

**EAST ROUTLEDGE UNIT NO. 1
WATERFLOOD EOR PROJECT**

ANNUAL REPORT FOR 2011

March 4, 2012

Tundra Oil and Gas Partnership

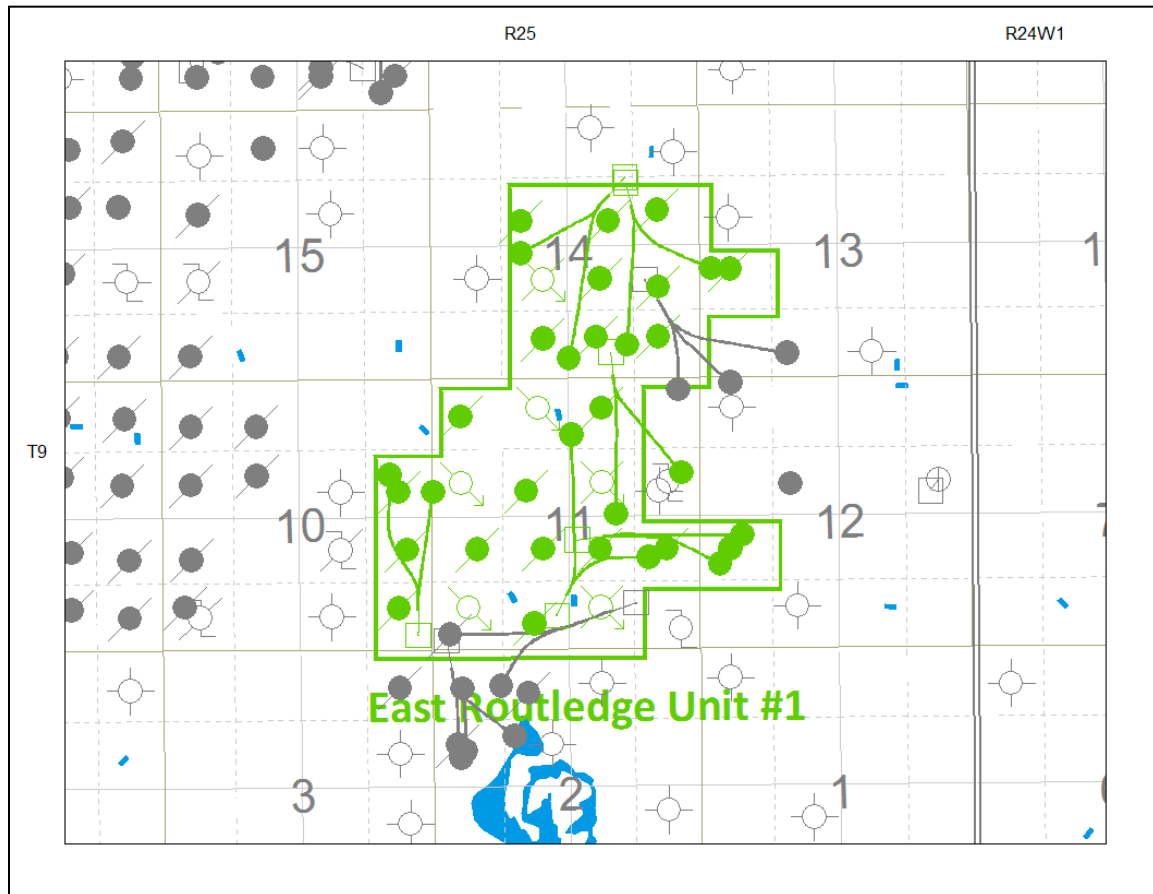
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INTRODUCTION

East Routledge Unit No. 1 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Board Order No. PM 20 effective May 1972 with Samedan Oil of Canada Ltd. as Operator. Tundra acquired the unit from Topa Resources Ltd. and become operator in April 2002. The EOR project area contains 39 wells in 27 LSDs in Township 9, Range 25 W1 as shown in the figure below. Well list and well status is available in Appendix A.

Figure 1: East Routledge Unit No. 1 Area Outline



In accordance with Section 73 of the Manitoba Drilling and Production Regulation, Tundra hereby submits the 2011 Annual Progress Report for East Routledge Unit No. 1 as required by Broad Order No. PM 20.

DISCUSSION

Production History

For the wells included in East Routledge Unit No. 1, production started January 1964 with 00/07-11-009-25W1/0 well. Oil production peaked at 140 m³/d in March 1968. The Unit was producing 11.4 m³/d of oil and 744 m³/d of water, in December 2011. The water oil ratio (WOR) averaged 60 m³/m³ in 2011. The rates and WOR are plotted in Figure 2.

Figure 2: East Routledge Unit No. 1 Production/Injection Rates and WOR vs. Time

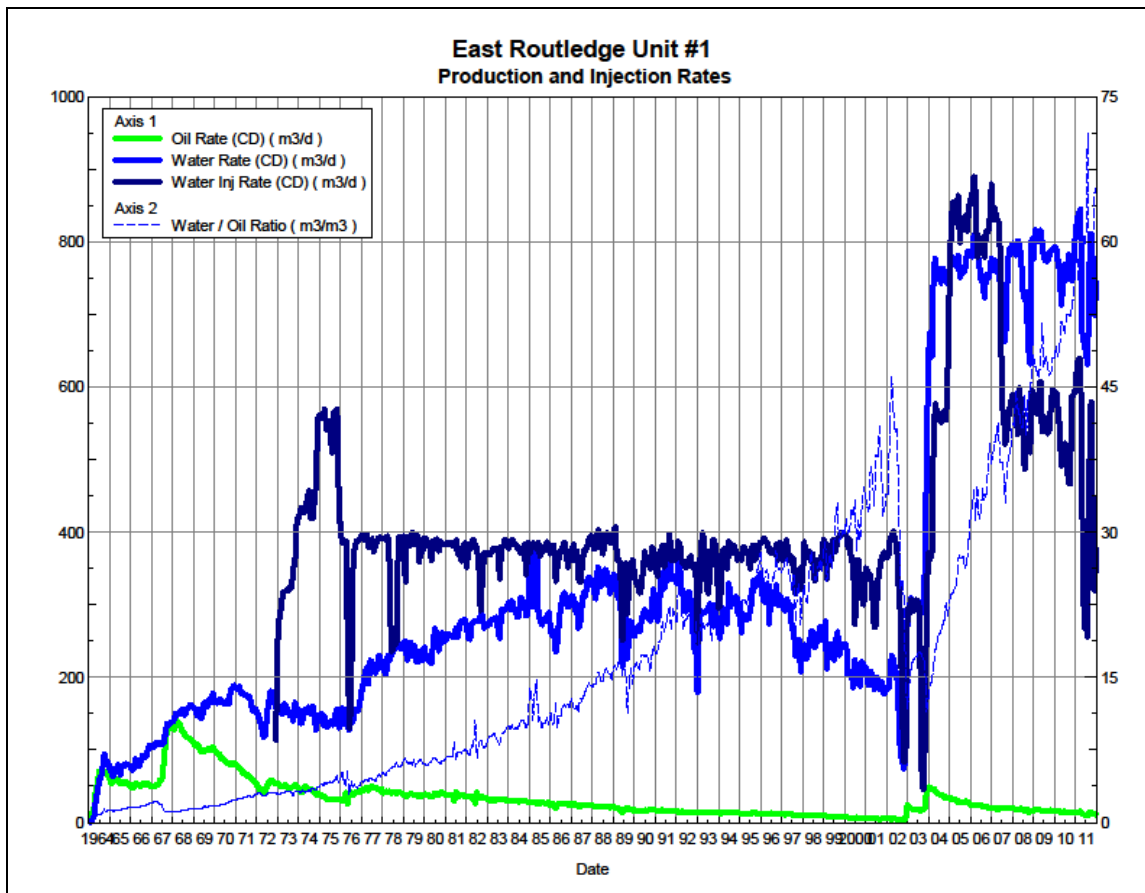
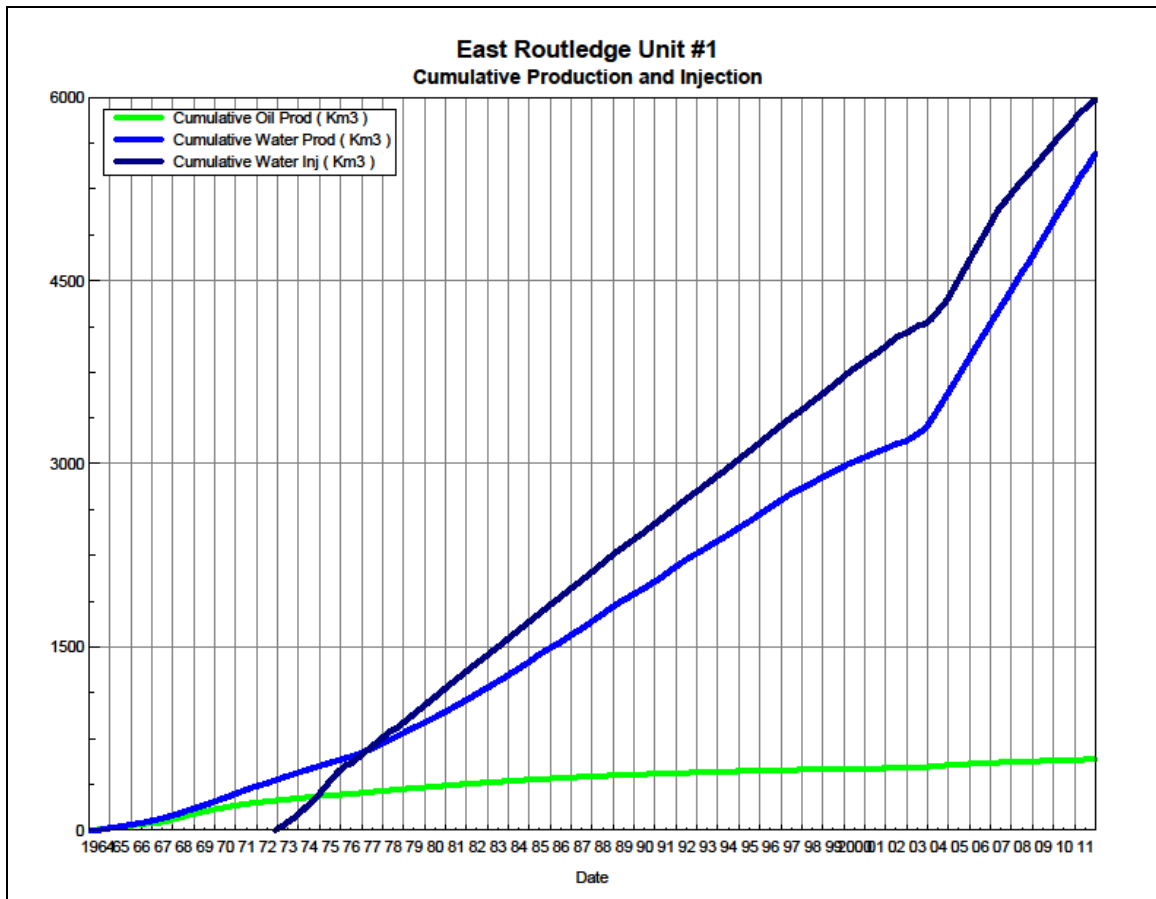


Figure 3 shows the cumulative production for East Routledge Unit No. 1 to the end of December 2011 as 581 E³m³ of oil, and 5539 E³m³ of water. The cumulative water injected is 5800 E³m³.

Figure 3: East Routledge Unit No. 1 Cumulative Oil, Water and Water Injected vs. Time



Waterflood History

As of December 2011 the Unit has 3 active vertical injectors and injector patterns in place. Water injection started in August 1964. The injector in the northernmost pattern 00/06-14-009-25W1 was abandoned in 2003.

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

Currently there is no source water being used at East Routledge Unit No. 1. Produced water is re-injected back into the formation after filtration.

Injection Wellhead Pressures

The Average monthly wellhead injection pressures, for each injection well, are summarized in Appendix B, and show all injection pressure since 2003. Average pressure for the injectors is as follows: 4044 kPag for 00/14-11-009-25W1/00, 2137 kPag for 00/12-11-009-25W1/00 and 4491 kPag for 00/04-11-009-25W1/00.

Reservoir Pressure

No reservoir pressure measurements were taken at East Routledge Unit No. 1, in 2011.

Well Servicing

No maintenance was required on 5 wells in East Routledge Unit No. 1, in 2011.

Voidage Replacement

Cumulative voidage for the East Routledge Unit No. 1 was 1.05 in December 2011. Tundra hopes to maintain this cumulative VRR, by keeping water injection at its current rate for the foreseeable future. Calculation, plots and tables of the Voidage replacement ratio on a monthly and cumulative basis for each injection pattern and for the project area are presented in Appendix D.

