

**WEST BUTLER UNIT NO. 1
WATERFLOOD EOR PROJECT**

ANNUAL REPORT FOR 2010

July 28, 2011

Tundra Oil and Gas Partnership

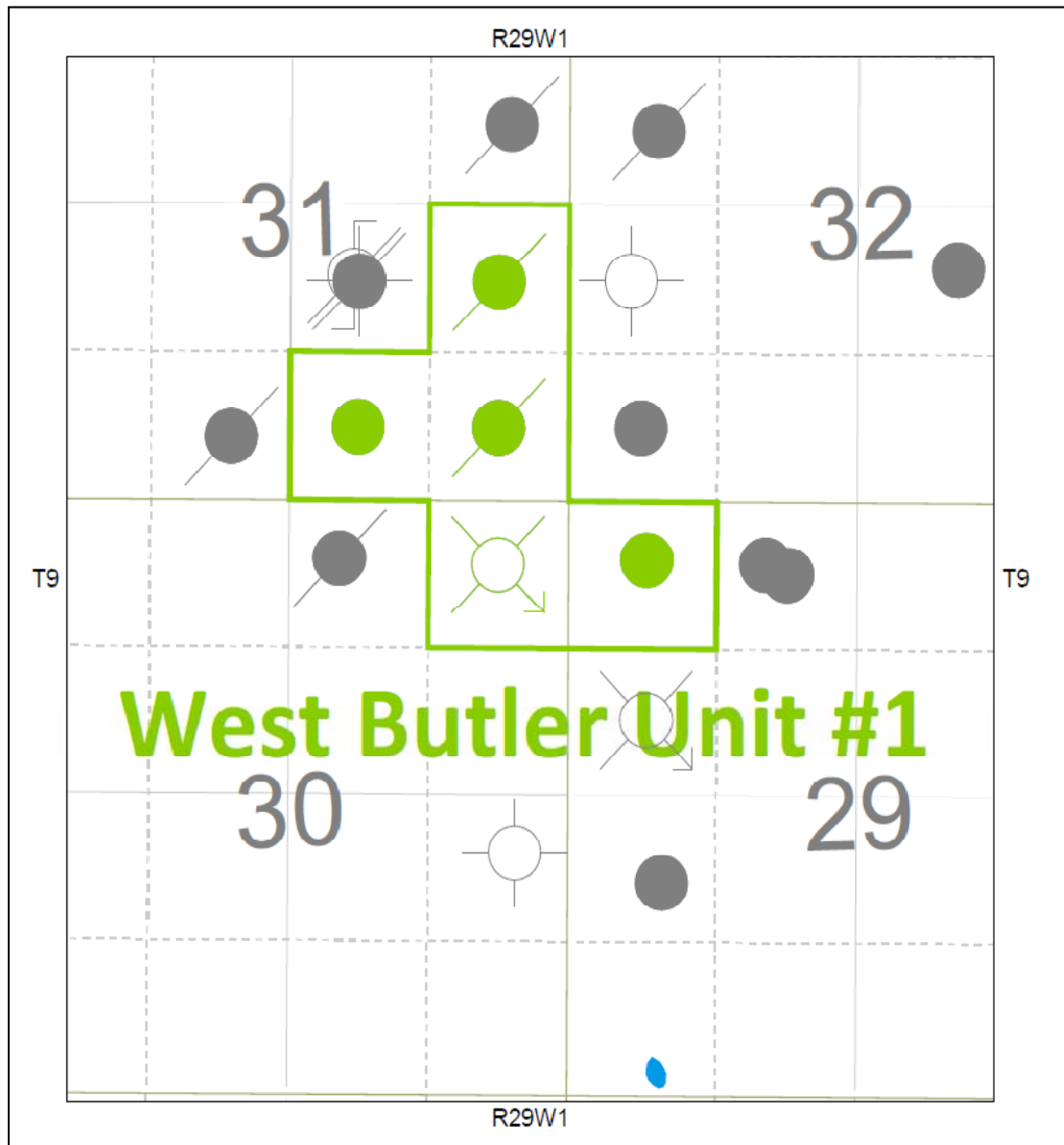
Table of Contents

INTRODUCTION	3
DISCUSSION	4
Production History	4
Waterflood History	5
Waterflood EOR Operating Strategy and Performance	6
Water Source and Quality	6
Injection Wellhead Pressures	6
Reservoir Pressure	6
Well Servicing	6
Voidage Replacement	6
Waterflood Performance Discussion	7
List of Appendices	7
Appendix A: Well List and Well Status	
Appendix B: West Butler Unit No. 1 Injection Pattern Summary	
Appendix C: Injector Pattern Production/Injection Rates, Cumulative and VRRs, plots and tables for the following injectors	

INTRODUCTION

West Butler Unit No. 1 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Unitization Order No. 14 effective September 1972 with Enerplus ECT Resources Ltd. as Operator. Rideau Petroleum Ltd. acquired the unit from Enerplus ECT Resources Ltd. and became operator in September 1985. Tundra acquired the unit from Rideau in 2007 and is the current operator of the unit. The EOR project area contains 5 wells in 5 LSDs in Township 9, Range 29 W1 as shown in the figure below. Well list and well status is available in Appendix A.

Figure 1: West Butler 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 West Butler Unit No. 2 as required by Board Order No. PM 21.

DISCUSSION

Production History

For the wells included in West Butler Unit No. 1, production started November 1955 with 00/01-13-009-29W1/0 well. Oil production peaked at 20.74 m³/d in May 1956, when all five wells were producing. The water oil ratio (WOR) averaged 0.27 m³/m³ over the last half of 2010. The Unit was producing 1.08 m³/d of oil and 0.34 m³/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 C. The rates and WOR are presented in Figure 2.

Figure 2: West Butler Unit No. 1 Production/Injection Rates and WOR vs. Time

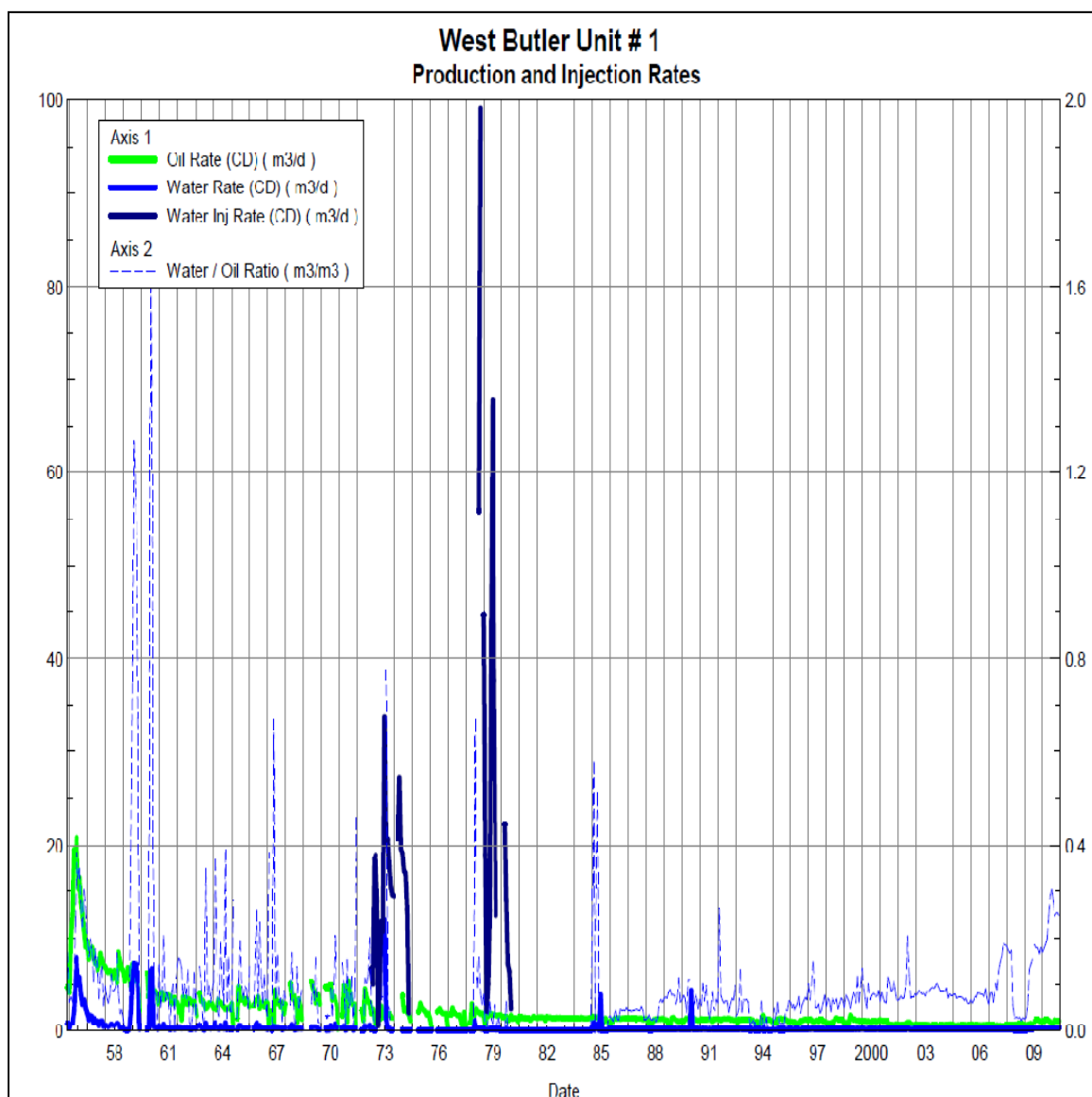
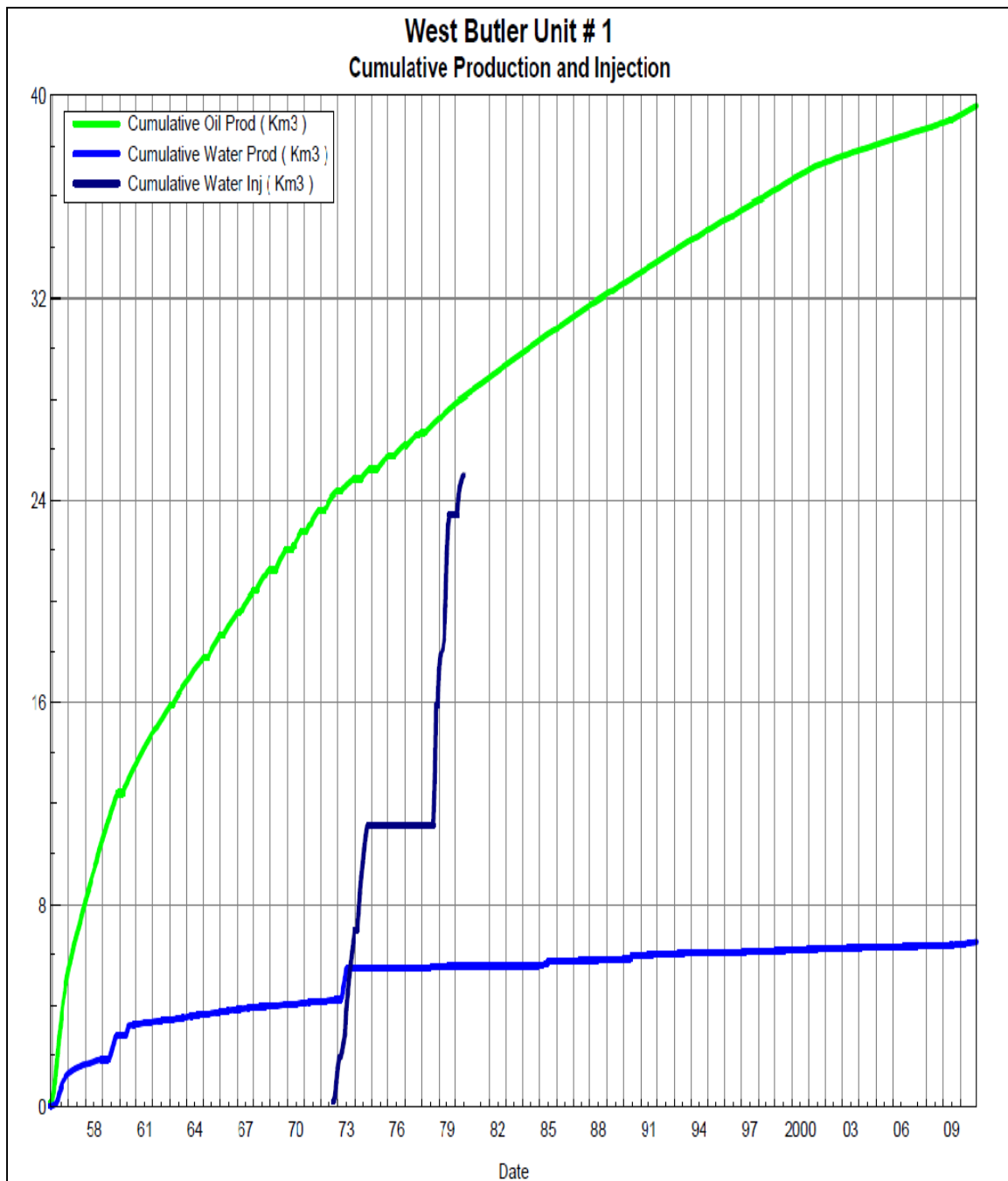


