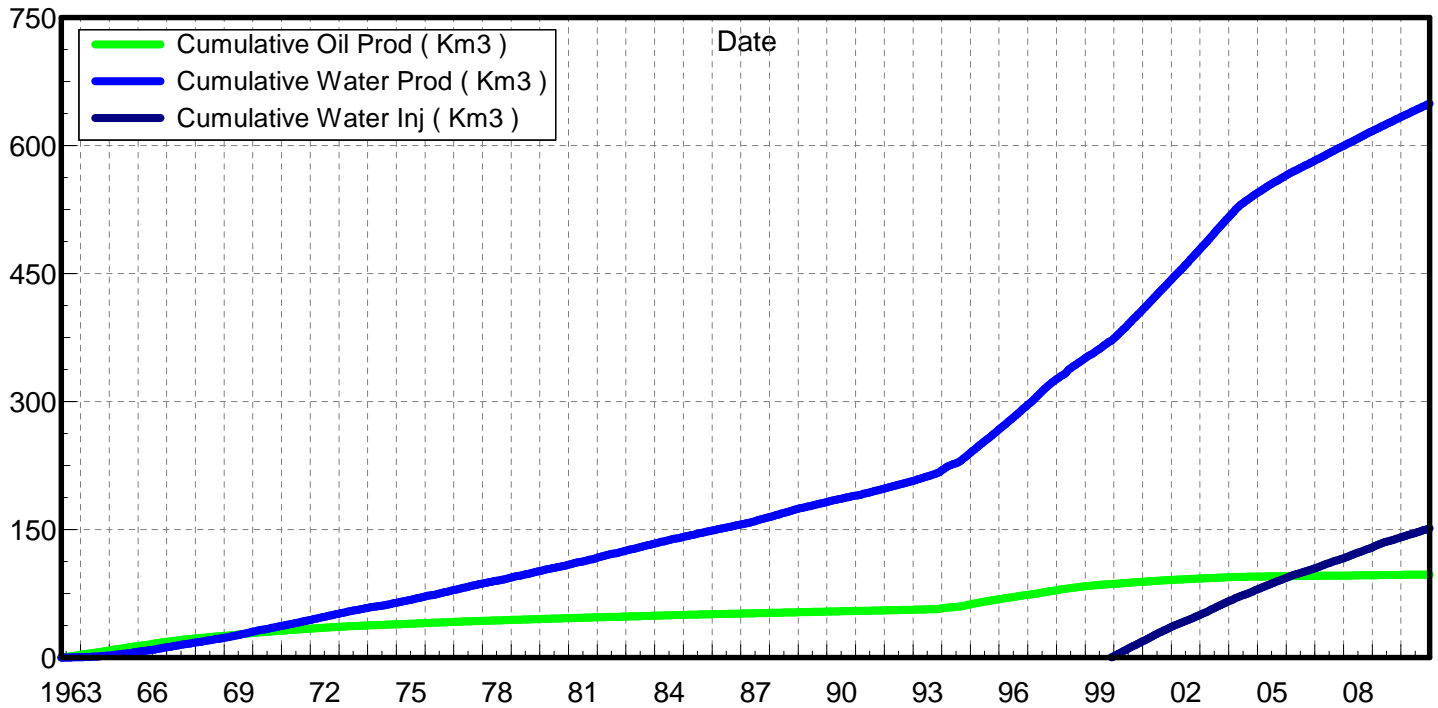
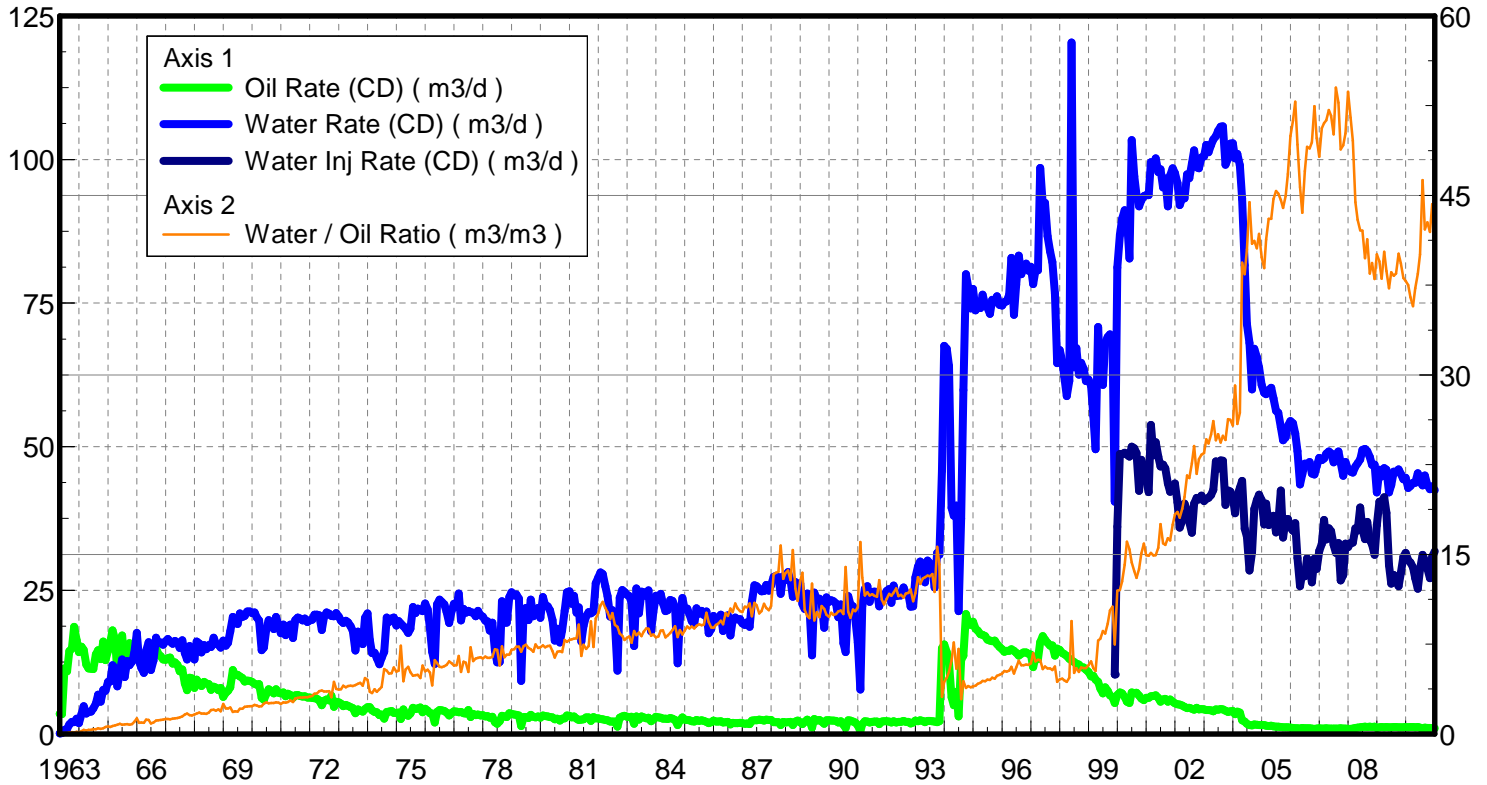
July 20, 2011

Operator: Tundra\_Oil\_and\_Gas\_Patnership

Oil Rate (CD) : 0.96 m3/d

Water Rate (CD) : 43.30 m3/d

Water Inj Rate (CD) : 32.13 m3/d



Date