Waterflood Performance Discussion

OOIP for East Routledge Unit No. 1 is 1684 E³m³. Current recovery factor within the Unit is approximately 35%. Ultimate recovery factor for the East Routledge Unit No. 1 is estimated to approach 40% by decline analysis. The flood has significantly outperformed the predicted estimated ultimate recovery factor of 31.5% last predicted in June 1988.

Overall this waterflood has been extremely effective as evident by the significantly high estimated ultimate recovery factor. Two major factors have contributed to the Unit's high recovery. The first is time; this is a mature waterflood that has been in operation and managed relatively well for nearly 40yrs. The unit has been producing at watercuts close to 95% for the last 20 years indicating that the flood is in the late stages of its production life, post water breakthrough etc. The second major factor that has led to such a high recovery factor has to do with development that occurred in 2002-2003 when horizontal drilling technology was applied to the unit. When Hz wells were drilled into the unit, unit production increased nearly 10 fold. A portion of the reserves recovered by each Hz well can be attributed to production acceleration, however, with such a dramatic effect on the unit's overall production, it is clear that incremental reserves were also encountered when the Hz wells were drilled. These incremental reserves have also contributed to the Unit's overall high recovery factor.

Tundra has no definite plans to significantly alter the way in which the waterflood at East Routledge No. 1 is currently operating; i.e. no drilling plans. The focus at this phase in the pool's development is really acceleration of long-life post water breakthrough (high WCT) reserves; in the foreseeable future Tundra will focus on smaller capex items such as pump up-sizes and potentially 1-2 electrical submersible pump installations.

List of Appendices

Appendix A: Well Name and Well Status

Appendix B: Monthly Injection Wellhead Pressures Table and Plots

Appendix C: East Routledge Unit No.1 Injection Pattern Summary

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

Plots and Tables for the following injectors:

00/04-11-009-25W1/00

00/12-11-009-25W1/00

00/06-14-009-25W1/00

Appendix A

| UWI | Surface Location | Well Status |
|-----------------------|------------------|---------------------|
| 100/01-10-009-25W1/00 | | ABD Producer |
| 100/08-10-009-25W1/00 | | ABD Producer |
| 100/09-10-009-25W1/00 | | ABD Producer |
| 102/09-10-009-25W1/00 | 01-10-009-25W1 | Capable of OIL Prod |
| 102/09-10-009-25W1/02 | 01-10-009-25W1 | Capable of OIL Prod |
| 100/02-11-009-25W1/00 | | ABD WTR Injection |
| 100/03-11-009-25W1/00 | | ABD Producer |
| 100/04-11-009-25W1/00 | | WTR Injection |
| 100/05-11-009-25W1/00 | | ABD Producer |
| 100/06-11-009-25W1/00 | | ABD Producer |
| 100/07-11-009-25W1/00 | | ABD Producer |
| 100/08-11-009-25W1/00 | | ABD Producer |
| 102/08-11-009-25W1/00 | 03-11-009-25W1 | Capable of OIL Prod |
| 103/09-11-009-25W1/02 | 02-14-009-25W1 | Capable of OIL Prod |
| 100/10-11-009-25W1/00 | | ABD WTR Injection |
| 102/10-11-009-25W1/00 | 02-14-009-25W1 | Capable of OIL Prod |
| 100/11-11-009-25W1/00 | | ABD Producer |
| 100/12-11-009-25W1/00 | | WTR Injection |
| 100/13-11-009-25W1/00 | | ABD Producer |
| 100/14-11-009-25W1/00 | | WTR Injection |
| 100/15-11-009-25W1/00 | | ABD Producer |
| 102/15-11-009-25W1/02 | 03-11-009-25W1 | Capable of OIL Prod |
| 100/05-12-009-25W1/00 | | ABD Producer |
| 102/05-12-009-25W1/00 | 07-11-009-25W1 | Capable of OIL Prod |
| 103/05-12-009-25W1/02 | 07-11-009-25W1 | Capable of OIL Prod |
| 100/05-13-009-25W1/00 | | ABD Producer |
| 102/05-13-009-25W1/00 | 10-14-009-25W1 | Capable of OIL Prod |
| 100/01-14-009-25W1/00 | | ABD Producer |
| 100/02-14-009-25W1/00 | | ABD Producer |
| 102/02-14-009-25W1/00 | 10-14-009-25W1 | Capable of OIL Prod |
| 102/02-14-009-25W1/02 | 10-14-009-25W1 | Capable of OIL Prod |
| 100/03-14-009-25W1/00 | | ABD Producer |
| 100/06-14-009-25W1/00 | | ABD WTR Injection |
| 102/06-14-009-25W1/02 | 10-14-009-25W1 | Capable of OIL Prod |
| 100/07-14-009-25W1/00 | | ABD Producer |
| 100/08-14-009-25W1/00 | | ABD Producer |
| 100/09-14-009-25W1/00 | | ABD Producer |
| 100/10-14-009-25W1/00 | | ABD Producer |
| 100/11-14-009-25W1/00 | | ABD Producer |

Appendix B

Average Monthly Injection Pressure (kPag)

| Injection Pressure | | | | | Injection Pressure | | | | | Injection Pressure | | | | |
|--------------------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|
| Month | 100/04-11 | 100/12-11 | 100/14-11 | 100/06-14 | Month | 100/04-11 | 100/12-11 | 100/14-11 | 100/06-14 | Month | 100/04-11 | 100/12-11 | 100/14-11 | 100/06-14 |
| Aug-02 | 0 | - | - | - | Jan-06 | 6297 | 2061 | 5619 | - | Jan-10 | 4119 | 2200 | 4400 | - |
| Sep-02 | 0 | - | - | - | Feb-06 | 6714 | 2636 | 5404 | - | Feb-10 | 4007 | 2200 | 4400 | - |
| Oct-02 | 0 | - | - | - | Mar-06 | 6674 | 3171 | 5687 | - | Mar-10 | 4016 | 2266 | 4406 | - |
| Nov-02 | 0 | - | - | - | Apr-06 | 6053 | 2933 | 5193 | - | Apr-10 | 4057 | 2430 | 4437 | - |
| Dec-02 | 0 | 0 | 0 | 0 | May-06 | 6606 | 2039 | 5598 | - | May-10 | 4074 | 2465 | 4432 | - |
| Jan-03 | 900 | 929 | 929 | 0 | Jun-06 | 6788 | 2000 | 6033 | - | Jun-10 | 4123 | 2430 | 4433 | - |
| Feb-03 | 4839 | 4816 | 4881 | 0 | Jul-06 | 7063 | 2000 | 6045 | - | Jul-10 | 4042 | 2223 | 4342 | - |
| Mar-03 | 4834 | 4865 | 4900 | 353 | Aug-06 | 6665 | 2000 | 5929 | - | Aug-10 | 3758 | 1803 | 3839 | - |
| Apr-03 | 4800 | 4800 | 4800 | 36 | Sep-06 | 6897 | 2000 | 6107 | - | Sep-10 | 3753 | 1920 | 4300 | - |
| May-03 | 4958 | 5394 | 5394 | - | Oct-06 | 7248 | 2000 | 6194 | - | Oct-10 | 4184 | 1923 | 4865 | - |
| Jun-03 | 5100 | 6000 | 6000 | - | Nov-06 | 7200 | 2000 | 6000 | - | Nov-10 | 4230 | 1900 | 5033 | - |
| Jul-03 | 5100 | 6000 | 6000 | - | Dec-06 | 7200 | 1971 | 6058 | - | Dec-10 | 4158 | 1900 | 5000 | - |
| Aug-03 | 1338 | 5138 | 4050 | - | Jan-07 | 7200 | 1900 | 6200 | - | Jan-11 | 4435 | 1900 | 5097 | - |
| Sep-03 | 400 | - | - | - | Feb-07 | 7200 | 1900 | 6200 | - | Feb-11 | 4518 | 1900 | 5071 | - |
| Oct-03 | 1587 | 5000 | 5000 | - | Mar-07 | 7168 | 1900 | 6200 | - | Mar-11 | 4590 | 1900 | 5200 | - |
| Nov-03 | 4870 | 4870 | 4870 | - | Apr-07 | 6950 | 1900 | 6200 | - | Apr-11 | 4213 | 1900 | 4360 | - |
| Dec-03 | 5550 | 5647 | 5741 | - | May-07 | 6863 | 1958 | 6084 | - | May-11 | 3616 | 1900 | 3800 | - |
| Jan-04 | 4729 | 5858 | 6000 | - | Jun-07 | 6121 | 2125 | 5793 | - | Jun-11 | 3200 | 1900 | 3800 | - |
| Feb-04 | 6200 | 6100 | 6000 | - | Jul-07 | 4685 | 2310 | 5368 | - | Jul-11 | 3200 | 1900 | 3800 | - |
| Mar-04 | 5184 | 5319 | 5000 | - | Aug-07 | 4027 | 2121 | 5076 | - | Aug-11 | 4139 | 1900 | 3800 | - |
| Apr-04 | 5837 | 4513 | 4100 | - | Sep-07 | 3955 | 2100 | 5200 | - | Sep-11 | 4800 | 1900 | 3800 | - |
| May-04 | 5819 | 4594 | 4206 | - | Oct-07 | 4202 | 2100 | 5626 | - | Oct-11 | 4742 | 1900 | 3800 | - |
| Jun-04 | 5817 | 4637 | 4220 | - | Nov-07 | 4193 | 2100 | 5567 | - | Nov-11 | 4260 | 1900 | 3800 | - |
| Jul-04 | 5813 | 4571 | 4131 | - | Dec-07 | 4215 | 2194 | 5597 | - | Dec-11 | 4455 | 1900 | 3800 | - |
| Aug-04 | 6016 | 4619 | 4158 | - | Jan-08 | 4203 | 2200 | 5600 | - | | | | | |
| Sep-04 | 5823 | 4625 | 4162 | - | Feb-08 | 4179 | 2200 | 5510 | - | | | | | |
| Oct-04 | 5905 | 4604 | 4165 | - | Mar-08 | 4203 | 2200 | 5413 | - | | | | | |
| Nov-04 | 6160 | 4955 | 4423 | - | Apr-08 | 4207 | 2200 | 5513 | - | | | | | |
| Dec-04 | 4889 | 4321 | 4295 | - | May-08 | 4052 | 2200 | 5426 | - | | | | | |
| Jan-05 | 5661 | 5139 | 5139 | - | Jun-08 | 3940 | 2190 | 5257 | - | | | | | |
| Feb-05 | 6036 | 5616 | 5616 | - | Jul-08 | 3400 | 2155 | 4423 | - | | | | | |
| Mar-05 | 6003 | 5650 | 5631 | - | Aug-08 | 3865 | 2200 | 5116 | - | | | | | |
| Apr-05 | 6243 | 5470 | 5687 | - | Sep-08 | 3857 | 2137 | 4850 | - | | | | | |
| May-05 | 5748 | 2900 | 5319 | - | Oct-08 | 3965 | 2161 | 4416 | - | | | | | |
| Jun-05 | 6689 | 1350 | 6145 | - | Nov-08 | 4523 | 2200 | 5223 | - | | | | | |
| Jul-05 | 6832 | 1350 | 6110 | - | Dec-08 | 4658 | 2200 | 5200 | - | | | | | |
| Aug-05 | 6976 | 1350 | 6073 | - | Jan-09 | 4210 | 2200 | 5035 | - | | | | | |
| Sep-05 | 6812 | 962 | 5923 | - | Feb-09 | 4014 | 2200 | 4882 | - | | | | | |
| Oct-05 | 6021 | 1535 | 5676 | - | Mar-09 | 4274 | 2200 | 5303 | - | | | | | |
| Nov-05 | 6325 | 1740 | 5468 | - | Apr-09 | 4253 | 2200 | 5400 | - | | | | | |
| Dec-05 | 6300 | 1832 | 5626 | - | May-09 | 3723 | 2168 | 4790 | - | | | | | |
| | | | | | Jun-09 | 3753 | 2287 | 4393 | - | | | | | |
| | | | | | Jul-09 | 3845 | 2284 | 4445 | - | | | | | |
| | | | | | Aug-09 | 3974 | 2200 | 4348 | - | | | | | |
| | | | | | Sep-09 | 4000 | 2200 | 4593 | - | | | | | |
| | | | | | Oct-09 | 4010 | 2200 | 4400 | - | | | | | |
| | | | | | Nov-09 | 4110 | 2200 | 4353 | - | | | | | |
| | | | | | Dec-09 | 4097 | 2200 | 4394 | - | | | | | |

Appendix C

East Routledge Unit No. 1 Injector Pattern Summary as of December 2011

[illegible]