Figure 3 shows the cumulative production for West Butler Unit No. 1 to the end of December 2010 as 39.6 E³m³ of oil, and 6.50 E³m³ of water. The cumulative water injected is 25.0 E³m³. The cumulative volume of oil, and water produced and fluid

injected for each injection pattern and for the whole project for each injection well is presented in Appendix C.

Figure 3: West Butler Unit No. 1 Cum. Oil, Water and Water Injected vs. Time



Waterflood History

As of December 2010 the Unit has no active injector. Water was injected into unit from June 1973 until June 1980.

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 currently no injection in West Butler unit No. 1.

Injection Wellhead Pressures

No Injection wellhead Pressure is Available for this unit.

Reservoir Pressure

No reservoir pressure measurements were taken at West Butler Unit No. 1, in 2010.

Well Servicing

No maintenance was required on 5 wells in West Butler Unit No. 1, in 2010.

Voidage Replacement

Cumulative voidage for the West Butler Unit No. 1 was 0.515 in December 2010. 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 C.

Waterflood Performance Discussion

The original oil-in-place (OOIP) of the Unit is estimated at 309 E³m³. In 2010, recovery factor of the Unit is 12.8% based on 39,600 m³ of cumulative oil recovered to date. The ultimate expected recoverable reserve based on decline analysis is 40,000 m³ or an ultimate recovery factor of 12.9%.

The overall performance of this waterflood has been very poor due to lack of waterflood response and very low cumulative VRR. Currently no water injection is taking place. Trends in production are stable and extremely mature. No changes in trends are anticipated. The Unit may be located in very marginal reservoir. Optimization of the Unit and secondary recovery feasibility will be considered with future development of the area.

List of Appendices

Appendix A: Well List and Well Status

Appendix B: West Butler Unit No. 1 Injection Pattern Summary

Appendix C: Injector Pattern Production/Injection Rates, Cumulative and VRRs
Plots and Tables

Appendix A

UWI	Well Status
100/13-29-009-29W1/00	Capable of OIL Prod
100/16-30-009-29W1/00	ABD WTR Injection
100/01-31-009-29W1/00	ABD Producer
100/02-31-009-29W1/00	Capable of OIL Prod
100/08-31-009-29W1/00	ABD Producer

Pattern Name	Injector Location (009-29W1)	Status	Supported Wells (009-29W1)	No. of Supported 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
00/16-30-009-29W1 Injector	00/16-30	WTR Injection	01-31, 02-31, 08-31, 13-29, 16-30	5	1	Apr 1965	Sep 1972	1.1	0.3	0.31	0.0	39.6	6.5	25.0	0.0	0.52

Oil Formation Vol. Factor : 1.06 m3/m3

Completions Selected (5)

Oil Rate (CD) : 1.02 m3/d

Water Formation Vol Factor : 1.00 m3/m3

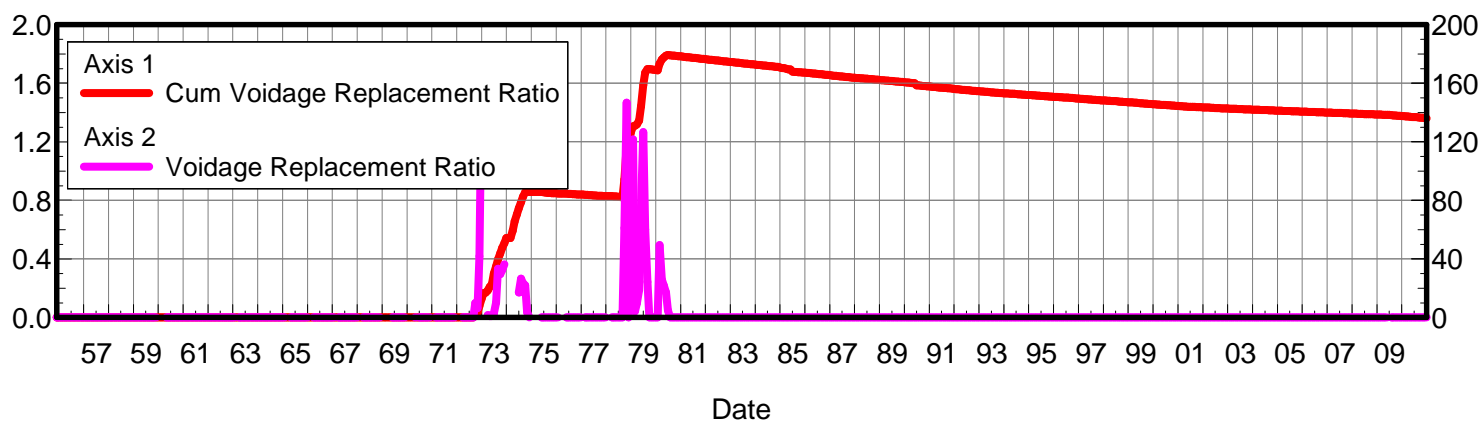
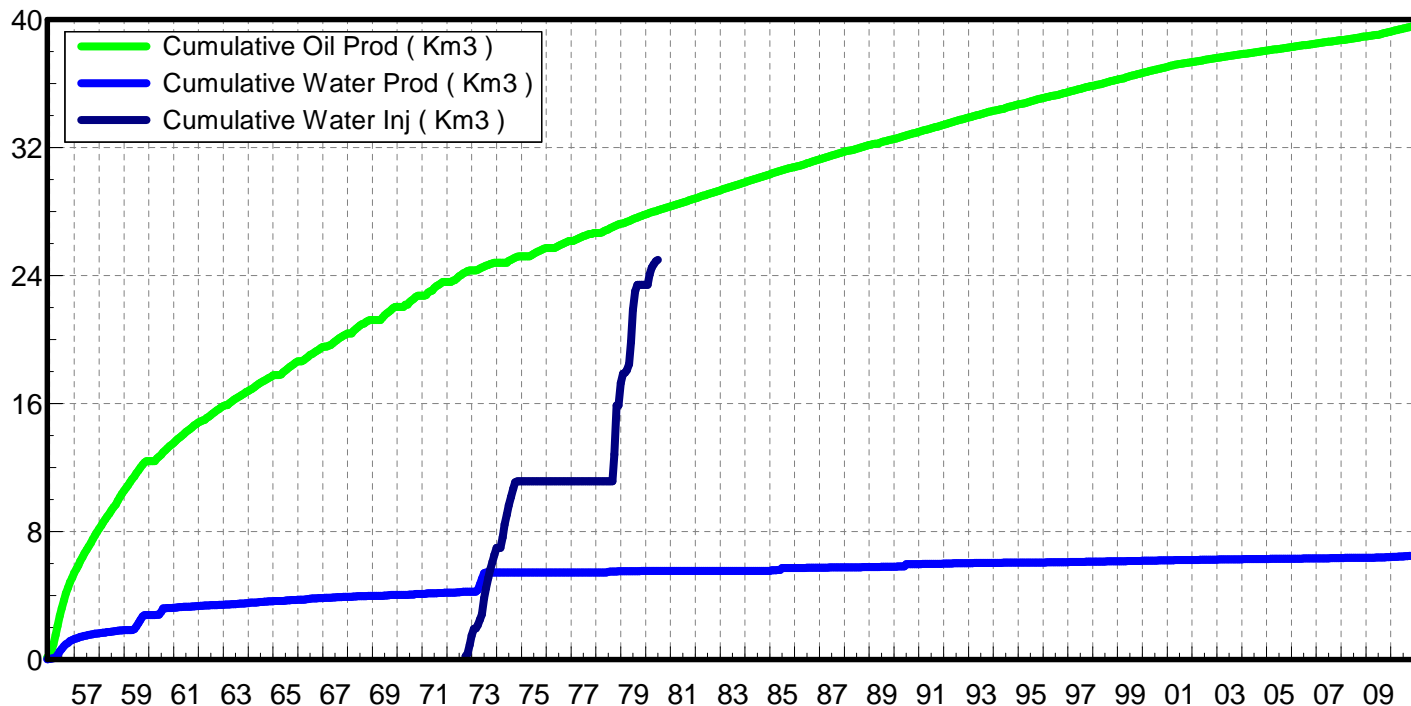
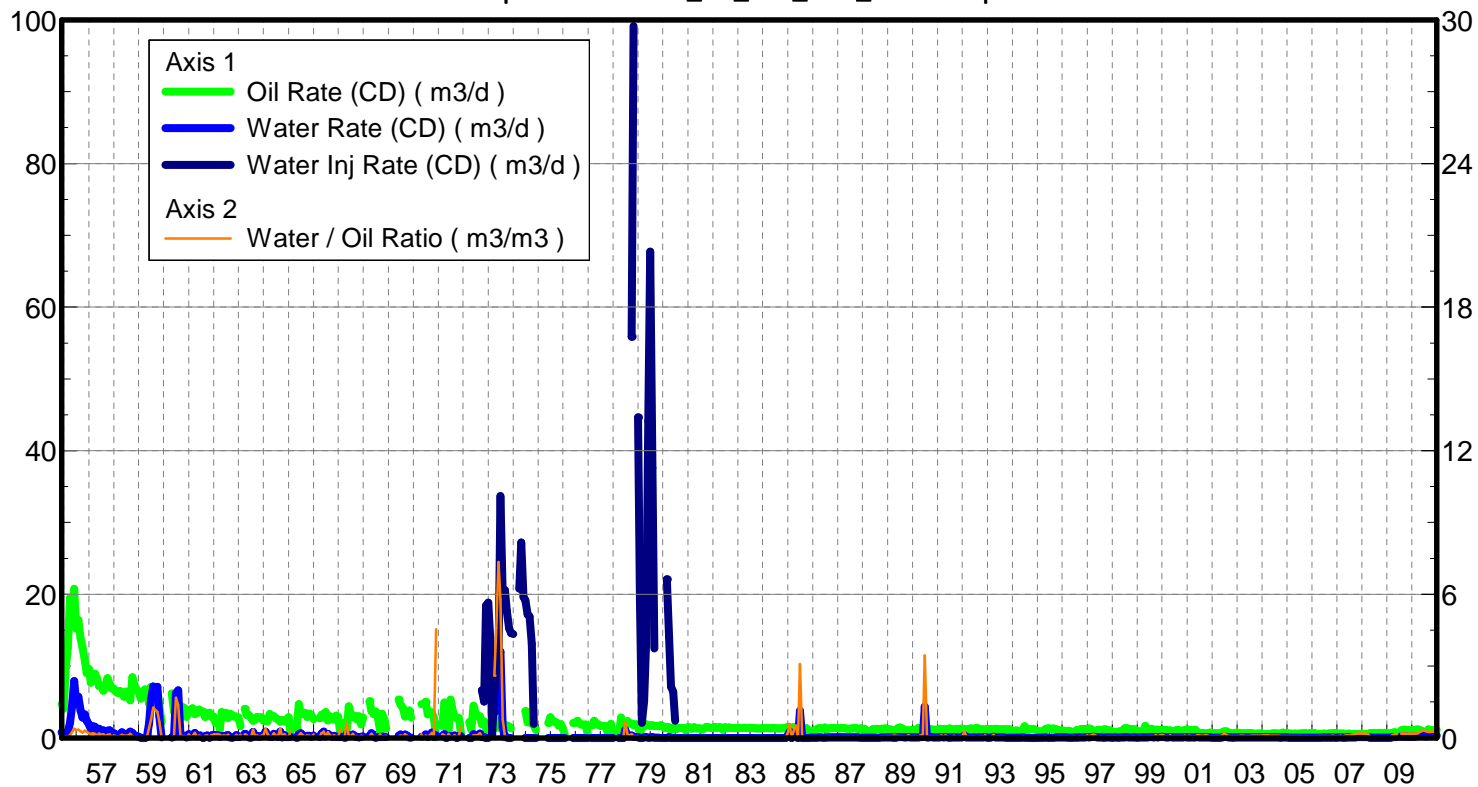
July 14, 2011