Appendix D
Rates and VRR
Plots and Tables

Pattern: 00/04-11-009-25 Inj Set: E Routledge Unit #1

Oil Formation Vol. Factor : 1.05 m3/m3

Water Formation Vol Factor : 1.00 m3/m3

Water / Oil Ratio : 65.95 m3/m3

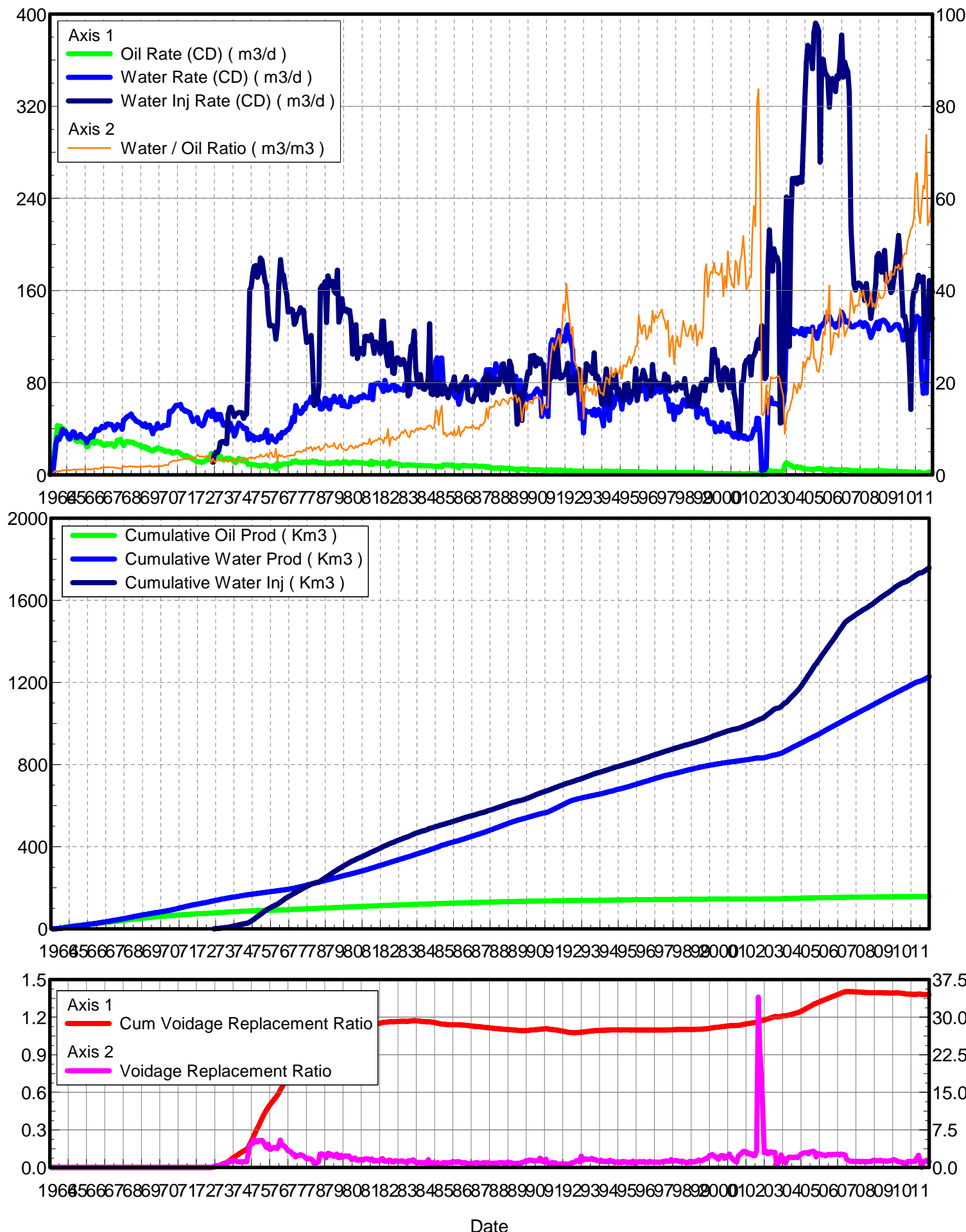
March 04, 2012

Operator: TUNDRA_OIL_&_GAS_LIMITED

Oil Rate (CD) : 2.04 m3/d

Water Rate (CD) : 134.74 m3/d

Water Inj Rate (CD) : 164.87 m3/d



| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1964 | 2.49 | 0.37 | 0.15 | | 0.08 | 0.01 | 0.00 | 0.000 | 0.000 |
| 2/29/1964 | 5.26 | 1.14 | 0.22 | | 0.23 | 0.04 | 0.00 | 0.000 | 0.000 |
| 3/31/1964 | 7.36 | 2.30 | 0.31 | | 0.46 | 0.12 | 0.00 | 0.000 | 0.000 |
| 4/30/1964 | 19.93 | 13.93 | 0.70 | | 1.06 | 0.53 | 0.00 | 0.000 | 0.000 |
| 5/31/1964 | 31.83 | 26.97 | 0.85 | | 2.04 | 1.37 | 0.00 | 0.000 | 0.000 |
| 6/30/1964 | 42.72 | 32.28 | 0.76 | | 3.32 | 2.34 | 0.00 | 0.000 | 0.000 |
| 7/31/1964 | 40.69 | 30.59 | 0.75 | | 4.59 | 3.29 | 0.00 | 0.000 | 0.000 |
| 8/31/1964 | 42.02 | 33.55 | 0.80 | | 5.89 | 4.33 | 0.00 | 0.000 | 0.000 |
| 9/30/1964 | 38.72 | 39.32 | 1.02 | | 7.05 | 5.51 | 0.00 | 0.000 | 0.000 |
| 10/31/1964 | 39.90 | 35.94 | 0.90 | | 8.29 | 6.62 | 0.00 | 0.000 | 0.000 |
| 11/30/1964 | 38.16 | 37.67 | 0.99 | | 9.43 | 7.75 | 0.00 | 0.000 | 0.000 |
| 12/31/1964 | 35.99 | 36.00 | 1.00 | | 10.55 | 8.87 | 0.00 | 0.000 | 0.000 |
| 1/31/1965 | 31.07 | 32.55 | 1.05 | | 11.51 | 9.87 | 0.00 | 0.000 | 0.000 |
| 2/28/1965 | 34.44 | 30.91 | 0.90 | | 12.47 | 10.74 | 0.00 | 0.000 | 0.000 |
| 3/31/1965 | 34.72 | 34.63 | 1.00 | | 13.55 | 11.81 | 0.00 | 0.000 | 0.000 |
| 4/30/1965 | 34.31 | 37.29 | 1.09 | | 14.58 | 12.93 | 0.00 | 0.000 | 0.000 |
| 5/31/1965 | 31.34 | 36.89 | 1.18 | | 15.55 | 14.08 | 0.00 | 0.000 | 0.000 |
| 6/30/1965 | 29.72 | 32.44 | 1.09 | | 16.44 | 15.05 | 0.00 | 0.000 | 0.000 |
| 7/31/1965 | 28.75 | 32.20 | 1.12 | | 17.33 | 16.05 | 0.00 | 0.000 | 0.000 |
| 8/31/1965 | 29.94 | 33.85 | 1.13 | | 18.26 | 17.10 | 0.00 | 0.000 | 0.000 |
| 9/30/1965 | 30.56 | 35.09 | 1.15 | | 19.18 | 18.15 | 0.00 | 0.000 | 0.000 |
| 10/31/1965 | 28.70 | 32.87 | 1.15 | | 20.07 | 19.17 | 0.00 | 0.000 | 0.000 |
| 11/30/1965 | 28.04 | 32.03 | 1.14 | | 20.91 | 20.13 | 0.00 | 0.000 | 0.000 |
| 12/31/1965 | 27.45 | 31.38 | 1.14 | | 21.76 | 21.10 | 0.00 | 0.000 | 0.000 |
| 1/31/1966 | 24.13 | 27.96 | 1.16 | | 22.51 | 21.97 | 0.00 | 0.000 | 0.000 |
| 2/28/1966 | 24.64 | 31.32 | 1.27 | | 23.20 | 22.85 | 0.00 | 0.000 | 0.000 |
| 3/31/1966 | 29.50 | 32.21 | 1.09 | | 24.11 | 23.84 | 0.00 | 0.000 | 0.000 |
| 4/30/1966 | 28.45 | 33.96 | 1.19 | | 24.97 | 24.86 | 0.00 | 0.000 | 0.000 |
| 5/31/1966 | 27.83 | 32.79 | 1.18 | | 25.83 | 25.88 | 0.00 | 0.000 | 0.000 |
| 6/30/1966 | 27.16 | 36.58 | 1.35 | | 26.64 | 26.98 | 0.00 | 0.000 | 0.000 |
| 7/31/1966 | 29.29 | 39.56 | 1.35 | | 27.55 | 28.20 | 0.00 | 0.000 | 0.000 |
| 8/31/1966 | 28.84 | 38.48 | 1.33 | | 28.45 | 29.40 | 0.00 | 0.000 | 0.000 |
| 9/30/1966 | 28.17 | 38.83 | 1.38 | | 29.29 | 30.56 | 0.00 | 0.000 | 0.000 |
| 10/31/1966 | 28.24 | 39.97 | 1.42 | | 30.17 | 31.80 | 0.00 | 0.000 | 0.000 |
| 11/30/1966 | 26.55 | 41.95 | 1.58 | | 30.96 | 33.06 | 0.00 | 0.000 | 0.000 |
| 12/31/1966 | 25.56 | 41.08 | 1.61 | | 31.76 | 34.33 | 0.00 | 0.000 | 0.000 |
| 1/31/1967 | 25.62 | 41.21 | 1.61 | | 32.55 | 35.61 | 0.00 | 0.000 | 0.000 |
| 2/28/1967 | 27.04 | 43.98 | 1.63 | | 33.31 | 36.84 | 0.00 | 0.000 | 0.000 |
| 3/31/1967 | 26.48 | 44.10 | 1.67 | | 34.13 | 38.21 | 0.00 | 0.000 | 0.000 |
| 4/30/1967 | 26.58 | 43.38 | 1.63 | | 34.93 | 39.51 | 0.00 | 0.000 | 0.000 |
| 5/31/1967 | 26.95 | 43.65 | 1.62 | | 35.76 | 40.86 | 0.00 | 0.000 | 0.000 |
| 6/30/1967 | 26.00 | 42.35 | 1.63 | | 36.54 | 42.13 | 0.00 | 0.000 | 0.000 |
| 7/31/1967 | 24.50 | 38.85 | 1.59 | | 37.30 | 43.34 | 0.00 | 0.000 | 0.000 |
| 8/31/1967 | 26.73 | 40.59 | 1.52 | | 38.13 | 44.60 | 0.00 | 0.000 | 0.000 |
| 9/30/1967 | 30.01 | 43.55 | 1.45 | | 39.03 | 45.90 | 0.00 | 0.000 | 0.000 |
| 10/31/1967 | 29.69 | 42.27 | 1.42 | | 39.95 | 47.21 | 0.00 | 0.000 | 0.000 |
| 11/30/1967 | 30.80 | 42.51 | 1.38 | | 40.87 | 48.49 | 0.00 | 0.000 | 0.000 |
| 12/31/1967 | 27.67 | 39.44 | 1.43 | | 41.73 | 49.71 | 0.00 | 0.000 | 0.000 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemnt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|------------------------------|
| 1/31/1968 | 25.27 | 47.54 | 1.88 | | 42.51 | 51.18 | 0.00 | 0.000 | 0.000 |
| 2/29/1968 | 27.68 | 48.36 | 1.75 | | 43.32 | 52.59 | 0.00 | 0.000 | 0.000 |
| 3/31/1968 | 28.80 | 50.06 | 1.74 | | 44.21 | 54.14 | 0.00 | 0.000 | 0.000 |
| 4/30/1968 | 28.84 | 50.73 | 1.76 | | 45.08 | 55.66 | 0.00 | 0.000 | 0.000 |
| 5/31/1968 | 28.13 | 51.81 | 1.84 | | 45.95 | 57.27 | 0.00 | 0.000 | 0.000 |
| 6/30/1968 | 28.52 | 52.67 | 1.85 | | 46.80 | 58.85 | 0.00 | 0.000 | 0.000 |
| 7/31/1968 | 28.29 | 49.65 | 1.75 | | 47.68 | 60.39 | 0.00 | 0.000 | 0.000 |
| 8/31/1968 | 26.94 | 48.57 | 1.80 | | 48.51 | 61.89 | 0.00 | 0.000 | 0.000 |
| 9/30/1968 | 26.89 | 46.56 | 1.73 | | 49.32 | 63.29 | 0.00 | 0.000 | 0.000 |
| 10/31/1968 | 25.90 | 46.10 | 1.78 | | 50.12 | 64.72 | 0.00 | 0.000 | 0.000 |
| 11/30/1968 | 25.66 | 45.64 | 1.78 | | 50.89 | 66.09 | 0.00 | 0.000 | 0.000 |
| 12/31/1968 | 25.79 | 44.48 | 1.72 | | 51.69 | 67.47 | 0.00 | 0.000 | 0.000 |
| 1/31/1969 | 23.89 | 43.13 | 1.80 | | 52.43 | 68.80 | 0.00 | 0.000 | 0.000 |
| 2/28/1969 | 23.79 | 42.15 | 1.77 | | 53.10 | 69.98 | 0.00 | 0.000 | 0.000 |
| 3/31/1969 | 24.41 | 44.32 | 1.82 | | 53.86 | 71.36 | 0.00 | 0.000 | 0.000 |
| 4/30/1969 | 22.49 | 41.37 | 1.84 | | 54.53 | 72.60 | 0.00 | 0.000 | 0.000 |
| 5/31/1969 | 23.03 | 42.37 | 1.84 | | 55.25 | 73.91 | 0.00 | 0.000 | 0.000 |
| 6/30/1969 | 21.51 | 42.99 | 2.00 | | 55.89 | 75.20 | 0.00 | 0.000 | 0.000 |
| 7/31/1969 | 21.18 | 39.37 | 1.86 | | 56.55 | 76.42 | 0.00 | 0.000 | 0.000 |
| 8/31/1969 | 20.55 | 35.51 | 1.73 | | 57.19 | 77.52 | 0.00 | 0.000 | 0.000 |
| 9/30/1969 | 22.20 | 40.52 | 1.83 | | 57.85 | 78.74 | 0.00 | 0.000 | 0.000 |
| 10/31/1969 | 21.92 | 39.63 | 1.81 | | 58.53 | 79.97 | 0.00 | 0.000 | 0.000 |
| 11/30/1969 | 23.38 | 44.36 | 1.90 | | 59.23 | 81.30 | 0.00 | 0.000 | 0.000 |
| 12/31/1969 | 22.86 | 41.38 | 1.81 | | 59.94 | 82.58 | 0.00 | 0.000 | 0.000 |
| 1/31/1970 | 22.44 | 40.52 | 1.81 | | 60.64 | 83.84 | 0.00 | 0.000 | 0.000 |
| 2/28/1970 | 21.75 | 40.90 | 1.88 | | 61.25 | 84.98 | 0.00 | 0.000 | 0.000 |
| 3/31/1970 | 21.56 | 42.68 | 1.98 | | 61.91 | 86.30 | 0.00 | 0.000 | 0.000 |
| 4/30/1970 | 20.22 | 42.91 | 2.12 | | 62.52 | 87.59 | 0.00 | 0.000 | 0.000 |
| 5/31/1970 | 20.35 | 42.93 | 2.11 | | 63.15 | 88.92 | 0.00 | 0.000 | 0.000 |
| 6/30/1970 | 20.63 | 43.28 | 2.10 | | 63.77 | 90.22 | 0.00 | 0.000 | 0.000 |
| 7/31/1970 | 20.45 | 55.02 | 2.69 | | 64.40 | 91.93 | 0.00 | 0.000 | 0.000 |
| 8/31/1970 | 19.34 | 54.63 | 2.83 | | 65.00 | 93.62 | 0.00 | 0.000 | 0.000 |
| 9/30/1970 | 18.71 | 56.02 | 2.99 | | 65.56 | 95.30 | 0.00 | 0.000 | 0.000 |
| 10/31/1970 | 19.15 | 58.14 | 3.04 | | 66.16 | 97.10 | 0.00 | 0.000 | 0.000 |
| 11/30/1970 | 19.89 | 60.19 | 3.03 | | 66.76 | 98.91 | 0.00 | 0.000 | 0.000 |
| 12/31/1970 | 19.84 | 60.44 | 3.05 | | 67.37 | 100.78 | 0.00 | 0.000 | 0.000 |
| 1/31/1971 | 18.94 | 60.01 | 3.17 | | 67.96 | 102.64 | 0.00 | 0.000 | 0.000 |
| 2/28/1971 | 18.46 | 61.06 | 3.31 | | 68.47 | 104.35 | 0.00 | 0.000 | 0.000 |
| 3/31/1971 | 17.40 | 57.23 | 3.29 | | 69.01 | 106.13 | 0.00 | 0.000 | 0.000 |
| 4/30/1971 | 16.56 | 56.70 | 3.42 | | 69.51 | 107.83 | 0.00 | 0.000 | 0.000 |
| 5/31/1971 | 16.24 | 55.18 | 3.40 | | 70.01 | 109.54 | 0.00 | 0.000 | 0.000 |
| 6/30/1971 | 16.69 | 55.37 | 3.32 | | 70.51 | 111.20 | 0.00 | 0.000 | 0.000 |
| 7/31/1971 | 15.75 | 54.41 | 3.45 | | 71.00 | 112.89 | 0.00 | 0.000 | 0.000 |
| 8/31/1971 | 15.15 | 53.87 | 3.56 | | 71.47 | 114.56 | 0.00 | 0.000 | 0.000 |
| 9/30/1971 | 14.48 | 50.16 | 3.46 | | 71.91 | 116.06 | 0.00 | 0.000 | 0.000 |
| 10/31/1971 | 13.55 | 46.21 | 3.41 | | 72.33 | 117.49 | 0.00 | 0.000 | 0.000 |
| 11/30/1971 | 12.93 | 48.08 | 3.72 | | 72.71 | 118.94 | 0.00 | 0.000 | 0.000 |
| 12/31/1971 | 12.12 | 47.88 | 3.95 | | 73.09 | 120.42 | 0.00 | 0.000 | 0.000 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemnt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|------------------------------|
| 1/31/1972 | 11.30 | 49.58 | 4.39 | | 73.44 | 121.96 | 0.00 | 0.000 | 0.000 |
| 2/29/1972 | 11.25 | 44.39 | 3.94 | | 73.77 | 123.24 | 0.00 | 0.000 | 0.000 |
| 3/31/1972 | 11.30 | 44.22 | 3.91 | | 74.12 | 124.61 | 0.00 | 0.000 | 0.000 |
| 4/30/1972 | 10.62 | 42.46 | 4.00 | | 74.44 | 125.89 | 0.00 | 0.000 | 0.000 |
| 5/31/1972 | 11.29 | 43.69 | 3.87 | | 74.79 | 127.24 | 0.00 | 0.000 | 0.000 |
| 6/30/1972 | 12.14 | 48.05 | 3.96 | | 75.15 | 128.68 | 0.00 | 0.000 | 0.000 |
| 7/31/1972 | 12.80 | 52.34 | 4.09 | | 75.55 | 130.31 | 0.00 | 0.000 | 0.000 |
| 8/31/1972 | 13.67 | 54.47 | 3.99 | | 75.97 | 132.00 | 0.00 | 0.000 | 0.000 |
| 9/30/1972 | 13.36 | 52.66 | 3.94 | | 76.37 | 133.57 | 0.00 | 0.000 | 0.000 |
| 10/31/1972 | 18.52 | 50.72 | 2.74 | | 76.95 | 135.15 | 0.00 | 0.000 | 0.000 |
| 11/30/1972 | 16.03 | 56.18 | 3.50 | 11.04 | 77.43 | 136.83 | 0.33 | 0.182 | 0.002 |
| 12/31/1972 | 17.81 | 51.56 | 2.89 | 17.68 | 77.98 | 138.43 | 0.88 | 0.312 | 0.005 |
| 1/31/1973 | 17.18 | 47.67 | 2.78 | 19.28 | 78.51 | 139.91 | 1.48 | 0.366 | 0.009 |
| 2/28/1973 | 15.81 | 52.55 | 3.32 | 19.15 | 78.95 | 141.38 | 2.01 | 0.335 | 0.012 |
| 3/31/1973 | 15.89 | 48.45 | 3.05 | 21.29 | 79.45 | 142.88 | 2.67 | 0.401 | 0.016 |
| 4/30/1973 | 16.25 | 52.39 | 3.22 | 28.11 | 79.93 | 144.45 | 3.52 | 0.492 | 0.021 |
| 5/31/1973 | 13.63 | 46.64 | 3.42 | 28.87 | 80.36 | 145.90 | 4.41 | 0.571 | 0.026 |
| 6/30/1973 | 12.99 | 43.14 | 3.32 | 28.78 | 80.75 | 147.19 | 5.28 | 0.614 | 0.031 |
| 7/31/1973 | 13.33 | 43.05 | 3.23 | 27.42 | 81.16 | 148.53 | 6.13 | 0.585 | 0.036 |
| 8/31/1973 | 14.45 | 45.34 | 3.14 | 26.94 | 81.61 | 149.93 | 6.96 | 0.544 | 0.040 |
| 9/30/1973 | 13.47 | 37.42 | 2.78 | 52.49 | 82.01 | 151.06 | 8.54 | 1.270 | 0.049 |
| 10/31/1973 | 14.38 | 45.00 | 3.13 | 58.15 | 82.46 | 152.45 | 10.34 | 1.183 | 0.059 |
| 11/30/1973 | 13.20 | 42.23 | 3.20 | 58.55 | 82.85 | 153.72 | 12.09 | 1.272 | 0.068 |
| 12/31/1973 | 12.94 | 40.17 | 3.10 | 54.09 | 83.25 | 154.96 | 13.77 | 1.232 | 0.077 |
| 1/31/1974 | 11.33 | 33.66 | 2.97 | 50.47 | 83.61 | 156.01 | 15.34 | 1.366 | 0.085 |
| 2/28/1974 | 10.68 | 36.35 | 3.40 | 52.75 | 83.90 | 157.03 | 16.81 | 1.337 | 0.093 |
| 3/31/1974 | 12.73 | 41.76 | 3.28 | 53.44 | 84.30 | 158.32 | 18.47 | 1.176 | 0.101 |
| 4/30/1974 | 14.14 | 44.85 | 3.17 | 54.03 | 84.72 | 159.67 | 20.09 | 1.104 | 0.109 |
| 5/31/1974 | 13.42 | 43.50 | 3.24 | 53.91 | 85.14 | 161.01 | 21.76 | 1.138 | 0.117 |
| 6/30/1974 | 12.15 | 42.27 | 3.48 | 53.69 | 85.50 | 162.28 | 23.37 | 1.173 | 0.125 |
| 7/31/1974 | 13.55 | 40.20 | 2.97 | 49.03 | 85.92 | 163.53 | 24.89 | 1.111 | 0.132 |
| 8/31/1974 | 11.51 | 40.52 | 3.52 | 51.42 | 86.28 | 164.78 | 26.49 | 1.173 | 0.140 |
| 9/30/1974 | 11.14 | 39.94 | 3.59 | 52.69 | 86.61 | 165.98 | 28.07 | 1.221 | 0.147 |
| 10/31/1974 | 9.08 | 30.62 | 3.37 | 93.87 | 86.90 | 166.93 | 30.98 | 2.823 | 0.161 |
| 11/30/1974 | 9.36 | 35.54 | 3.80 | 160.56 | 87.18 | 168.00 | 35.79 | 4.198 | 0.185 |
| 12/31/1974 | 8.99 | 31.71 | 3.53 | 162.96 | 87.46 | 168.98 | 40.85 | 4.749 | 0.210 |
| 1/31/1975 | 8.97 | 33.72 | 3.76 | 174.95 | 87.73 | 170.03 | 46.27 | 4.818 | 0.237 |
| 2/28/1975 | 8.64 | 29.94 | 3.47 | 181.09 | 87.98 | 170.86 | 51.34 | 5.582 | 0.262 |
| 3/31/1975 | 8.48 | 32.35 | 3.82 | 181.68 | 88.24 | 171.87 | 56.97 | 5.220 | 0.289 |
| 4/30/1975 | 8.05 | 31.27 | 3.89 | 171.38 | 88.48 | 172.81 | 62.11 | 5.101 | 0.313 |
| 5/31/1975 | 7.88 | 30.35 | 3.85 | 175.40 | 88.72 | 173.75 | 67.55 | 5.375 | 0.339 |
| 6/30/1975 | 7.46 | 33.01 | 4.43 | 188.16 | 88.95 | 174.74 | 73.20 | 5.350 | 0.365 |
| 7/31/1975 | 8.15 | 31.86 | 3.91 | 185.98 | 89.20 | 175.73 | 78.96 | 5.434 | 0.392 |
| 8/31/1975 | 8.16 | 32.58 | 3.99 | 176.48 | 89.45 | 176.74 | 84.43 | 5.051 | 0.417 |
| 9/30/1975 | 8.66 | 35.86 | 4.14 | 167.95 | 89.71 | 177.81 | 89.47 | 4.378 | 0.439 |
| 10/31/1975 | 8.48 | 38.77 | 4.57 | 164.22 | 89.98 | 179.01 | 94.56 | 3.984 | 0.461 |
| 11/30/1975 | 7.34 | 28.06 | 3.82 | 140.68 | 90.20 | 179.85 | 98.78 | 4.661 | 0.480 |
| 12/31/1975 | 7.21 | 33.28 | 4.61 | 129.57 | 90.42 | 180.89 | 102.80 | 3.664 | 0.497 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1976 | 6.90 | 33.53 | 4.86 | 129.41 | 90.63 | 181.93 | 106.81 | 3.642 | 0.513 |
| 2/29/1976 | 7.81 | 30.63 | 3.92 | 129.46 | 90.86 | 182.81 | 110.56 | 3.936 | 0.529 |
| 3/31/1976 | 7.87 | 30.10 | 3.83 | 128.77 | 91.10 | 183.75 | 114.56 | 3.977 | 0.545 |
| 4/30/1976 | 5.07 | 28.57 | 5.64 | 117.79 | 91.26 | 184.60 | 118.09 | 3.921 | 0.560 |
| 5/31/1976 | 10.09 | 31.51 | 3.12 | 129.73 | 91.57 | 185.58 | 122.11 | 3.768 | 0.576 |
| 6/30/1976 | 7.81 | 34.42 | 4.41 | 165.66 | 91.80 | 186.61 | 127.08 | 4.517 | 0.596 |
| 7/31/1976 | 7.91 | 31.97 | 4.04 | 186.81 | 92.05 | 187.61 | 132.87 | 5.453 | 0.620 |
| 8/31/1976 | 8.81 | 36.80 | 4.17 | 174.73 | 92.32 | 188.75 | 138.29 | 4.440 | 0.642 |
| 9/30/1976 | 9.33 | 36.19 | 3.88 | 173.14 | 92.60 | 189.83 | 143.48 | 4.453 | 0.662 |
| 10/31/1976 | 9.59 | 36.60 | 3.82 | 163.44 | 92.90 | 190.97 | 148.55 | 4.151 | 0.682 |
| 11/30/1976 | 9.62 | 38.63 | 4.01 | 156.29 | 93.19 | 192.13 | 153.24 | 3.774 | 0.699 |
| 12/31/1976 | 9.41 | 39.18 | 4.16 | 141.34 | 93.48 | 193.34 | 157.62 | 3.373 | 0.715 |
| 1/31/1977 | 9.95 | 40.86 | 4.11 | 141.82 | 93.79 | 194.61 | 162.02 | 3.242 | 0.731 |
| 2/28/1977 | 10.26 | 43.79 | 4.27 | 143.88 | 94.08 | 195.83 | 166.05 | 3.077 | 0.744 |
| 3/31/1977 | 11.76 | 49.92 | 4.24 | 142.77 | 94.44 | 197.38 | 170.47 | 2.677 | 0.759 |
| 4/30/1977 | 11.10 | 46.21 | 4.17 | 130.53 | 94.77 | 198.77 | 174.39 | 2.641 | 0.771 |