Water Rate (CD) : 0.33 m3/d

Water / Oil Ratio : 0.32 m3/m3

Operator: Tundra_Oil_and_Gas_Patnership

Water Inj Rate (CD) : 2.37 m3/d



Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	Voidage Replacement Ratio	Cum Voidage Replacement Ratio
11/30/1955	4.72	0.80	0.17		0.14	0.02	0.00	0.000	0.000
12/31/1955	4.09	0.25	0.06		0.27	0.03	0.00	0.000	0.000
1/31/1956	9.92	0.71	0.07		0.58	0.05	0.00	0.000	0.000
2/29/1956	12.54	0.77	0.06		0.94	0.08	0.00	0.000	0.000
3/31/1956	19.52	2.14	0.11		1.54	0.14	0.00	0.000	0.000
4/30/1956	18.20	4.31	0.24		2.09	0.27	0.00	0.000	0.000
5/31/1956	20.74	7.89	0.38		2.73	0.52	0.00	0.000	0.000
6/30/1956	15.23	5.00	0.33		3.19	0.67	0.00	0.000	0.000
7/31/1956	16.45	5.73	0.35		3.70	0.84	0.00	0.000	0.000
8/31/1956	13.83	3.82	0.28		4.13	0.96	0.00	0.000	0.000
9/30/1956	12.62	2.81	0.22		4.51	1.05	0.00	0.000	0.000
10/31/1956	10.85	3.28	0.30		4.84	1.15	0.00	0.000	0.000
11/30/1956	9.05	2.40	0.27		5.12	1.22	0.00	0.000	0.000
12/31/1956	9.60	1.88	0.20		5.41	1.28	0.00	0.000	0.000
1/31/1957	7.67	1.21	0.16		5.65	1.32	0.00	0.000	0.000
2/28/1957	8.24	1.63	0.20		5.88	1.36	0.00	0.000	0.000
3/31/1957	8.94	1.53	0.17		6.16	1.41	0.00	0.000	0.000
4/30/1957	8.29	0.89	0.11		6.41	1.44	0.00	0.000	0.000
5/31/1957	7.22	1.27	0.18		6.63	1.48	0.00	0.000	0.000
6/30/1957	7.29	0.92	0.13		6.85	1.50	0.00	0.000	0.000
7/31/1957	6.58	1.05	0.16		7.05	1.54	0.00	0.000	0.000
8/31/1957	7.16	0.49	0.07		7.28	1.55	0.00	0.000	0.000
9/30/1957	8.32	1.02	0.12		7.53	1.58	0.00	0.000	0.000
10/31/1957	7.52	1.04	0.14		7.76	1.61	0.00	0.000	0.000
11/30/1957	6.91	0.37	0.05		7.97	1.63	0.00	0.000	0.000
12/31/1957	6.86	0.66	0.10		8.18	1.65	0.00	0.000	0.000
1/31/1958	6.45	0.46	0.07		8.38	1.66	0.00	0.000	0.000
2/28/1958	6.25	0.37	0.06		8.55	1.67	0.00	0.000	0.000
3/31/1958	6.53	0.49	0.08		8.76	1.69	0.00	0.000	0.000
4/30/1958	6.37	0.78	0.12		8.95	1.71	0.00	0.000	0.000
5/31/1958	5.73	0.48	0.08		9.12	1.72	0.00	0.000	0.000
6/30/1958	6.46	0.57	0.09		9.32	1.74	0.00	0.000	0.000
7/31/1958	6.22	0.59	0.09		9.51	1.76	0.00	0.000	0.000
8/31/1958	5.24	0.87	0.17		9.67	1.79	0.00	0.000	0.000
9/30/1958	8.44	0.68	0.08		9.93	1.81	0.00	0.000	0.000
10/31/1958	7.38	0.27	0.04		10.16	1.81	0.00	0.000	0.000
11/30/1958	6.71	0.30	0.05		10.36	1.82	0.00	0.000	0.000
12/31/1958	6.45	0.16	0.03		10.56	1.83	0.00	0.000	0.000
1/31/1959	5.45	0.02	0.00		10.73	1.83	0.00	0.000	0.000
2/28/1959	5.79	0.00	0.00		10.89	1.83	0.00	0.000	0.000
3/31/1959	6.74	0.00	0.00		11.10	1.83	0.00	0.000	0.000
4/30/1959	6.22	0.09	0.02		11.28	1.83	0.00	0.000	0.000
5/31/1959	4.80	2.01	0.42		11.43	1.89	0.00	0.000	0.000
6/30/1959	7.12	5.35	0.75		11.64	2.06	0.00	0.000	0.000
7/31/1959	5.67	7.17	1.27		11.82	2.28	0.00	0.000	0.000
8/31/1959	5.47	6.38	1.17		11.99	2.48	0.00	0.000	0.000
9/30/1959	6.52	7.11	1.09		12.19	2.69	0.00	0.000	0.000
10/31/1959	4.53	3.05	0.67		12.33	2.78	0.00	0.000	0.000