| 5/31/1977 | 12.29 | 60.12 | 4.89 | 132.91 | 95.15 | 200.63 | 178.51 | 2.087 | 0.782 |
| 6/30/1977 | 11.20 | 55.99 | 5.00 | 139.59 | 95.49 | 202.31 | 182.70 | 2.357 | 0.795 |
| 7/31/1977 | 10.80 | 55.22 | 5.11 | 140.07 | 95.82 | 204.02 | 187.04 | 2.401 | 0.807 |
| 8/31/1977 | 10.68 | 53.32 | 4.99 | 145.00 | 96.16 | 205.67 | 191.53 | 2.571 | 0.820 |
| 9/30/1977 | 11.00 | 54.30 | 4.94 | 142.77 | 96.49 | 207.30 | 195.82 | 2.484 | 0.833 |
| 10/31/1977 | 10.83 | 58.45 | 5.40 | 142.93 | 96.82 | 209.12 | 200.25 | 2.321 | 0.844 |
| 11/30/1977 | 11.01 | 57.09 | 5.19 | 127.99 | 97.15 | 210.83 | 204.09 | 2.124 | 0.854 |
| 12/31/1977 | 10.55 | 62.14 | 5.89 | 114.95 | 97.48 | 212.75 | 207.65 | 1.763 | 0.862 |
| 1/31/1978 | 11.05 | 62.42 | 5.65 | 116.23 | 97.82 | 214.69 | 211.25 | 1.771 | 0.869 |
| 2/28/1978 | 10.82 | 63.44 | 5.86 | 117.65 | 98.12 | 216.47 | 214.55 | 1.767 | 0.876 |
| 3/31/1978 | 11.13 | 67.50 | 6.06 | 120.99 | 98.47 | 218.56 | 218.30 | 1.711 | 0.884 |
| 4/30/1978 | 11.97 | 62.24 | 5.20 | 97.78 | 98.83 | 220.43 | 221.23 | 1.488 | 0.888 |
| 5/31/1978 | 10.90 | 64.65 | 5.93 | 60.26 | 99.17 | 222.43 | 223.10 | 0.889 | 0.888 |
| 6/30/1978 | 11.51 | 64.14 | 5.57 | 61.69 | 99.51 | 224.35 | 224.95 | 0.914 | 0.889 |
| 7/31/1978 | 11.28 | 67.07 | 5.95 | 64.71 | 99.86 | 226.43 | 226.96 | 0.920 | 0.889 |
| 8/31/1978 | 10.26 | 63.50 | 6.19 | 77.43 | 100.18 | 228.40 | 229.36 | 1.165 | 0.891 |
| 9/30/1978 | 10.88 | 57.15 | 5.25 | 161.69 | 100.51 | 230.12 | 234.21 | 2.682 | 0.904 |
| 10/31/1978 | 10.21 | 57.10 | 5.59 | 164.08 | 100.82 | 231.89 | 239.29 | 2.732 | 0.917 |
| 11/30/1978 | 10.24 | 59.65 | 5.82 | 163.69 | 101.13 | 233.68 | 244.20 | 2.614 | 0.929 |
| 12/31/1978 | 10.19 | 66.42 | 6.52 | 167.66 | 101.45 | 235.74 | 249.40 | 2.417 | 0.941 |
| 1/31/1979 | 9.91 | 65.49 | 6.61 | 132.19 | 101.75 | 237.77 | 253.50 | 1.934 | 0.949 |
| 2/28/1979 | 9.70 | 58.95 | 6.08 | 172.64 | 102.02 | 239.42 | 258.33 | 2.795 | 0.961 |
| 3/31/1979 | 9.45 | 57.16 | 6.05 | 167.72 | 102.32 | 241.19 | 263.53 | 2.800 | 0.973 |
| 4/30/1979 | 10.39 | 64.83 | 6.24 | 164.07 | 102.63 | 243.13 | 268.45 | 2.419 | 0.984 |
| 5/31/1979 | 10.10 | 63.26 | 6.26 | 167.89 | 102.94 | 245.09 | 273.66 | 2.537 | 0.996 |
| 6/30/1979 | 9.93 | 68.23 | 6.87 | 159.46 | 103.24 | 247.14 | 278.44 | 2.243 | 1.005 |
| 7/31/1979 | 10.89 | 64.41 | 5.92 | 157.56 | 103.58 | 249.14 | 283.33 | 2.332 | 1.015 |
| 8/31/1979 | 11.28 | 63.10 | 5.60 | 177.65 | 103.93 | 251.09 | 288.83 | 2.677 | 1.027 |
| 9/30/1979 | 10.07 | 64.19 | 6.37 | 132.59 | 104.23 | 253.02 | 292.81 | 1.976 | 1.034 |
| 10/31/1979 | 10.10 | 67.91 | 6.72 | 138.80 | 104.54 | 255.12 | 297.11 | 1.959 | 1.041 |
| 11/30/1979 | 10.23 | 60.06 | 5.87 | 152.95 | 104.85 | 256.93 | 301.70 | 2.427 | 1.050 |
| 12/31/1979 | 11.49 | 63.90 | 5.56 | 142.45 | 105.21 | 258.91 | 306.12 | 2.119 | 1.058 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1980 | 11.05 | 59.76 | 5.41 | 142.45 | 105.55 | 260.76 | 310.54 | 2.263 | 1.066 |
| 2/29/1980 | 11.21 | 59.39 | 5.30 | 143.72 | 105.87 | 262.48 | 314.70 | 2.295 | 1.074 |
| 3/31/1980 | 10.34 | 58.93 | 5.70 | 141.02 | 106.19 | 264.31 | 319.07 | 2.277 | 1.082 |
| 4/30/1980 | 9.60 | 59.56 | 6.21 | 142.75 | 106.48 | 266.10 | 323.36 | 2.290 | 1.089 |
| 5/31/1980 | 10.61 | 67.34 | 6.35 | 132.12 | 106.81 | 268.18 | 327.45 | 1.876 | 1.095 |
| 6/30/1980 | 10.98 | 65.37 | 5.95 | 104.77 | 107.14 | 270.14 | 330.60 | 1.529 | 1.098 |
| 7/31/1980 | 11.17 | 63.55 | 5.69 | 122.26 | 107.49 | 272.11 | 334.39 | 1.831 | 1.103 |
| 8/31/1980 | 10.46 | 65.78 | 6.29 | 130.21 | 107.81 | 274.15 | 338.42 | 1.892 | 1.108 |
| 9/30/1980 | 10.84 | 64.10 | 5.91 | 100.96 | 108.14 | 276.08 | 341.45 | 1.502 | 1.111 |
| 10/31/1980 | 10.61 | 67.28 | 6.34 | 106.05 | 108.46 | 278.16 | 344.74 | 1.508 | 1.114 |
| 11/30/1980 | 10.30 | 67.70 | 6.57 | 109.70 | 108.77 | 280.19 | 348.03 | 1.552 | 1.117 |
| 12/31/1980 | 10.51 | 66.86 | 6.36 | 108.59 | 109.10 | 282.27 | 351.40 | 1.553 | 1.120 |
| 1/31/1981 | 10.06 | 69.26 | 6.89 | 104.77 | 109.41 | 284.41 | 354.64 | 1.452 | 1.122 |
| 2/28/1981 | 10.00 | 67.99 | 6.80 | 120.04 | 109.69 | 286.32 | 358.00 | 1.694 | 1.126 |
| 3/31/1981 | 9.99 | 67.15 | 6.72 | 120.19 | 110.00 | 288.40 | 361.73 | 1.716 | 1.130 |
| 4/30/1981 | 9.90 | 66.72 | 6.74 | 116.70 | 110.30 | 290.40 | 365.23 | 1.677 | 1.133 |
| 5/31/1981 | 8.62 | 67.31 | 7.81 | 116.38 | 110.56 | 292.49 | 368.84 | 1.667 | 1.137 |
| 6/30/1981 | 11.87 | 77.78 | 6.55 | 121.31 | 110.92 | 294.82 | 372.48 | 1.494 | 1.139 |
| 7/31/1981 | 9.08 | 65.32 | 7.19 | 113.68 | 111.20 | 296.85 | 376.00 | 1.673 | 1.143 |
| 8/31/1981 | 10.82 | 78.52 | 7.25 | 105.41 | 111.54 | 299.28 | 379.27 | 1.291 | 1.144 |
| 9/30/1981 | 10.49 | 78.69 | 7.50 | 115.26 | 111.85 | 301.64 | 382.73 | 1.410 | 1.146 |
| 10/31/1981 | 10.58 | 79.21 | 7.49 | 113.20 | 112.18 | 304.10 | 386.24 | 1.376 | 1.148 |
| 11/30/1981 | 9.98 | 79.46 | 7.96 | 110.02 | 112.48 | 306.48 | 389.54 | 1.336 | 1.149 |
| 12/31/1981 | 10.13 | 77.62 | 7.66 | 105.41 | 112.79 | 308.89 | 392.81 | 1.309 | 1.150 |
| 1/31/1982 | 9.82 | 75.07 | 7.65 | 133.23 | 113.10 | 311.21 | 396.94 | 1.710 | 1.154 |
| 2/28/1982 | 10.64 | 72.36 | 6.80 | 133.39 | 113.40 | 313.24 | 400.67 | 1.768 | 1.158 |
| 3/31/1982 | 10.12 | 81.98 | 8.10 | 109.86 | 113.71 | 315.78 | 404.08 | 1.294 | 1.159 |
| 4/30/1982 | 9.75 | 76.75 | 7.87 | 102.55 | 114.00 | 318.08 | 407.15 | 1.289 | 1.160 |
| 5/31/1982 | 7.39 | 73.31 | 9.93 | 94.75 | 114.23 | 320.36 | 410.09 | 1.256 | 1.160 |
| 6/30/1982 | 11.64 | 74.20 | 6.37 | 113.84 | 114.58 | 322.58 | 413.51 | 1.468 | 1.162 |
| 7/31/1982 | 9.75 | 76.99 | 7.89 | 114.31 | 114.88 | 324.97 | 417.05 | 1.432 | 1.164 |
| 8/31/1982 | 9.45 | 77.70 | 8.22 | 88.71 | 115.18 | 327.38 | 419.80 | 1.103 | 1.164 |
| 9/30/1982 | 10.13 | 77.99 | 7.70 | 87.92 | 115.48 | 329.72 | 422.44 | 1.086 | 1.163 |
| 10/31/1982 | 9.64 | 72.80 | 7.55 | 100.48 | 115.78 | 331.97 | 425.55 | 1.329 | 1.164 |
| 11/30/1982 | 9.39 | 76.47 | 8.15 | 101.59 | 116.06 | 334.27 | 428.60 | 1.283 | 1.165 |
| 12/31/1982 | 9.41 | 75.19 | 7.99 | 100.64 | 116.35 | 336.60 | 431.72 | 1.292 | 1.166 |
| 1/31/1983 | 8.44 | 73.87 | 8.76 | 95.71 | 116.61 | 338.89 | 434.69 | 1.254 | 1.167 |
| 2/28/1983 | 7.96 | 74.26 | 9.33 | 98.25 | 116.84 | 340.97 | 437.44 | 1.283 | 1.167 |
| 3/31/1983 | 8.12 | 73.38 | 9.04 | 100.00 | 117.09 | 343.24 | 440.54 | 1.321 | 1.168 |
| 4/30/1983 | 8.06 | 78.86 | 9.78 | 95.71 | 117.33 | 345.61 | 443.41 | 1.179 | 1.168 |
| 5/31/1983 | 8.58 | 79.12 | 9.22 | 89.99 | 117.60 | 348.06 | 446.20 | 1.103 | 1.168 |
| 6/30/1983 | 8.51 | 71.17 | 8.36 | 68.52 | 117.85 | 350.20 | 448.25 | 0.931 | 1.166 |
| 7/31/1983 | 8.58 | 69.86 | 8.14 | 97.94 | 118.12 | 352.36 | 451.29 | 1.354 | 1.168 |
| 8/31/1983 | 8.33 | 79.66 | 9.56 | 111.93 | 118.38 | 354.83 | 454.76 | 1.364 | 1.169 |
| 9/30/1983 | 8.30 | 78.58 | 9.47 | 111.29 | 118.62 | 357.19 | 458.10 | 1.374 | 1.170 |
| 10/31/1983 | 8.50 | 78.84 | 9.27 | 124.81 | 118.89 | 359.63 | 461.97 | 1.535 | 1.172 |