Date	Oil Rate (CD) m3/d	Water Rate (CD) m3/d	Water Oil Ratio m3/m3	Water Inj Rate (CD) m3/d	Cum Oil Prod Km3	Cum Water Prod Km3	Cum Water Inj Km3	Voidage Replacement Ratio	Cum Voidage Replacement Ratio
11/30/1959	2.15	0.09	0.04		12.39	2.79	0.00	0.000	0.000
4/30/1960	6.16	0.08	0.01		12.58	2.79	0.00	0.000	0.000
5/31/1960	3.69	0.35	0.09		12.69	2.80	0.00	0.000	0.000
6/30/1960	3.69	6.21	1.68		12.80	2.99	0.00	0.000	0.000
7/31/1960	4.85	6.63	1.37		12.95	3.19	0.00	0.000	0.000
8/31/1960	4.08	0.37	0.09		13.08	3.20	0.00	0.000	0.000
9/30/1960	4.32	0.35	0.08		13.21	3.21	0.00	0.000	0.000
10/31/1960	4.13	0.29	0.07		13.33	3.22	0.00	0.000	0.000
11/30/1960	2.91	0.07	0.03		13.42	3.22	0.00	0.000	0.000
12/31/1960	3.75	0.53	0.14		13.54	3.24	0.00	0.000	0.000
1/31/1961	3.96	0.20	0.05		13.66	3.25	0.00	0.000	0.000
2/28/1961	4.13	0.30	0.07		13.78	3.25	0.00	0.000	0.000
3/31/1961	3.35	0.68	0.20		13.88	3.28	0.00	0.000	0.000
4/30/1961	3.47	0.22	0.06		13.98	3.28	0.00	0.000	0.000
5/31/1961	3.95	0.33	0.08		14.11	3.29	0.00	0.000	0.000
6/30/1961	3.60	0.25	0.07		14.22	3.30	0.00	0.000	0.000
7/31/1961	3.70	0.00	0.00		14.33	3.30	0.00	0.000	0.000
8/31/1961	2.92	0.24	0.08		14.42	3.31	0.00	0.000	0.000
9/30/1961	3.46	0.35	0.10		14.52	3.32	0.00	0.000	0.000
10/31/1961	3.51	0.04	0.01		14.63	3.32	0.00	0.000	0.000
11/30/1961	2.94	0.34	0.12		14.72	3.33	0.00	0.000	0.000
12/31/1961	2.97	0.41	0.14		14.81	3.34	0.00	0.000	0.000
1/31/1962	2.06	0.32	0.15		14.88	3.35	0.00	0.000	0.000
2/28/1962	2.59	0.39	0.15		14.95	3.36	0.00	0.000	0.000
3/31/1962	1.22	0.16	0.13		14.99	3.37	0.00	0.000	0.000
4/30/1962	3.58	0.25	0.07		15.10	3.38	0.00	0.000	0.000
5/31/1962	2.88	0.29	0.10		15.18	3.38	0.00	0.000	0.000
6/30/1962	3.51	0.24	0.07		15.29	3.39	0.00	0.000	0.000
7/31/1962	2.81	0.37	0.13		15.38	3.40	0.00	0.000	0.000
8/31/1962	3.37	0.06	0.02		15.48	3.41	0.00	0.000	0.000
9/30/1962	3.15	0.03	0.01		15.58	3.41	0.00	0.000	0.000
10/31/1962	2.98	0.10	0.03		15.67	3.41	0.00	0.000	0.000
11/30/1962	2.97	0.37	0.13		15.76	3.42	0.00	0.000	0.000
12/31/1962	2.82	0.09	0.03		15.84	3.42	0.00	0.000	0.000
1/31/1963	1.61	0.20	0.12		15.89	3.43	0.00	0.000	0.000
3/31/1963	4.04	0.56	0.14		16.02	3.45	0.00	0.000	0.000
4/30/1963	3.18	0.35	0.11		16.12	3.46	0.00	0.000	0.000
5/31/1963	3.20	0.09	0.03		16.21	3.46	0.00	0.000	0.000
6/30/1963	2.85	0.02	0.01		16.30	3.46	0.00	0.000	0.000
7/31/1963	2.39	0.83	0.35		16.37	3.49	0.00	0.000	0.000
8/31/1963	2.53	0.19	0.08		16.45	3.49	0.00	0.000	0.000
9/30/1963	2.94	0.28	0.10		16.54	3.50	0.00	0.000	0.000
10/31/1963	2.74	0.17	0.06		16.63	3.51	0.00	0.000	0.000
11/30/1963	2.87	0.25	0.09		16.71	3.51	0.00	0.000	0.000
12/31/1963	2.43	0.26	0.11		16.79	3.52	0.00	0.000	0.000
1/31/1964	2.39	0.88	0.37		16.86	3.55	0.00	0.000	0.000
2/29/1964	2.30	0.40	0.17		16.93	3.56	0.00	0.000	0.000
3/31/1964	3.31	0.15	0.04		17.03	3.56	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
4/30/1964	3.10	0.10	0.03		17.12	3.57	0.00	0.000	0.000
5/31/1964	3.00	0.57	0.19		17.22	3.59	0.00	0.000	0.000
6/30/1964	2.75	0.27	0.10		17.30	3.59	0.00	0.000	0.000
7/31/1964	2.55	0.14	0.06		17.38	3.60	0.00	0.000	0.000
8/31/1964	2.27	0.88	0.39		17.45	3.63	0.00	0.000	0.000
9/30/1964	2.50	0.07	0.03		17.52	3.63	0.00	0.000	0.000
10/31/1964	2.32	0.36	0.16		17.59	3.64	0.00	0.000	0.000
11/30/1964	2.45	0.10	0.04		17.67	3.64	0.00	0.000	0.000
12/31/1964	2.87	0.12	0.04		17.76	3.65	0.00	0.000	0.000
1/31/1965	0.62	0.17	0.28		17.78	3.65	0.00	0.000	0.000
4/30/1965	1.33	0.04	0.03		17.82	3.65	0.00	0.000	0.000
5/31/1965	4.72	0.51	0.11		17.96	3.67	0.00	0.000	0.000
6/30/1965	3.30	0.64	0.19		18.06	3.69	0.00	0.000	0.000
7/31/1965	3.30	0.32	0.10		18.16	3.70	0.00	0.000	0.000
8/31/1965	3.50	0.24	0.07		18.27	3.70	0.00	0.000	0.000
9/30/1965	2.92	0.28	0.10		18.36	3.71	0.00	0.000	0.000
10/31/1965	3.38	0.30	0.09		18.47	3.72	0.00	0.000	0.000
11/30/1965	3.17	0.15	0.05		18.56	3.73	0.00	0.000	0.000
12/31/1965	2.59	0.36	0.14		18.64	3.74	0.00	0.000	0.000
3/31/1966	2.75	0.15	0.05		18.73	3.74	0.00	0.000	0.000
4/30/1966	3.18	0.60	0.19		18.82	3.76	0.00	0.000	0.000
5/31/1966	3.37	0.88	0.26		18.93	3.79	0.00	0.000	0.000
6/30/1966	3.60	0.19	0.05		19.03	3.79	0.00	0.000	0.000
7/31/1966	2.44	0.57	0.24		19.11	3.81	0.00	0.000	0.000
8/31/1966	3.02	0.35	0.12		19.20	3.82	0.00	0.000	0.000
9/30/1966	2.79	0.16	0.06		19.29	3.83	0.00	0.000	0.000
10/31/1966	2.59	0.31	0.12		19.37	3.84	0.00	0.000	0.000
11/30/1966	3.09	0.14	0.05		19.46	3.84	0.00	0.000	0.000
12/31/1966	2.92	0.09	0.03		19.55	3.84	0.00	0.000	0.000
1/31/1967	0.45	0.17	0.38		19.56	3.85	0.00	0.000	0.000
3/31/1967	2.13	0.02	0.01		19.63	3.85	0.00	0.000	0.000
4/30/1967	0.75	0.50	0.67		19.65	3.86	0.00	0.000	0.000
5/31/1967	4.38	0.31	0.07		19.79	3.87	0.00	0.000	0.000
6/30/1967	3.39	0.24	0.07		19.89	3.88	0.00	0.000	0.000
7/31/1967	2.88	0.47	0.16		19.98	3.90	0.00	0.000	0.000
8/31/1967	3.09	0.19	0.06		20.08	3.90	0.00	0.000	0.000
9/30/1967	2.59	0.18	0.07		20.15	3.91	0.00	0.000	0.000
10/31/1967	3.02	0.06	0.02		20.25	3.91	0.00	0.000	0.000
11/30/1967	1.88	0.16	0.09		20.30	3.91	0.00	0.000	0.000
12/31/1967	2.84	0.20	0.07		20.39	3.92	0.00	0.000	0.000
3/31/1968	5.11	0.28	0.06		20.55	3.93	0.00	0.000	0.000
4/30/1968	3.74	0.63	0.17		20.66	3.95	0.00	0.000	0.000
5/31/1968	3.34	0.23	0.07		20.77	3.95	0.00	0.000	0.000
6/30/1968	3.67	0.01	0.00		20.88	3.95	0.00	0.000	0.000
7/31/1968	2.85	0.10	0.03		20.96	3.96	0.00	0.000	0.000
8/31/1968	0.94	0.13	0.14		20.99	3.96	0.00	0.000	0.000
9/30/1968	3.36	0.16	0.05		21.09	3.97	0.00	0.000	0.000
10/31/1968	2.61	0.17	0.07		21.17	3.97	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
11/30/1968	1.25	0.11	0.09		21.21	3.98	0.00	0.000	0.000
5/31/1969	5.32	0.30	0.06		21.38	3.98	0.00	0.000	0.000
6/30/1969	4.60	0.47	0.10		21.52	4.00	0.00	0.000	0.000
7/31/1969	4.20	0.27	0.06		21.65	4.01	0.00	0.000	0.000
8/31/1969	2.97	0.47	0.16		21.74	4.02	0.00	0.000	0.000
9/30/1969	3.45	0.32	0.09		21.84	4.03	0.00	0.000	0.000
10/31/1969	3.82	0.07	0.02		21.96	4.03	0.00	0.000	0.000
11/30/1969	2.84	0.05	0.02		22.04	4.03	0.00	0.000	0.000
4/30/1970	4.71	0.14	0.03		22.19	4.04	0.00	0.000	0.000
6/30/1970	5.04	0.46	0.09		22.34	4.05	0.00	0.000	0.000
7/31/1970	3.28	0.11	0.03		22.44	4.06	0.00	0.000	0.000
8/31/1970	3.61	0.36	0.10		22.55	4.07	0.00	0.000	0.000
9/30/1970	3.53	0.72	0.20		22.66	4.09	0.00	0.000	0.000
10/31/1970	2.78	0.16	0.06		22.74	4.09	0.00	0.000	0.000
11/30/1970	0.09	0.39	4.54		22.75	4.11	0.00	0.000	0.000
2/28/1971	1.66	0.24	0.14		22.79	4.11	0.00	0.000	0.000
3/31/1971	4.92	0.51	0.10		22.94	4.13	0.00	0.000	0.000
4/30/1971	2.74	0.00	0.00		23.03	4.13	0.00	0.000	0.000
5/31/1971	1.02	0.15	0.15		23.06	4.13	0.00	0.000	0.000
6/30/1971	5.35	0.26	0.05		23.22	4.14	0.00	0.000	0.000
7/31/1971	3.78	0.22	0.06		23.34	4.15	0.00	0.000	0.000
8/31/1971	2.95	0.35	0.12		23.43	4.16	0.00	0.000	0.000
9/30/1971	2.75	0.00	0.00		23.51	4.16	0.00	0.000	0.000
10/31/1971	2.77	0.25	0.09		23.60	4.17	0.00	0.000	0.000
11/30/1971	0.50	0.23	0.46		23.61	4.17	0.00	0.000	0.000
3/31/1972	2.20	0.00	0.00		23.68	4.17	0.00	0.000	0.000
4/30/1972	1.14	0.00	0.00		23.71	4.17	0.00	0.000	0.000
5/31/1972	4.48	0.51	0.11		23.85	4.19	0.00	0.000	0.000
6/30/1972	3.51	0.36	0.10		23.96	4.20	0.00	0.000	0.000
7/31/1972	3.06	0.36	0.12		24.05	4.21	0.00	0.000	0.000
8/31/1972	3.00	0.60	0.20		24.15	4.23	0.00	0.000	0.000
9/30/1972	1.88	0.11	0.06	6.64	24.20	4.23	0.20	10.189	0.018
10/31/1972	2.30	0.10	0.04	5.06	24.27	4.24	0.36	6.651	0.032
11/30/1972	1.47	0.00	0.00	18.44	24.32	4.24	0.91	43.267	0.081
12/31/1972	0.38	0.00	0.00	18.83	24.33	4.24	1.49	169.599	0.132
1/31/1973				13.92	24.33	4.24	1.92		0.171
2/28/1973				0.49	24.33	4.24	1.94		0.172
3/31/1973	1.37	3.57	2.61	6.43	24.37	4.35	2.14	1.618	0.188
4/30/1973	2.58	11.83	4.59	11.83	24.45	4.70	2.49	0.941	0.212
5/31/1973	1.46	10.75	7.35	10.75	24.49	5.04	2.83	0.962	0.233
6/30/1973	2.08	12.00	5.78	33.67	24.56	5.40	3.84	2.671	0.307
7/31/1973	1.84	1.43	0.78	20.06	24.61	5.44	4.46	10.254	0.355
8/31/1973	1.75	0.10	0.06	20.59	24.67	5.44	5.10	34.226	0.405
9/30/1973	1.73	0.08	0.05	17.68	24.72	5.44	5.63	30.414	0.447
10/31/1973	1.57	0.00	0.00	15.29	24.77	5.44	6.10	33.577	0.484
11/30/1973	1.34	0.00	0.00	14.58	24.81	5.44	6.54	37.715	0.518
12/31/1973				14.47	24.81	5.44	6.99		0.554
3/31/1974				20.81	24.81	5.44	7.63		0.605