| 11/30/1983 | 8.01 | 78.87 | 9.85 | 93.01 | 119.13 | 362.00 | 464.76 | 1.146 | 1.172 |
| 12/31/1983 | 8.00 | 81.23 | 10.15 | 79.81 | 119.38 | 364.52 | 467.23 | 0.955 | 1.171 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1984 | 8.04 | 78.33 | 9.74 | 76.31 | 119.63 | 366.94 | 469.60 | 0.946 | 1.169 |
| 2/29/1984 | 7.94 | 81.33 | 10.24 | 86.97 | 119.86 | 369.30 | 472.12 | 1.040 | 1.169 |
| 3/31/1984 | 7.89 | 77.82 | 9.86 | 76.47 | 120.10 | 371.72 | 474.49 | 0.955 | 1.167 |
| 4/30/1984 | 7.90 | 78.41 | 9.93 | 74.41 | 120.34 | 374.07 | 476.72 | 0.922 | 1.166 |
| 5/31/1984 | 7.72 | 75.55 | 9.78 | 74.25 | 120.58 | 376.41 | 479.02 | 0.954 | 1.165 |
| 6/30/1984 | 7.53 | 76.39 | 10.14 | 78.06 | 120.80 | 378.70 | 481.37 | 0.994 | 1.164 |
| 7/31/1984 | 7.81 | 82.88 | 10.61 | 76.63 | 121.05 | 381.27 | 483.74 | 0.900 | 1.162 |
| 8/31/1984 | 7.57 | 81.19 | 10.73 | 131.12 | 121.28 | 383.79 | 487.81 | 1.573 | 1.165 |
| 9/30/1984 | 7.75 | 81.38 | 10.50 | 70.43 | 121.51 | 386.23 | 489.92 | 0.842 | 1.163 |
| 10/31/1984 | 7.63 | 76.03 | 9.97 | 69.64 | 121.75 | 388.59 | 492.08 | 0.890 | 1.161 |
| 11/30/1984 | 7.43 | 76.47 | 10.29 | 74.41 | 121.97 | 390.88 | 494.31 | 0.946 | 1.160 |
| 12/31/1984 | 6.99 | 98.74 | 14.13 | 79.81 | 122.19 | 393.94 | 496.79 | 0.792 | 1.157 |
| 1/31/1985 | 7.40 | 101.55 | 13.73 | 69.00 | 122.42 | 397.09 | 498.92 | 0.665 | 1.154 |
| 2/28/1985 | 7.34 | 79.25 | 10.80 | 79.97 | 122.62 | 399.31 | 501.16 | 0.983 | 1.153 |
| 3/31/1985 | 7.40 | 100.99 | 13.64 | 78.38 | 122.85 | 402.44 | 503.59 | 0.760 | 1.150 |
| 4/30/1985 | 6.76 | 101.37 | 15.00 | 69.95 | 123.06 | 405.48 | 505.69 | 0.677 | 1.147 |
| 5/31/1985 | 8.73 | 77.00 | 8.82 | 70.59 | 123.33 | 407.87 | 507.88 | 0.888 | 1.145 |
| 6/30/1985 | 8.07 | 73.90 | 9.16 | 76.79 | 123.57 | 410.08 | 510.18 | 1.007 | 1.144 |
| 7/31/1985 | 8.64 | 71.97 | 8.33 | 72.02 | 123.84 | 412.31 | 512.42 | 0.967 | 1.143 |
| 8/31/1985 | 8.40 | 73.02 | 8.70 | 66.93 | 124.10 | 414.58 | 514.49 | 0.887 | 1.142 |
| 9/30/1985 | 8.23 | 72.46 | 8.81 | 71.54 | 124.34 | 416.75 | 516.64 | 0.956 | 1.141 |
| 10/31/1985 | 8.01 | 74.03 | 9.24 | 77.43 | 124.59 | 419.05 | 519.04 | 1.014 | 1.141 |
| 11/30/1985 | 8.78 | 75.53 | 8.60 | 78.54 | 124.85 | 421.31 | 521.39 | 1.006 | 1.140 |
| 12/31/1985 | 7.11 | 68.67 | 9.66 | 84.90 | 125.07 | 423.44 | 524.03 | 1.200 | 1.140 |
| 1/31/1986 | 7.82 | 67.19 | 8.60 | 74.25 | 125.32 | 425.52 | 526.33 | 1.069 | 1.140 |
| 2/28/1986 | 7.79 | 68.48 | 8.79 | 74.74 | 125.54 | 427.44 | 528.42 | 1.057 | 1.139 |
| 3/31/1986 | 5.84 | 61.21 | 10.49 | 71.87 | 125.72 | 429.34 | 530.65 | 1.143 | 1.139 |
| 4/30/1986 | 7.80 | 65.23 | 8.36 | 77.28 | 125.95 | 431.30 | 532.97 | 1.145 | 1.139 |
| 5/31/1986 | 7.87 | 73.36 | 9.32 | 77.75 | 126.19 | 433.57 | 535.38 | 1.028 | 1.139 |
| 6/30/1986 | 8.23 | 77.55 | 9.42 | 80.14 | 126.44 | 435.90 | 537.78 | 1.003 | 1.138 |
| 7/31/1986 | 7.95 | 81.54 | 10.26 | 81.41 | 126.69 | 438.42 | 540.30 | 0.971 | 1.137 |
| 8/31/1986 | 7.96 | 82.56 | 10.37 | 85.23 | 126.93 | 440.98 | 542.95 | 1.004 | 1.137 |
| 9/30/1986 | 7.75 | 79.00 | 10.19 | 65.83 | 127.17 | 443.35 | 544.92 | 0.810 | 1.135 |
| 10/31/1986 | 7.50 | 77.38 | 10.32 | 64.87 | 127.40 | 445.75 | 546.93 | 0.815 | 1.133 |
| 11/30/1986 | 7.71 | 78.08 | 10.12 | 64.56 | 127.63 | 448.10 | 548.87 | 0.804 | 1.132 |
| 12/31/1986 | 7.50 | 81.50 | 10.86 | 63.44 | 127.86 | 450.62 | 550.84 | 0.758 | 1.130 |
| 1/31/1987 | 7.89 | 80.90 | 10.26 | 68.21 | 128.11 | 453.13 | 552.95 | 0.820 | 1.128 |
| 2/28/1987 | 7.62 | 76.02 | 9.97 | 69.60 | 128.32 | 455.26 | 554.90 | 0.890 | 1.127 |
| 3/31/1987 | 7.65 | 78.40 | 10.24 | 78.34 | 128.56 | 457.69 | 557.33 | 0.972 | 1.126 |
| 4/30/1987 | 7.10 | 69.73 | 9.82 | 72.46 | 128.77 | 459.78 | 559.50 | 1.009 | 1.126 |
| 5/31/1987 | 7.21 | 78.58 | 10.89 | 68.81 | 129.00 | 462.22 | 561.64 | 0.853 | 1.124 |
| 6/30/1987 | 7.36 | 78.55 | 10.67 | 65.15 | 129.22 | 464.57 | 563.59 | 0.808 | 1.123 |
| 7/31/1987 | 7.45 | 82.90 | 11.13 | 69.60 | 129.45 | 467.14 | 565.75 | 0.818 | 1.121 |
| 8/31/1987 | 7.05 | 81.42 | 11.55 | 84.70 | 129.67 | 469.67 | 568.37 | 1.015 | 1.121 |
| 9/30/1987 | 6.32 | 91.26 | 14.43 | 64.99 | 129.86 | 472.40 | 570.32 | 0.698 | 1.118 |
| 10/31/1987 | 7.17 | 87.91 | 12.26 | 87.72 | 130.08 | 475.13 | 573.04 | 0.975 | 1.118 |
| 11/30/1987 | 6.21 | 91.42 | 14.71 | 83.59 | 130.26 | 477.87 | 575.55 | 0.897 | 1.116 |
| 12/31/1987 | 6.25 | 90.97 | 14.55 | 82.04 | 130.46 | 480.69 | 578.09 | 0.884 | 1.115 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1988 | 5.85 | 86.76 | 14.84 | 71.35 | 130.64 | 483.38 | 580.30 | 0.807 | 1.113 |
| 2/29/1988 | 5.71 | 84.42 | 14.78 | 75.32 | 130.80 | 485.83 | 582.49 | 0.875 | 1.112 |
| 3/31/1988 | 5.99 | 96.40 | 16.11 | 82.95 | 130.99 | 488.82 | 585.06 | 0.845 | 1.111 |
| 4/30/1988 | 5.86 | 92.99 | 15.87 | 82.95 | 131.17 | 491.61 | 587.55 | 0.876 | 1.110 |
| 5/31/1988 | 5.89 | 89.13 | 15.14 | 78.34 | 131.35 | 494.37 | 589.98 | 0.862 | 1.108 |
| 6/30/1988 | 5.99 | 90.58 | 15.13 | 86.29 | 131.53 | 497.09 | 592.57 | 0.935 | 1.107 |
| 7/31/1988 | 5.88 | 95.61 | 16.26 | 91.69 | 131.71 | 500.05 | 595.41 | 0.942 | 1.106 |
| 8/31/1988 | 5.75 | 94.68 | 16.47 | 96.30 | 131.89 | 502.99 | 598.39 | 1.000 | 1.106 |
| 9/30/1988 | 5.66 | 91.37 | 16.14 | 80.57 | 132.06 | 505.73 | 600.81 | 0.866 | 1.105 |
| 10/31/1988 | 5.44 | 86.61 | 15.94 | 80.09 | 132.23 | 508.41 | 603.29 | 0.908 | 1.104 |
| 11/30/1988 | 5.79 | 88.64 | 15.30 | 72.46 | 132.40 | 511.07 | 605.47 | 0.802 | 1.102 |
| 12/31/1988 | 5.66 | 93.71 | 16.55 | 98.68 | 132.58 | 513.98 | 608.53 | 1.035 | 1.102 |
| 1/31/1989 | 5.45 | 91.28 | 16.76 | 94.23 | 132.75 | 516.81 | 611.45 | 1.015 | 1.101 |
| 2/28/1989 | 5.29 | 86.39 | 16.32 | 82.63 | 132.89 | 519.23 | 613.76 | 0.940 | 1.101 |
| 3/31/1989 | 4.91 | 84.53 | 17.20 | 74.53 | 133.05 | 521.85 | 616.07 | 0.867 | 1.099 |
| 4/30/1989 | 4.93 | 85.51 | 17.33 | 67.69 | 133.19 | 524.41 | 618.10 | 0.779 | 1.098 |
| 5/31/1989 | 3.74 | 58.76 | 15.73 | 44.02 | 133.31 | 526.23 | 619.47 | 0.736 | 1.097 |
| 6/30/1989 | 4.66 | 78.03 | 16.74 | 70.24 | 133.45 | 528.57 | 621.57 | 0.885 | 1.096 |
| 7/31/1989 | 5.17 | 81.91 | 15.84 | 64.52 | 133.61 | 531.11 | 623.57 | 0.774 | 1.094 |
| 8/31/1989 | 5.32 | 61.95 | 11.65 | 47.20 | 133.77 | 533.03 | 625.04 | 0.743 | 1.093 |
| 9/30/1989 | 4.98 | 70.39 | 14.14 | 71.22 | 133.92 | 535.15 | 627.17 | 0.992 | 1.093 |
| 10/31/1989 | 4.55 | 70.50 | 15.50 | 73.93 | 134.06 | 537.33 | 629.47 | 1.029 | 1.093 |
| 11/30/1989 | 4.89 | 68.30 | 13.97 | 82.03 | 134.21 | 539.38 | 631.93 | 1.177 | 1.093 |
| 12/31/1989 | 4.17 | 65.17 | 15.64 | 89.51 | 134.34 | 541.40 | 634.70 | 1.349 | 1.094 |
| 1/31/1990 | 4.23 | 67.97 | 16.08 | 88.24 | 134.47 | 543.51 | 637.44 | 1.275 | 1.095 |
| 2/28/1990 | 4.35 | 68.38 | 15.72 | 103.18 | 134.59 | 545.42 | 640.33 | 1.482 | 1.096 |
| 3/31/1990 | 4.33 | 66.87 | 15.44 | 101.11 | 134.73 | 547.50 | 643.46 | 1.484 | 1.097 |