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
4/30/1974				27.22	24.81	5.44	8.45		0.669
5/31/1974				19.64	24.81	5.44	9.06		0.718
6/30/1974	3.73	0.00	0.00	19.15	24.92	5.44	9.63	17.764	0.761
7/31/1974	2.16	0.00	0.00	17.19	24.99	5.44	10.16	27.455	0.802
8/31/1974	2.41	0.00	0.00	16.93	25.06	5.44	10.69	24.254	0.842
9/30/1974	1.99	0.00	0.00	13.06	25.12	5.44	11.08	22.660	0.872
10/31/1974	1.80	0.00	0.00	1.94	25.18	5.44	11.14	3.724	0.875
11/30/1974	1.10	0.00	0.00		25.21	5.44	11.14	0.000	0.875
5/31/1975	2.09	0.00	0.00		25.28	5.44	11.14	0.000	0.873
6/30/1975	2.88	0.00	0.00		25.36	5.44	11.14	0.000	0.872
7/31/1975	2.41	0.00	0.00		25.44	5.44	11.14	0.000	0.870
8/31/1975	2.24	0.00	0.00		25.51	5.44	11.14	0.000	0.869
9/30/1975	2.10	0.00	0.00		25.57	5.44	11.14	0.000	0.868
10/31/1975	1.73	0.00	0.00		25.62	5.44	11.14	0.000	0.867
11/30/1975	1.91	0.00	0.00		25.68	5.44	11.14	0.000	0.865
12/31/1975	1.30	0.00	0.00		25.72	5.44	11.14	0.000	0.865
1/31/1976	0.26	0.00	0.00		25.73	5.44	11.14	0.000	0.865
5/31/1976	2.09	0.00	0.00		25.79	5.44	11.14	0.000	0.863
6/30/1976	2.12	0.00	0.00		25.86	5.44	11.14	0.000	0.862
7/31/1976	2.37	0.00	0.00		25.93	5.44	11.14	0.000	0.861
8/31/1976	2.01	0.00	0.00		25.99	5.44	11.14	0.000	0.859
9/30/1976	1.86	0.00	0.00		26.05	5.44	11.14	0.000	0.858
10/31/1976	1.83	0.00	0.00		26.10	5.44	11.14	0.000	0.857
11/30/1976	1.85	0.00	0.00		26.16	5.44	11.14	0.000	0.856
12/31/1976	0.16	0.00	0.00		26.16	5.44	11.14	0.000	0.856
2/28/1977	1.78	0.00	0.00		26.21	5.44	11.14	0.000	0.855
3/31/1977	2.41	0.00	0.00		26.29	5.44	11.14	0.000	0.854
4/30/1977	1.90	0.00	0.00		26.35	5.44	11.14	0.000	0.853
5/31/1977	1.90	0.00	0.00		26.41	5.44	11.14	0.000	0.852
6/30/1977	1.68	0.00	0.00		26.46	5.44	11.14	0.000	0.851
7/31/1977	1.67	0.00	0.00		26.51	5.44	11.14	0.000	0.850
8/31/1977	1.69	0.00	0.00		26.56	5.44	11.14	0.000	0.849
9/30/1977	1.20	0.00	0.00		26.60	5.44	11.14	0.000	0.848
10/31/1977	0.12	0.00	0.00		26.60	5.44	11.14	0.000	0.848
11/30/1977	1.95	0.00	0.00		26.66	5.44	11.14	0.000	0.847
12/31/1977	0.33	0.00	0.00		26.67	5.44	11.14	0.000	0.847
3/31/1978	0.85	0.00	0.00		26.69	5.44	11.14	0.000	0.846
4/30/1978	2.83	0.00	0.00		26.78	5.44	11.14	0.000	0.845
5/31/1978	1.79	0.00	0.00		26.84	5.44	11.14	0.000	0.844
6/30/1978	1.62	1.09	0.67		26.88	5.48	11.14	0.000	0.841
7/31/1978	2.36	0.35	0.15		26.96	5.49	11.14	0.000	0.839
8/31/1978	2.04	0.19	0.09		27.02	5.49	11.14	0.000	0.837
9/30/1978	2.00	0.32	0.16	55.89	27.08	5.50	12.82	62.369	0.961
10/31/1978	1.78	0.14	0.08	99.14	27.14	5.51	15.89	150.704	1.190
11/30/1978	1.91	0.11	0.06		27.19	5.51	15.89	0.000	1.188
12/31/1978	1.67	0.13	0.08	44.62	27.25	5.52	17.27	72.988	1.290
1/31/1979	0.52	0.00	0.00	18.90	27.26	5.52	17.86	125.849	1.333
2/28/1979	1.64	0.00	0.00	2.12	27.31	5.52	17.92	4.465	1.336

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
3/31/1979	1.58	0.06	0.04	5.12	27.36	5.52	18.08	9.892	1.346
4/30/1979	1.90	0.12	0.06	12.98	27.41	5.52	18.47	19.451	1.373
5/31/1979	1.80	0.05	0.03	44.14	27.47	5.52	19.84	78.013	1.473
6/30/1979	1.70	0.03	0.02	67.71	27.52	5.52	21.87	130.874	1.622
7/31/1979	1.76	0.10	0.05	37.60	27.57	5.53	23.03	61.929	1.706
8/31/1979	1.66	0.02	0.01	12.47	27.63	5.53	23.42	25.154	1.733
9/30/1979	1.64	0.03	0.02		27.68	5.53	23.42	0.000	1.731
10/31/1979	1.63	0.05	0.03		27.73	5.53	23.42	0.000	1.729
11/30/1979	1.78	0.00	0.00		27.78	5.53	23.42	0.000	1.727
12/31/1979	1.63	0.00	0.00		27.83	5.53	23.42	0.000	1.725
1/31/1980	1.36	0.00	0.00		27.87	5.53	23.42	0.000	1.723
2/29/1980	1.49	0.00	0.00	22.09	27.91	5.53	24.06	51.154	1.769
3/31/1980	1.50	0.09	0.06	14.05	27.96	5.53	24.49	26.686	1.799
4/30/1980	1.09	0.00	0.00	7.16	27.99	5.53	24.71	22.723	1.813
5/31/1980	1.24	0.00	0.00	6.39	28.03	5.53	24.91	17.800	1.826
6/30/1980	1.64	0.00	0.00	2.37	28.08	5.53	24.98	4.987	1.829
7/31/1980	1.28	0.00	0.00		28.12	5.53	24.98	0.000	1.828
8/31/1980	1.39	0.00	0.00		28.16	5.53	24.98	0.000	1.826
9/30/1980	1.34	0.00	0.00		28.20	5.53	24.98	0.000	1.825
10/31/1980	1.37	0.00	0.00		28.25	5.53	24.98	0.000	1.823
11/30/1980	1.04	0.00	0.00		28.28	5.53	24.98	0.000	1.822
12/31/1980	1.48	0.00	0.00		28.32	5.53	24.98	0.000	1.820
1/31/1981	1.47	0.00	0.00		28.37	5.53	24.98	0.000	1.818
2/28/1981	1.25	0.00	0.00		28.41	5.53	24.98	0.000	1.817
3/31/1981	1.51	0.00	0.00		28.45	5.53	24.98	0.000	1.815
4/30/1981	1.30	0.00	0.00		28.49	5.53	24.98	0.000	1.814
5/31/1981	1.30	0.00	0.00		28.53	5.53	24.98	0.000	1.812
6/30/1981	1.31	0.00	0.00		28.57	5.53	24.98	0.000	1.811
7/31/1981	1.13	0.00	0.00		28.61	5.53	24.98	0.000	1.809
8/31/1981	1.38	0.00	0.00		28.65	5.53	24.98	0.000	1.808
9/30/1981	1.54	0.00	0.00		28.69	5.53	24.98	0.000	1.806
10/31/1981	1.45	0.00	0.00		28.74	5.53	24.98	0.000	1.804
11/30/1981	1.40	0.00	0.00		28.78	5.53	24.98	0.000	1.803
12/31/1981	1.35	0.00	0.00		28.82	5.53	24.98	0.000	1.801
1/31/1982	1.55	0.00	0.00		28.87	5.53	24.98	0.000	1.799
2/28/1982	1.34	0.00	0.00		28.91	5.53	24.98	0.000	1.798
3/31/1982	1.49	0.00	0.00		28.95	5.53	24.98	0.000	1.796
4/30/1982	1.44	0.00	0.00		29.00	5.53	24.98	0.000	1.795
5/31/1982	1.14	0.00	0.00		29.03	5.53	24.98	0.000	1.793
6/30/1982	1.51	0.00	0.00		29.08	5.53	24.98	0.000	1.792
7/31/1982	1.38	0.00	0.00		29.12	5.53	24.98	0.000	1.790
8/31/1982	1.45	0.00	0.00		29.17	5.53	24.98	0.000	1.788
9/30/1982	1.35	0.00	0.00		29.21	5.53	24.98	0.000	1.787
10/31/1982	1.37	0.00	0.00		29.25	5.53	24.98	0.000	1.785
11/30/1982	1.37	0.00	0.00		29.29	5.53	24.98	0.000	1.784
12/31/1982	1.37	0.00	0.00		29.33	5.53	24.98	0.000	1.782
1/31/1983	1.42	0.00	0.00		29.38	5.53	24.98	0.000	1.781
2/28/1983	1.36	0.00	0.00		29.42	5.53	24.98	0.000	1.779