| 4/30/1990 | 4.19 | 70.49 | 16.83 | 103.65 | 134.85 | 549.61 | 646.57 | 1.446 | 1.098 |
| 5/31/1990 | 4.30 | 72.79 | 16.91 | 94.43 | 134.99 | 551.87 | 649.50 | 1.275 | 1.099 |
| 6/30/1990 | 4.46 | 74.62 | 16.71 | 101.43 | 135.12 | 554.11 | 652.54 | 1.336 | 1.100 |
| 7/31/1990 | 4.25 | 71.68 | 16.85 | 96.50 | 135.25 | 556.33 | 655.53 | 1.323 | 1.101 |
| 8/31/1990 | 4.39 | 71.91 | 16.39 | 100.16 | 135.39 | 558.56 | 658.64 | 1.369 | 1.102 |
| 9/30/1990 | 3.89 | 50.73 | 13.03 | 96.18 | 135.51 | 560.08 | 661.52 | 1.855 | 1.104 |
| 10/31/1990 | 3.85 | 58.74 | 15.24 | 95.86 | 135.62 | 561.90 | 664.49 | 1.602 | 1.105 |
| 11/30/1990 | 3.88 | 58.72 | 15.11 | 70.27 | 135.74 | 563.66 | 666.60 | 1.174 | 1.106 |
| 12/31/1990 | 3.72 | 54.00 | 14.50 | 77.58 | 135.86 | 565.34 | 669.01 | 1.409 | 1.106 |
| 1/31/1991 | 3.46 | 50.59 | 14.64 | 85.37 | 135.96 | 566.90 | 671.65 | 1.655 | 1.108 |
| 2/28/1991 | 4.01 | 90.57 | 22.58 | 82.04 | 136.08 | 569.44 | 673.95 | 0.894 | 1.107 |
| 3/31/1991 | 4.38 | 113.51 | 25.93 | 84.26 | 136.21 | 572.96 | 676.56 | 0.734 | 1.105 |
| 4/30/1991 | 4.11 | 117.31 | 28.54 | 87.60 | 136.34 | 576.48 | 679.19 | 0.739 | 1.103 |
| 5/31/1991 | 4.05 | 109.64 | 27.05 | 110.49 | 136.46 | 579.88 | 682.62 | 0.997 | 1.102 |
| 6/30/1991 | 4.03 | 113.26 | 28.09 | 85.05 | 136.58 | 583.27 | 685.17 | 0.743 | 1.100 |
| 7/31/1991 | 4.00 | 117.52 | 29.36 | 112.88 | 136.71 | 586.92 | 688.67 | 0.951 | 1.099 |
| 8/31/1991 | 4.10 | 125.17 | 30.53 | 91.41 | 136.83 | 590.80 | 691.50 | 0.723 | 1.097 |
| 9/30/1991 | 4.16 | 115.06 | 27.68 | 83.94 | 136.96 | 594.25 | 694.02 | 0.722 | 1.095 |
| 10/31/1991 | 3.80 | 119.43 | 31.46 | 84.42 | 137.08 | 597.95 | 696.64 | 0.700 | 1.093 |
| 11/30/1991 | 3.24 | 119.75 | 37.00 | 86.49 | 137.17 | 601.54 | 699.23 | 0.717 | 1.090 |
| 12/31/1991 | 3.27 | 116.18 | 35.52 | 87.12 | 137.27 | 605.15 | 701.93 | 0.744 | 1.089 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1992 | 3.06 | 126.75 | 41.43 | 90.94 | 137.37 | 609.07 | 704.75 | 0.712 | 1.086 |
| 2/29/1992 | 3.49 | 130.11 | 37.28 | 96.66 | 137.47 | 612.85 | 707.55 | 0.737 | 1.084 |
| 3/31/1992 | 3.52 | 119.10 | 33.86 | 70.91 | 137.58 | 616.54 | 709.75 | 0.590 | 1.081 |
| 4/30/1992 | 3.77 | 115.43 | 30.63 | 71.22 | 137.69 | 620.00 | 711.89 | 0.611 | 1.079 |
| 5/31/1992 | 3.37 | 108.15 | 32.08 | 84.42 | 137.80 | 623.36 | 714.51 | 0.774 | 1.077 |
| 6/30/1992 | 3.06 | 75.88 | 24.81 | 73.61 | 137.89 | 625.63 | 716.71 | 0.959 | 1.077 |
| 7/31/1992 | 3.27 | 78.39 | 24.00 | 79.65 | 137.99 | 628.06 | 719.18 | 1.004 | 1.077 |
| 8/31/1992 | 3.25 | 75.55 | 23.26 | 84.10 | 138.09 | 630.40 | 721.79 | 1.100 | 1.077 |
| 9/30/1992 | 3.17 | 69.21 | 21.84 | 91.57 | 138.19 | 632.48 | 724.54 | 1.306 | 1.077 |
| 10/31/1992 | 3.05 | 48.82 | 15.99 | 70.91 | 138.28 | 633.99 | 726.74 | 1.427 | 1.078 |
| 11/30/1992 | 3.08 | 70.99 | 23.04 | 80.13 | 138.37 | 636.12 | 729.14 | 1.115 | 1.078 |
| 12/31/1992 | 2.99 | 36.43 | 12.17 | 84.10 | 138.47 | 637.25 | 731.75 | 2.255 | 1.080 |
| 1/31/1993 | 3.17 | 56.22 | 17.73 | 80.45 | 138.56 | 639.00 | 734.24 | 1.408 | 1.081 |
| 2/28/1993 | 2.81 | 54.94 | 19.58 | 96.34 | 138.64 | 640.53 | 736.94 | 1.728 | 1.083 |
| 3/31/1993 | 2.90 | 54.60 | 18.82 | 94.59 | 138.73 | 642.23 | 739.87 | 1.706 | 1.084 |
| 4/30/1993 | 3.01 | 54.65 | 18.16 | 91.41 | 138.82 | 643.87 | 742.61 | 1.647 | 1.086 |
| 5/31/1993 | 2.94 | 55.09 | 18.72 | 90.14 | 138.91 | 645.57 | 745.41 | 1.611 | 1.087 |
| 6/30/1993 | 2.98 | 52.02 | 17.44 | 88.08 | 139.00 | 647.13 | 748.05 | 1.665 | 1.088 |
| 7/31/1993 | 2.90 | 56.88 | 19.63 | 105.88 | 139.09 | 648.90 | 751.33 | 1.835 | 1.090 |
| 8/31/1993 | 3.01 | 51.41 | 17.09 | 83.78 | 139.19 | 650.49 | 753.93 | 1.602 | 1.091 |
| 9/30/1993 | 2.89 | 52.69 | 18.25 | 85.85 | 139.27 | 652.07 | 756.50 | 1.604 | 1.093 |
| 10/31/1993 | 2.94 | 56.66 | 19.30 | 82.99 | 139.36 | 653.83 | 759.08 | 1.443 | 1.094 |
| 11/30/1993 | 2.92 | 51.94 | 17.77 | 72.97 | 139.45 | 655.39 | 761.27 | 1.382 | 1.094 |
| 12/31/1993 | 2.79 | 49.33 | 17.70 | 61.37 | 139.54 | 656.92 | 763.17 | 1.224 | 1.095 |
| 1/31/1994 | 2.46 | 42.48 | 17.24 | 63.27 | 139.61 | 658.23 | 765.13 | 1.465 | 1.095 |
| 2/28/1994 | 3.32 | 64.77 | 19.53 | 79.65 | 139.71 | 660.05 | 767.36 | 1.212 | 1.096 |
| 3/31/1994 | 3.30 | 69.60 | 21.10 | 91.89 | 139.81 | 662.20 | 770.21 | 1.302 | 1.096 |
| 4/30/1994 | 3.08 | 64.06 | 20.80 | 74.56 | 139.90 | 664.13 | 772.45 | 1.148 | 1.096 |
| 5/31/1994 | 2.40 | 47.29 | 19.66 | 61.21 | 139.98 | 665.59 | 774.34 | 1.276 | 1.097 |
| 6/30/1994 | 3.06 | 71.18 | 23.24 | 84.58 | 140.07 | 667.73 | 776.88 | 1.174 | 1.097 |
| 7/31/1994 | 2.73 | 58.23 | 21.33 | 84.90 | 140.15 | 669.53 | 779.51 | 1.438 | 1.098 |
| 8/31/1994 | 2.85 | 60.59 | 21.25 | 75.67 | 140.24 | 671.41 | 781.86 | 1.232 | 1.098 |
| 9/30/1994 | 2.96 | 68.25 | 23.07 | 86.96 | 140.33 | 673.46 | 784.47 | 1.258 | 1.099 |
| 10/31/1994 | 3.07 | 68.61 | 22.32 | 70.59 | 140.43 | 675.59 | 786.66 | 1.016 | 1.098 |
| 11/30/1994 | 3.02 | 65.78 | 21.81 | 74.56 | 140.52 | 677.56 | 788.89 | 1.119 | 1.098 |
| 12/31/1994 | 2.79 | 65.53 | 23.51 | 69.63 | 140.60 | 679.59 | 791.05 | 1.050 | 1.098 |
| 1/31/1995 | 2.73 | 57.01 | 20.90 | 65.02 | 140.69 | 681.36 | 793.07 | 1.125 | 1.098 |
| 2/28/1995 | 2.81 | 66.98 | 23.80 | 65.34 | 140.77 | 683.23 | 794.90 | 0.964 | 1.098 |
| 3/31/1995 | 2.74 | 65.11 | 23.77 | 78.38 | 140.85 | 685.25 | 797.33 | 1.189 | 1.098 |
| 4/30/1995 | 2.79 | 65.36 | 23.39 | 73.45 | 140.93 | 687.21 | 799.53 | 1.110 | 1.098 |
| 5/31/1995 | 2.75 | 67.61 | 24.63 | 79.33 | 141.02 | 689.31 | 801.99 | 1.160 | 1.098 |
| 6/30/1995 | 2.44 | 62.71 | 25.67 | 65.34 | 141.09 | 691.19 | 803.95 | 1.030 | 1.098 |
| 7/31/1995 | 2.70 | 65.38 | 24.20 | 72.18 | 141.18 | 693.22 | 806.19 | 1.091 | 1.098 |
| 8/31/1995 | 2.82 | 71.92 | 25.54 | 69.79 | 141.26 | 695.45 | 808.35 | 0.960 | 1.098 |
| 9/30/1995 | 2.68 | 69.86 | 26.05 | 70.91 | 141.34 | 697.54 | 810.48 | 1.004 | 1.098 |
| 10/31/1995 | 2.56 | 71.31 | 27.84 | 92.05 | 141.42 | 699.75 | 813.33 | 1.278 | 1.098 |
| 11/30/1995 | 2.61 | 72.79 | 27.91 | 64.55 | 141.50 | 701.94 | 815.27 | 0.878 | 1.097 |
| 12/31/1995 | 2.37 | 82.16 | 34.63 | 72.18 | 141.58 | 704.48 | 817.50 | 0.871 | 1.097 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemnt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|------------------------------|
| 1/31/1996 | 2.34 | 75.68 | 32.36 | 81.87 | 141.65 | 706.83 | 820.04 | 1.072 | 1.097 |
| 2/29/1996 | 2.39 | 72.94 | 30.52 | 84.90 | 141.72 | 708.94 | 822.50 | 1.153 | 1.097 |
| 3/31/1996 | 2.37 | 76.65 | 32.30 | 90.62 | 141.79 | 711.32 | 825.31 | 1.172 | 1.097 |
| 4/30/1996 | 2.42 | 78.74 | 32.47 | 85.85 | 141.86 | 713.68 | 827.89 | 1.081 | 1.097 |
| 5/31/1996 | 2.24 | 65.78 | 29.36 | 78.69 | 141.93 | 715.72 | 830.33 | 1.185 | 1.097 |
| 6/30/1996 | 2.50 | 75.21 | 30.10 | 80.60 | 142.01 | 717.98 | 832.75 | 1.061 | 1.097 |
| 7/31/1996 | 2.30 | 74.23 | 32.25 | 81.56 | 142.08 | 720.28 | 835.27 | 1.089 | 1.097 |