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
3/31/1983	1.42	0.00	0.00		29.46	5.53	24.98	0.000	1.778
4/30/1983	1.36	0.00	0.00		29.50	5.53	24.98	0.000	1.776
5/31/1983	1.37	0.00	0.00		29.54	5.53	24.98	0.000	1.775
6/30/1983	1.39	0.00	0.00		29.58	5.53	24.98	0.000	1.773
7/31/1983	1.35	0.00	0.00		29.63	5.53	24.98	0.000	1.772
8/31/1983	1.37	0.00	0.00		29.67	5.53	24.98	0.000	1.770
9/30/1983	1.34	0.00	0.00		29.71	5.53	24.98	0.000	1.769
10/31/1983	1.32	0.00	0.00		29.75	5.53	24.98	0.000	1.767
11/30/1983	1.33	0.00	0.00		29.79	5.53	24.98	0.000	1.766
12/31/1983	1.37	0.00	0.00		29.83	5.53	24.98	0.000	1.764
1/31/1984	1.37	0.00	0.00		29.87	5.53	24.98	0.000	1.763
2/29/1984	1.38	0.00	0.00		29.91	5.53	24.98	0.000	1.761
3/31/1984	1.36	0.00	0.00		29.96	5.53	24.98	0.000	1.760
4/30/1984	1.31	0.00	0.00		30.00	5.53	24.98	0.000	1.758
5/31/1984	1.43	0.00	0.00		30.04	5.53	24.98	0.000	1.757
6/30/1984	1.36	0.00	0.00		30.08	5.53	24.98	0.000	1.755
7/31/1984	1.34	0.00	0.00		30.12	5.53	24.98	0.000	1.754
8/31/1984	1.31	0.00	0.00		30.16	5.53	24.98	0.000	1.752
9/30/1984	1.32	0.00	0.00		30.20	5.53	24.98	0.000	1.751
10/31/1984	1.37	0.00	0.00		30.25	5.53	24.98	0.000	1.749
11/30/1984	1.33	0.00	0.00		30.29	5.53	24.98	0.000	1.748
12/31/1984	1.56	0.33	0.21		30.33	5.54	24.98	0.000	1.745
1/31/1985	1.51	0.87	0.58		30.38	5.57	24.98	0.000	1.740
2/28/1985	1.31	0.00	0.00		30.42	5.57	24.98	0.000	1.739
3/31/1985	1.48	0.46	0.31		30.46	5.58	24.98	0.000	1.735
4/30/1985	1.49	0.76	0.51		30.51	5.61	24.98	0.000	1.731
5/31/1985	1.32	0.00	0.00		30.55	5.61	24.98	0.000	1.730
6/30/1985	1.23	3.79	3.08		30.59	5.72	24.98	0.000	1.715
7/31/1985	1.32	0.00	0.00		30.63	5.72	24.98	0.000	1.714
8/31/1985	0.97	0.00	0.00		30.66	5.72	24.98	0.000	1.712
9/30/1985	1.35	0.00	0.00		30.70	5.72	24.98	0.000	1.711
10/31/1985	1.06	0.00	0.00		30.73	5.72	24.98	0.000	1.710
11/30/1985	0.89	0.03	0.03		30.76	5.72	24.98	0.000	1.709
12/31/1985	0.99	0.03	0.03		30.79	5.72	24.98	0.000	1.708
1/31/1986	1.01	0.03	0.03		30.82	5.72	24.98	0.000	1.707
2/28/1986	1.20	0.03	0.02		30.85	5.72	24.98	0.000	1.706
3/31/1986	1.34	0.05	0.04		30.89	5.72	24.98	0.000	1.704
4/30/1986	1.32	0.06	0.05		30.93	5.73	24.98	0.000	1.702
5/31/1986	1.27	0.03	0.03		30.97	5.73	24.98	0.000	1.701
6/30/1986	1.43	0.03	0.02		31.01	5.73	24.98	0.000	1.699
7/31/1986	1.25	0.06	0.05		31.05	5.73	24.98	0.000	1.698
8/31/1986	1.33	0.06	0.04		31.09	5.73	24.98	0.000	1.696
9/30/1986	1.34	0.06	0.04		31.14	5.73	24.98	0.000	1.695
10/31/1986	1.34	0.06	0.04		31.18	5.74	24.98	0.000	1.693
11/30/1986	1.34	0.07	0.05		31.22	5.74	24.98	0.000	1.692
12/31/1986	1.35	0.06	0.04		31.26	5.74	24.98	0.000	1.690
1/31/1987	1.34	0.06	0.04		31.30	5.74	24.98	0.000	1.688
2/28/1987	1.35	0.06	0.04		31.34	5.74	24.98	0.000	1.687

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
3/31/1987	1.34	0.06	0.04		31.38	5.74	24.98	0.000	1.685
4/30/1987	1.34	0.06	0.04		31.42	5.75	24.98	0.000	1.684
5/31/1987	1.29	0.06	0.04		31.46	5.75	24.98	0.000	1.682
6/30/1987	1.29	0.06	0.05		31.50	5.75	24.98	0.000	1.681
7/31/1987	1.31	0.06	0.04		31.54	5.75	24.98	0.000	1.679
8/31/1987	1.34	0.06	0.04		31.58	5.75	24.98	0.000	1.678
9/30/1987	1.36	0.07	0.05		31.62	5.76	24.98	0.000	1.676
10/31/1987	1.17	0.05	0.04		31.66	5.76	24.98	0.000	1.675
11/30/1987	1.31	0.03	0.03		31.70	5.76	24.98	0.000	1.674
12/31/1987	1.27	0.03	0.03		31.74	5.76	24.98	0.000	1.672
1/31/1988	1.25	0.04	0.03		31.78	5.76	24.98	0.000	1.671
2/29/1988	0.70	0.02	0.03		31.80	5.76	24.98	0.000	1.670
3/31/1988	0.91	0.02	0.02		31.82	5.76	24.98	0.000	1.669
4/30/1988	0.87	0.02	0.02		31.85	5.76	24.98	0.000	1.668
5/31/1988	1.22	0.03	0.03		31.89	5.76	24.98	0.000	1.667
6/30/1988	1.15	0.03	0.03		31.92	5.76	24.98	0.000	1.666
7/31/1988	1.29	0.03	0.02		31.96	5.77	24.98	0.000	1.664
8/31/1988	1.23	0.04	0.03		32.00	5.77	24.98	0.000	1.663
9/30/1988	1.28	0.08	0.06		32.04	5.77	24.98	0.000	1.661
10/31/1988	1.26	0.08	0.07		32.08	5.77	24.98	0.000	1.660
11/30/1988	1.33	0.08	0.06		32.12	5.77	24.98	0.000	1.658
12/31/1988	1.21	0.08	0.07		32.16	5.78	24.98	0.000	1.657
1/31/1989	1.17	0.08	0.07		32.19	5.78	24.98	0.000	1.655
2/28/1989	1.14	0.08	0.07		32.22	5.78	24.98	0.000	1.654
3/31/1989	0.50	0.04	0.08		32.24	5.78	24.98	0.000	1.654
4/30/1989	0.41	0.04	0.09		32.25	5.78	24.98	0.000	1.653
5/31/1989	1.35	0.10	0.08		32.29	5.79	24.98	0.000	1.651
6/30/1989	1.43	0.11	0.08		32.34	5.79	24.98	0.000	1.650
7/31/1989	1.31	0.10	0.07		32.38	5.79	24.98	0.000	1.648
8/31/1989	1.13	0.06	0.06		32.41	5.79	24.98	0.000	1.647
9/30/1989	1.09	0.07	0.07		32.44	5.80	24.98	0.000	1.645
10/31/1989	1.01	0.12	0.12		32.48	5.80	24.98	0.000	1.644
11/30/1989	1.04	0.06	0.06		32.51	5.80	24.98	0.000	1.643
12/31/1989	1.13	0.07	0.07		32.54	5.80	24.98	0.000	1.642
1/31/1990	0.99	0.07	0.08		32.57	5.81	24.98	0.000	1.640
2/28/1990	1.18	0.08	0.07		32.61	5.81	24.98	0.000	1.639
3/31/1990	1.40	0.05	0.04		32.65	5.81	24.98	0.000	1.638
4/30/1990	1.21	0.13	0.11		32.69	5.82	24.98	0.000	1.636
5/31/1990	1.16	0.13	0.11		32.72	5.82	24.98	0.000	1.634
6/30/1990	1.26	4.33	3.45		32.76	5.95	24.98	0.000	1.620
7/31/1990	1.36	0.07	0.05		32.80	5.95	24.98	0.000	1.618
8/31/1990	1.28	0.07	0.06		32.84	5.95	24.98	0.000	1.617
9/30/1990	1.21	0.09	0.08		32.88	5.96	24.98	0.000	1.615
10/31/1990	1.16	0.08	0.07		32.91	5.96	24.98	0.000	1.614
11/30/1990	1.13	0.05	0.05		32.95	5.96	24.98	0.000	1.613
12/31/1990	1.15	0.08	0.07		32.98	5.96	24.98	0.000	1.611
1/31/1991	1.27	0.07	0.05		33.02	5.96	24.98	0.000	1.610
2/28/1991	1.24	0.13	0.10		33.06	5.97	24.98	0.000	1.609

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
3/31/1991	1.23	0.08	0.06		33.09	5.97	24.98	0.000	1.607
4/30/1991	1.20	0.12	0.10		33.13	5.97	24.98	0.000	1.606
5/31/1991	1.20	0.07	0.06		33.17	5.98	24.98	0.000	1.604
6/30/1991	1.30	0.03	0.03		33.21	5.98	24.98	0.000	1.603
7/31/1991	1.25	0.05	0.04		33.25	5.98	24.98	0.000	1.602
8/31/1991	0.99	0.08	0.08		33.28	5.98	24.98	0.000	1.601
9/30/1991	1.27	0.06	0.05		33.31	5.98	24.98	0.000	1.599
10/31/1991	1.20	0.05	0.04		33.35	5.99	24.98	0.000	1.598
11/30/1991	1.28	0.09	0.07		33.39	5.99	24.98	0.000	1.597
12/31/1991	1.25	0.07	0.06		33.43	5.99	24.98	0.000	1.595
1/31/1992	1.24	0.33	0.26		33.47	6.00	24.98	0.000	1.593
2/29/1992	1.15	0.09	0.08		33.50	6.00	24.98	0.000	1.592
3/31/1992	1.25	0.08	0.06		33.54	6.01	24.98	0.000	1.590
4/30/1992	1.30	0.08	0.06		33.58	6.01	24.98	0.000	1.589
5/31/1992	1.27	0.08	0.06		33.62	6.01	24.98	0.000	1.588
6/30/1992	1.27	0.08	0.06		33.66	6.01	24.98	0.000	1.586
7/31/1992	1.39	0.05	0.04		33.70	6.01	24.98	0.000	1.585
8/31/1992	1.18	0.07	0.06		33.74	6.02	24.98	0.000	1.584
9/30/1992	1.21	0.08	0.07		33.77	6.02	24.98	0.000	1.582
10/31/1992	1.18	0.08	0.07		33.81	6.02	24.98	0.000	1.581
11/30/1992	1.06	0.10	0.10		33.84	6.02	24.98	0.000	1.580
12/31/1992	1.25	0.04	0.03		33.88	6.03	24.98	0.000	1.579
1/31/1993	0.91	0.03	0.04		33.91	6.03	24.98	0.000	1.578
2/28/1993	1.23	0.06	0.05		33.94	6.03	24.98	0.000	1.576
3/31/1993	1.13	0.15	0.13		33.98	6.03	24.98	0.000	1.575
4/30/1993	1.27	0.05	0.04		34.01	6.03	24.98	0.000	1.574
5/31/1993	1.23	0.08	0.07		34.05	6.04	24.98	0.000	1.572
6/30/1993	1.23	0.08	0.06		34.09	6.04	24.98	0.000	1.571
7/31/1993	1.15	0.08	0.07		34.13	6.04	24.98	0.000	1.570
8/31/1993	1.22	0.07	0.06		34.16	6.04	24.98	0.000	1.569
9/30/1993	1.21	0.01	0.01		34.20	6.04	24.98	0.000	1.568
10/31/1993	1.18	0.02	0.02		34.24	6.04	24.98	0.000	1.566
11/30/1993	1.16	0.03	0.02		34.27	6.05	24.98	0.000	1.565
12/31/1993	0.98	0.01	0.01		34.30	6.05	24.98	0.000	1.564
1/31/1994	0.72	0.01	0.02		34.32	6.05	24.98	0.000	1.564
2/28/1994	1.05	0.00	0.00		34.35	6.05	24.98	0.000	1.563
3/31/1994	0.94	0.01	0.01		34.38	6.05	24.98	0.000	1.562
4/30/1994	0.61	0.01	0.01		34.40	6.05	24.98	0.000	1.562
5/31/1994	1.03	0.06	0.06		34.43	6.05	24.98	0.000	1.560
6/30/1994	1.64	0.02	0.01		34.48	6.05	24.98	0.000	1.559
7/31/1994	1.23	0.02	0.01		34.52	6.05	24.98	0.000	1.558
8/31/1994	1.23	0.04	0.03		34.56	6.05	24.98	0.000	1.557
9/30/1994	1.16	0.00	0.00		34.59	6.05	24.98	0.000	1.556
10/31/1994	1.24	0.00	0.00		34.63	6.05	24.98	0.000	1.555
11/30/1994	1.15	0.00	0.00		34.67	6.05	24.98	0.000	1.554
12/31/1994	0.94	0.01	0.01		34.70	6.05	24.98	0.000	1.553
1/31/1995	0.87	0.04	0.05		34.72	6.05	24.98	0.000	1.552
2/28/1995	0.90	0.02	0.02		34.75	6.05	24.98	0.000	1.551

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
3/31/1995	0.89	0.03	0.04		34.77	6.05	24.98	0.000	1.550
4/30/1995	1.25	0.08	0.06		34.81	6.06	24.98	0.000	1.549
5/31/1995	1.31	0.02	0.02		34.85	6.06	24.98	0.000	1.548
6/30/1995	1.33	0.02	0.02		34.89	6.06	24.98	0.000	1.547
7/31/1995	1.22	0.02	0.02		34.93	6.06	24.98	0.000	1.546
8/31/1995	1.32	0.02	0.01		34.97	6.06	24.98	0.000	1.544
9/30/1995	1.18	0.05	0.05		35.01	6.06	24.98	0.000	1.543
10/31/1995	1.12	0.05	0.04		35.04	6.06	24.98	0.000	1.542
11/30/1995	0.89	0.06	0.06		35.07	6.06	24.98	0.000	1.541
12/31/1995	1.05	0.06	0.06		35.10	6.07	24.98	0.000	1.540
1/31/1996	0.98	0.05	0.05		35.13	6.07	24.98	0.000	1.539
2/29/1996	0.93	0.05	0.06		35.16	6.07	24.98	0.000	1.538
3/31/1996	0.99	0.04	0.04		35.19	6.07	24.98	0.000	1.537
4/30/1996	0.92	0.05	0.05		35.22	6.07	24.98	0.000	1.536
5/31/1996	0.63	0.04	0.06		35.24	6.07	24.98	0.000	1.536
6/30/1996	0.69	0.05	0.07		35.26	6.07	24.98	0.000	1.535
7/31/1996	1.08	0.04	0.04		35.29	6.08	24.98	0.000	1.534
8/31/1996	1.06	0.06	0.05		35.32	6.08	24.98	0.000	1.533
9/30/1996	1.21	0.08	0.06		35.36	6.08	24.98	0.000	1.532
10/31/1996	1.23	0.09	0.07		35.40	6.08	24.98	0.000	1.531
11/30/1996	1.22	0.08	0.07		35.43	6.08	24.98	0.000	1.529
12/31/1996	1.13	0.12	0.10		35.47	6.09	24.98	0.000	1.528
1/31/1997	1.34	0.09	0.07		35.51	6.09	24.98	0.000	1.527
2/28/1997	1.21	0.12	0.10		35.54	6.09	24.98	0.000	1.525
3/31/1997	0.97	0.14	0.15		35.57	6.10	24.98	0.000	1.524
4/30/1997	0.95	0.09	0.10		35.60	6.10	24.98	0.000	1.523
5/31/1997	1.10	0.05	0.05		35.64	6.10	24.98	0.000	1.522
6/30/1997	1.15	0.06	0.05		35.67	6.11	24.98	0.000	1.521
7/31/1997	1.02	0.06	0.06		35.70	6.11	24.98	0.000	1.520
8/31/1997	1.19	0.05	0.04		35.74	6.11	24.98	0.000	1.519
9/30/1997	1.19	0.05	0.04		35.78	6.11	24.98	0.000	1.518
10/31/1997	1.02	0.06	0.06		35.81	6.11	24.98	0.000	1.517
11/30/1997	1.05	0.08	0.08		35.84	6.11	24.98	0.000	1.516
12/31/1997	0.88	0.05	0.05		35.87	6.12	24.98	0.000	1.515
1/31/1998	0.85	0.06	0.07		35.89	6.12	24.98	0.000	1.514
2/28/1998	0.83	0.05	0.06		35.92	6.12	24.98	0.000	1.513
3/31/1998	0.85	0.04	0.04		35.94	6.12	24.98	0.000	1.512
4/30/1998	0.92	0.06	0.07		35.97	6.12	24.98	0.000	1.512
5/31/1998	0.90	0.05	0.06		36.00	6.12	24.98	0.000	1.511
6/30/1998	1.32	0.08	0.06		36.04	6.13	24.98	0.000	1.509
7/31/1998	1.38	0.09	0.07		36.08	6.13	24.98	0.000	1.508
8/31/1998	1.25	0.06	0.05		36.12	6.13	24.98	0.000	1.507
9/30/1998	1.21	0.07	0.06		36.16	6.13	24.98	0.000	1.506
10/31/1998	1.20	0.08	0.07		36.19	6.14	24.98	0.000	1.505
11/30/1998	1.17	0.08	0.07		36.23	6.14	24.98	0.000	1.503
12/31/1998	0.83	0.04	0.05		36.25	6.14	24.98	0.000	1.503
1/31/1999	0.88	0.07	0.08		36.28	6.14	24.98	0.000	1.502
2/28/1999	0.91	0.06	0.07		36.31	6.14	24.98	0.000	1.501

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
3/31/1999	0.87	0.05	0.06		36.33	6.14	24.98	0.000	1.500
4/30/1999	1.66	0.08	0.05		36.38	6.15	24.98	0.000	1.498
5/31/1999	1.33	0.09	0.07		36.42	6.15	24.98	0.000	1.497
6/30/1999	1.20	0.10	0.08		36.46	6.15	24.98	0.000	1.496
7/31/1999	1.29	0.09	0.07		36.50	6.16	24.98	0.000	1.495
8/31/1999	1.09	0.06	0.06		36.53	6.16	24.98	0.000	1.494
9/30/1999	1.13	0.13	0.12		36.57	6.16	24.98	0.000	1.492
10/31/1999	1.14	0.07	0.06		36.60	6.16	24.98	0.000	1.491
11/30/1999	1.08	0.10	0.10		36.64	6.17	24.98	0.000	1.490
12/31/1999	1.06	0.14	0.13		36.67	6.17	24.98	0.000	1.489
1/31/2000	1.12	0.10	0.09		36.70	6.17	24.98	0.000	1.488
2/29/2000	1.10	0.07	0.07		36.73	6.18	24.98	0.000	1.487
3/31/2000	1.00	0.05	0.05		36.77	6.18	24.98	0.000	1.486
4/30/2000	1.06	0.11	0.10		36.80	6.18	24.98	0.000	1.485
5/31/2000	0.97	0.06	0.07		36.83	6.18	24.98	0.000	1.484
6/30/2000	0.93	0.07	0.08		36.86	6.19	24.98	0.000	1.483
7/31/2000	1.09	0.09	0.08		36.89	6.19	24.98	0.000	1.482
8/31/2000	1.09	0.08	0.08		36.92	6.19	24.98	0.000	1.481
9/30/2000	0.92	0.07	0.07		36.95	6.19	24.98	0.000	1.480
10/31/2000	1.00	0.07	0.07		36.98	6.19	24.98	0.000	1.479
11/30/2000	1.11	0.10	0.09		37.02	6.20	24.98	0.000	1.478
12/31/2000	1.19	0.07	0.06		37.05	6.20	24.98	0.000	1.477
1/31/2001	1.10	0.09	0.08		37.09	6.20	24.98	0.000	1.476
2/28/2001	1.11	0.08	0.07		37.12	6.20	24.98	0.000	1.475
3/31/2001	1.12	0.07	0.06		37.15	6.21	24.98	0.000	1.474
4/30/2001	1.12	0.07	0.06		37.19	6.21	24.98	0.000	1.472
5/31/2001	0.81	0.09	0.12		37.21	6.21	24.98	0.000	1.472
6/30/2001	0.63	0.07	0.11		37.23	6.21	24.98	0.000	1.471
7/31/2001	0.69	0.06	0.08		37.25	6.22	24.98	0.000	1.470
8/31/2001	0.65	0.06	0.09		37.27	6.22	24.98	0.000	1.470
9/30/2001	0.62	0.07	0.11		37.29	6.22	24.98	0.000	1.469
10/31/2001	0.64	0.06	0.09		37.31	6.22	24.98	0.000	1.468
11/30/2001	0.76	0.05	0.07		37.33	6.22	24.98	0.000	1.468
12/31/2001	0.70	0.05	0.06		37.35	6.22	24.98	0.000	1.467
1/31/2002	0.67	0.05	0.07		37.37	6.23	24.98	0.000	1.466
2/28/2002	0.63	0.05	0.07		37.39	6.23	24.98	0.000	1.466
3/31/2002	0.61	0.04	0.07		37.41	6.23	24.98	0.000	1.465
4/30/2002	0.61	0.04	0.07		37.43	6.23	24.98	0.000	1.465
5/31/2002	0.78	0.08	0.10		37.45	6.23	24.98	0.000	1.464
6/30/2002	0.92	0.19	0.20		37.48	6.24	24.98	0.000	1.463
7/31/2002	0.94	0.11	0.12		37.51	6.24	24.98	0.000	1.462
8/31/2002	0.70	0.05	0.07		37.53	6.24	24.98	0.000	1.461
9/30/2002	0.69	0.05	0.07		37.55	6.24	24.98	0.000	1.460
10/31/2002	0.49	0.04	0.07		37.57	6.25	24.98	0.000	1.460
11/30/2002	0.67	0.05	0.08		37.59	6.25	24.98	0.000	1.459
12/31/2002	0.73	0.05	0.08		37.61	6.25	24.98	0.000	1.459
1/31/2003	0.69	0.05	0.08		37.63	6.25	24.98	0.000	1.458
2/28/2003	0.61	0.05	0.09		37.65	6.25	24.98	0.000	1.457

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
3/31/2003	0.63	0.05	0.08		37.67	6.25	24.98	0.000	1.457
4/30/2003	0.64	0.05	0.08		37.69	6.25	24.98	0.000	1.456
5/31/2003	0.65	0.05	0.08		37.71	6.26	24.98	0.000	1.455
6/30/2003	0.68	0.05	0.07		37.73	6.26	24.98	0.000	1.455
7/31/2003	0.65	0.05	0.08		37.75	6.26	24.98	0.000	1.454
8/31/2003	0.63	0.05	0.08		37.77	6.26	24.98	0.000	1.454
9/30/2003	0.56	0.05	0.09		37.79	6.26	24.98	0.000	1.453
10/31/2003	0.59	0.05	0.09		37.80	6.26	24.98	0.000	1.452
11/30/2003	0.61	0.06	0.09		37.82	6.27	24.98	0.000	1.452
12/31/2003	0.61	0.05	0.09		37.84	6.27	24.98	0.000	1.451
1/31/2004	0.57	0.05	0.10		37.86	6.27	24.98	0.000	1.451
2/29/2004	0.57	0.06	0.10		37.87	6.27	24.98	0.000	1.450
3/31/2004	0.55	0.05	0.09		37.89	6.27	24.98	0.000	1.450
4/30/2004	0.58	0.05	0.09		37.91	6.27	24.98	0.000	1.449
5/31/2004	0.60	0.05	0.09		37.93	6.28	24.98	0.000	1.448
6/30/2004	0.65	0.06	0.09		37.95	6.28	24.98	0.000	1.448
7/31/2004	0.62	0.05	0.08		37.97	6.28	24.98	0.000	1.447
8/31/2004	0.59	0.05	0.09		37.98	6.28	24.98	0.000	1.447
9/30/2004	0.58	0.04	0.07		38.00	6.28	24.98	0.000	1.446
10/31/2004	0.74	0.06	0.08		38.02	6.28	24.98	0.000	1.445
11/30/2004	0.72	0.05	0.07		38.05	6.29	24.98	0.000	1.445
12/31/2004	0.68	0.05	0.08		38.07	6.29	24.98	0.000	1.444
1/31/2005	0.54	0.04	0.08		38.08	6.29	24.98	0.000	1.444
2/28/2005	0.59	0.05	0.08		38.10	6.29	24.98	0.000	1.443
3/31/2005	0.56	0.04	0.07		38.12	6.29	24.98	0.000	1.443
4/30/2005	0.61	0.04	0.07		38.14	6.29	24.98	0.000	1.442
5/31/2005	0.58	0.04	0.07		38.15	6.29	24.98	0.000	1.442
6/30/2005	0.60	0.04	0.07		38.17	6.29	24.98	0.000	1.441
7/31/2005	0.60	0.04	0.07		38.19	6.30	24.98	0.000	1.440
8/31/2005	0.65	0.04	0.06		38.21	6.30	24.98	0.000	1.440
9/30/2005	0.63	0.04	0.07		38.23	6.30	24.98	0.000	1.439
10/31/2005	0.61	0.04	0.06		38.25	6.30	24.98	0.000	1.439
11/30/2005	0.63	0.04	0.06		38.27	6.30	24.98	0.000	1.438
12/31/2005	0.64	0.04	0.07		38.29	6.30	24.98	0.000	1.438
1/31/2006	0.71	0.04	0.06		38.31	6.30	24.98	0.000	1.437
2/28/2006	0.61	0.04	0.06		38.33	6.30	24.98	0.000	1.436
3/31/2006	0.57	0.04	0.07		38.34	6.31	24.98	0.000	1.436
4/30/2006	0.56	0.04	0.07		38.36	6.31	24.98	0.000	1.435
5/31/2006	0.56	0.05	0.08		38.38	6.31	24.98	0.000	1.435
6/30/2006	0.63	0.05	0.08		38.40	6.31	24.98	0.000	1.434
7/31/2006	0.58	0.05	0.08		38.41	6.31	24.98	0.000	1.434
8/31/2006	0.62	0.05	0.08		38.43	6.31	24.98	0.000	1.433
9/30/2006	0.64	0.05	0.07		38.45	6.31	24.98	0.000	1.433
10/31/2006	0.61	0.05	0.09		38.47	6.32	24.98	0.000	1.432
11/30/2006	0.67	0.05	0.07		38.49	6.32	24.98	0.000	1.431
12/31/2006	0.62	0.04	0.06		38.51	6.32	24.98	0.000	1.431
1/31/2007	0.61	0.05	0.08		38.53	6.32	24.98	0.000	1.430
2/28/2007	0.59	0.05	0.08		38.55	6.32	24.98	0.000	1.430

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
3/31/2007	0.59	0.04	0.06		38.57	6.32	24.98	0.000	1.429
4/30/2007	0.56	0.05	0.08		38.58	6.32	24.98	0.000	1.429
5/31/2007	0.53	0.05	0.10		38.60	6.33	24.98	0.000	1.428
6/30/2007	0.60	0.05	0.09		38.62	6.33	24.98	0.000	1.428
7/31/2007	0.53	0.07	0.13		38.63	6.33	24.98	0.000	1.427
8/31/2007	0.58	0.08	0.15		38.65	6.33	24.98	0.000	1.427
9/30/2007	0.50	0.08	0.16		38.67	6.33	24.98	0.000	1.426
10/31/2007	0.54	0.10	0.19		38.68	6.34	24.98	0.000	1.425
11/30/2007	0.56	0.10	0.18		38.70	6.34	24.98	0.000	1.425
12/31/2007	0.56	0.10	0.18		38.72	6.34	24.98	0.000	1.424
1/31/2008	0.55	0.10	0.17		38.73	6.35	24.98	0.000	1.423
2/29/2008	0.58	0.10	0.17		38.75	6.35	24.98	0.000	1.423
3/31/2008	0.58	0.10	0.17		38.77	6.35	24.98	0.000	1.422
4/30/2008	0.67	0.04	0.06		38.79	6.35	24.98	0.000	1.422
5/31/2008	0.69	0.02	0.03		38.81	6.35	24.98	0.000	1.421
6/30/2008	0.70	0.02	0.03		38.83	6.35	24.98	0.000	1.420
7/31/2008	0.65	0.02	0.03		38.85	6.36	24.98	0.000	1.420
8/31/2008	0.70	0.02	0.03		38.87	6.36	24.98	0.000	1.419
9/30/2008	0.71	0.02	0.03		38.89	6.36	24.98	0.000	1.419
10/31/2008	0.70	0.02	0.02		38.92	6.36	24.98	0.000	1.418
11/30/2008	0.72	0.02	0.03		38.94	6.36	24.98	0.000	1.418
12/31/2008	0.38	0.01	0.03		38.95	6.36	24.98	0.000	1.417
1/31/2009	0.67	0.02	0.03		38.97	6.36	24.98	0.000	1.417
2/28/2009	0.59	0.03	0.05		38.99	6.36	24.98	0.000	1.416
3/31/2009	0.76	0.10	0.13		39.01	6.36	24.98	0.000	1.416
4/30/2009	0.77	0.11	0.14		39.03	6.37	24.98	0.000	1.415
5/31/2009	0.65	0.10	0.15		39.05	6.37	24.98	0.000	1.414
7/31/2009	1.06	0.20	0.18		39.09	6.38	24.98	0.000	1.413
8/31/2009	1.15	0.21	0.18		39.12	6.38	24.98	0.000	1.412
9/30/2009	1.16	0.21	0.18		39.16	6.39	24.98	0.000	1.410
10/31/2009	1.08	0.18	0.17		39.19	6.39	24.98	0.000	1.409
11/30/2009	1.01	0.18	0.18		39.22	6.40	24.98	0.000	1.408
12/31/2009	1.06	0.18	0.17		39.25	6.40	24.98	0.000	1.407
1/31/2010	0.98	0.17	0.18		39.28	6.41	24.98	0.000	1.406
2/28/2010	1.15	0.21	0.19		39.32	6.42	24.98	0.000	1.404
3/31/2010	1.16	0.23	0.20		39.35	6.42	24.98	0.000	1.403
4/30/2010	1.11	0.28	0.25		39.39	6.43	24.98	0.000	1.402
5/31/2010	0.94	0.27	0.29		39.42	6.44	24.98	0.000	1.400
6/30/2010	0.83	0.25	0.30		39.44	6.45	24.98	0.000	1.399
7/31/2010	0.68	0.19	0.28		39.46	6.45	24.98	0.000	1.398
8/31/2010	1.17	0.29	0.25		39.50	6.46	24.98	0.000	1.397
9/30/2010	1.09	0.28	0.25		39.53	6.47	24.98	0.000	1.395
10/31/2010	1.09	0.28	0.26		39.56	6.48	24.98	0.000	1.394
11/30/2010	1.07	0.27	0.25		39.60	6.49	24.98	0.000	1.392
12/31/2010	1.08	0.34	0.31		39.63	6.50	24.98	0.000	1.391