| 8/31/1996 | 2.24 | 69.15 | 30.84 | 68.36 | 142.15 | 722.42 | 837.39 | 0.979 | 1.097 |
| 9/30/1996 | 2.18 | 77.50 | 35.61 | 95.71 | 142.21 | 724.75 | 840.27 | 1.225 | 1.097 |
| 10/31/1996 | 2.14 | 70.90 | 33.10 | 81.40 | 142.28 | 726.95 | 842.79 | 1.138 | 1.097 |
| 11/30/1996 | 2.22 | 76.71 | 34.61 | 81.08 | 142.35 | 729.25 | 845.22 | 1.048 | 1.097 |
| 12/31/1996 | 2.19 | 74.25 | 33.97 | 79.65 | 142.41 | 731.55 | 847.69 | 1.064 | 1.097 |
| 1/31/1997 | 2.11 | 72.50 | 34.42 | 78.06 | 142.48 | 733.80 | 850.11 | 1.068 | 1.097 |
| 2/28/1997 | 2.04 | 71.52 | 35.13 | 79.01 | 142.54 | 735.80 | 852.32 | 1.096 | 1.097 |
| 3/31/1997 | 2.10 | 75.50 | 35.87 | 79.49 | 142.60 | 738.14 | 854.79 | 1.044 | 1.097 |
| 4/30/1997 | 2.15 | 73.53 | 34.25 | 78.22 | 142.67 | 740.35 | 857.13 | 1.055 | 1.097 |
| 5/31/1997 | 2.21 | 73.53 | 33.33 | 87.44 | 142.74 | 742.62 | 859.84 | 1.179 | 1.097 |
| 6/30/1997 | 2.06 | 65.32 | 31.66 | 73.93 | 142.80 | 744.58 | 862.06 | 1.121 | 1.097 |
| 7/31/1997 | 1.97 | 65.90 | 33.46 | 84.90 | 142.86 | 746.63 | 864.69 | 1.277 | 1.097 |
| 8/31/1997 | 2.15 | 55.11 | 25.65 | 72.62 | 142.92 | 748.34 | 866.94 | 1.303 | 1.098 |
| 9/30/1997 | 2.09 | 60.56 | 29.02 | 75.04 | 142.99 | 750.15 | 869.20 | 1.227 | 1.098 |
| 10/31/1997 | 2.00 | 60.49 | 30.20 | 75.99 | 143.05 | 752.03 | 871.55 | 1.244 | 1.099 |
| 11/30/1997 | 2.00 | 48.12 | 24.04 | 76.47 | 143.11 | 753.47 | 873.85 | 1.570 | 1.099 |
| 12/31/1997 | 2.02 | 57.47 | 28.48 | 73.29 | 143.17 | 755.25 | 876.12 | 1.262 | 1.100 |
| 1/31/1998 | 1.96 | 58.86 | 30.01 | 79.65 | 143.23 | 757.08 | 878.59 | 1.340 | 1.100 |
| 2/28/1998 | 1.93 | 54.05 | 28.05 | 77.10 | 143.29 | 758.59 | 880.75 | 1.412 | 1.101 |
| 3/31/1998 | 2.00 | 55.54 | 27.77 | 77.42 | 143.35 | 760.31 | 883.15 | 1.380 | 1.101 |
| 4/30/1998 | 1.98 | 60.65 | 30.68 | 75.36 | 143.41 | 762.13 | 885.41 | 1.231 | 1.102 |
| 5/31/1998 | 1.95 | 65.05 | 33.41 | 77.42 | 143.47 | 764.15 | 887.81 | 1.180 | 1.102 |
| 6/30/1998 | 2.02 | 64.51 | 31.99 | 83.62 | 143.53 | 766.08 | 890.31 | 1.285 | 1.102 |
| 7/31/1998 | 1.97 | 59.46 | 30.14 | 69.95 | 143.59 | 767.93 | 892.48 | 1.165 | 1.103 |
| 8/31/1998 | 2.04 | 61.43 | 30.08 | 68.04 | 143.65 | 769.83 | 894.59 | 1.097 | 1.103 |
| 9/30/1998 | 2.01 | 63.65 | 31.67 | 59.78 | 143.71 | 771.74 | 896.39 | 0.931 | 1.102 |
| 10/31/1998 | 2.05 | 66.36 | 32.40 | 64.71 | 143.78 | 773.80 | 898.39 | 0.966 | 1.102 |
| 11/30/1998 | 2.02 | 59.18 | 29.32 | 70.75 | 143.84 | 775.57 | 900.51 | 1.184 | 1.102 |
| 12/31/1998 | 1.96 | 61.52 | 31.31 | 76.31 | 143.90 | 777.48 | 902.88 | 1.229 | 1.102 |
| 1/31/1999 | 1.99 | 65.05 | 32.63 | 74.40 | 143.96 | 779.50 | 905.19 | 1.134 | 1.102 |
| 2/28/1999 | 1.77 | 49.76 | 28.04 | 59.14 | 144.01 | 780.89 | 906.84 | 1.176 | 1.102 |
| 3/31/1999 | 1.86 | 56.74 | 30.51 | 66.29 | 144.07 | 782.65 | 908.90 | 1.157 | 1.103 |
| 4/30/1999 | 1.86 | 57.72 | 31.09 | 75.20 | 144.12 | 784.38 | 911.15 | 1.291 | 1.103 |
| 5/31/1999 | 1.81 | 53.71 | 29.60 | 79.65 | 144.18 | 786.05 | 913.62 | 1.469 | 1.104 |
| 6/30/1999 | 1.65 | 52.70 | 32.04 | 73.93 | 144.23 | 787.63 | 915.84 | 1.390 | 1.104 |
| 7/31/1999 | 1.21 | 53.24 | 43.95 | 72.97 | 144.27 | 789.28 | 918.10 | 1.362 | 1.105 |
| 8/31/1999 | 1.23 | 56.41 | 45.72 | 82.99 | 144.30 | 791.03 | 920.67 | 1.462 | 1.106 |
| 9/30/1999 | 1.24 | 47.76 | 38.67 | 81.24 | 144.34 | 792.46 | 923.11 | 1.688 | 1.107 |
| 10/31/1999 | 1.05 | 45.06 | 42.98 | 82.35 | 144.37 | 793.86 | 925.67 | 1.815 | 1.108 |
| 11/30/1999 | 1.00 | 44.24 | 44.09 | 81.56 | 144.40 | 795.18 | 928.11 | 1.832 | 1.109 |
| 12/31/1999 | 1.04 | 45.27 | 43.65 | 108.58 | 144.44 | 796.59 | 931.48 | 2.383 | 1.111 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/2000 | 0.97 | 44.82 | 46.00 | 108.90 | 144.47 | 797.98 | 934.85 | 2.415 | 1.113 |
| 2/29/2000 | 0.85 | 37.26 | 43.84 | 97.61 | 144.49 | 799.06 | 937.68 | 2.602 | 1.115 |
| 3/31/2000 | 0.95 | 41.47 | 43.80 | 99.68 | 144.52 | 800.34 | 940.77 | 2.388 | 1.117 |
| 4/30/2000 | 0.94 | 40.91 | 43.36 | 84.58 | 144.55 | 801.57 | 943.31 | 2.054 | 1.118 |
| 5/31/2000 | 0.86 | 37.64 | 43.87 | 78.06 | 144.58 | 802.74 | 945.73 | 2.060 | 1.120 |
| 6/30/2000 | 0.99 | 45.38 | 45.84 | 73.61 | 144.61 | 804.10 | 947.94 | 1.612 | 1.121 |
| 7/31/2000 | 1.03 | 39.95 | 38.77 | 91.25 | 144.64 | 805.34 | 950.77 | 2.267 | 1.122 |
| 8/31/2000 | 0.90 | 38.87 | 43.19 | 92.85 | 144.67 | 806.54 | 953.65 | 2.373 | 1.124 |
| 9/30/2000 | 0.94 | 37.98 | 40.55 | 91.41 | 144.69 | 807.68 | 956.39 | 2.390 | 1.126 |
| 10/31/2000 | 0.91 | 44.07 | 48.53 | 79.65 | 144.72 | 809.05 | 958.86 | 1.797 | 1.127 |
| 11/30/2000 | 0.85 | 37.13 | 43.77 | 75.52 | 144.75 | 810.16 | 961.12 | 2.020 | 1.128 |
| 12/31/2000 | 0.86 | 36.87 | 42.64 | 83.62 | 144.77 | 811.30 | 963.72 | 2.253 | 1.130 |
| 1/31/2001 | 0.82 | 33.74 | 41.09 | 90.94 | 144.80 | 812.35 | 966.54 | 2.677 | 1.131 |
| 2/28/2001 | 0.81 | 32.74 | 40.57 | 70.90 | 144.82 | 813.27 | 968.52 | 2.150 | 1.133 |
| 3/31/2001 | 0.78 | 36.06 | 46.48 | 64.71 | 144.85 | 814.38 | 970.53 | 1.783 | 1.133 |
| 4/30/2001 | 0.77 | 35.01 | 45.27 | 52.15 | 144.87 | 815.43 | 972.09 | 1.480 | 1.134 |
| 5/31/2001 | 0.77 | 31.71 | 41.31 | 39.43 | 144.89 | 816.42 | 973.31 | 1.235 | 1.134 |
| 6/30/2001 | 0.75 | 34.60 | 46.33 | 38.00 | 144.92 | 817.46 | 974.45 | 1.091 | 1.134 |
| 7/31/2001 | 0.72 | 34.27 | 47.75 | 80.28 | 144.94 | 818.52 | 976.94 | 2.328 | 1.135 |
| 8/31/2001 | 0.61 | 31.84 | 51.82 | 81.40 | 144.96 | 819.50 | 979.47 | 2.542 | 1.137 |
| 9/30/2001 | 0.71 | 33.61 | 47.33 | 95.23 | 144.98 | 820.51 | 982.32 | 2.816 | 1.139 |
| 10/31/2001 | 0.77 | 31.06 | 40.11 | 99.20 | 145.00 | 821.48 | 985.40 | 3.171 | 1.141 |
| 11/30/2001 | 0.75 | 30.78 | 40.95 | 99.84 | 145.02 | 822.40 | 988.39 | 3.221 | 1.144 |
| 12/31/2001 | 0.75 | 32.21 | 42.86 | 102.38 | 145.05 | 823.40 | 991.57 | 3.157 | 1.146 |
| 1/31/2002 | 0.74 | 31.83 | 42.90 | 86.48 | 145.07 | 824.38 | 994.25 | 2.699 | 1.148 |
| 2/28/2002 | 0.67 | 34.74 | 52.16 | 101.27 | 145.09 | 825.36 | 997.08 | 2.899 | 1.150 |
| 3/31/2002 | 0.68 | 39.68 | 58.30 | 103.81 | 145.11 | 826.59 | 1000.30 | 2.603 | 1.152 |
| 4/30/2002 | 0.72 | 39.02 | 53.95 | 106.68 | 145.13 | 827.76 | 1003.50 | 2.719 | 1.154 |
| 5/31/2002 | 0.61 | 49.12 | 80.57 | 114.95 | 145.15 | 829.28 | 1007.07 | 2.332 | 1.156 |
| 6/30/2002 | 0.58 | 48.81 | 83.68 | 117.37 | 145.17 | 830.75 | 1010.59 | 2.396 | 1.158 |
| 7/31/2002 | 0.51 | 33.06 | 65.28 | 109.81 | 145.18 | 831.77 | 1013.99 | 3.307 | 1.160 |
| 8/31/2002 | 0.28 | 3.73 | 13.21 | 129.42 | 145.19 | 831.89 | 1018.00 | 33.978 | 1.165 |
| 9/30/2002 | 0.34 | 4.43 | 12.97 | 108.25 | 145.20 | 832.02 | 1021.25 | 23.902 | 1.168 |
| 10/31/2002 | 0.31 | 4.33 | 14.13 | 83.48 | 145.21 | 832.15 | 1023.84 | 18.898 | 1.171 |
| 11/30/2002 | 0.38 | 7.41 | 19.42 | 86.10 | 145.22 | 832.38 | 1026.42 | 11.444 | 1.174 |
| 12/31/2002 | 4.53 | 59.30 | 13.10 | 179.61 | 145.36 | 834.21 | 1031.99 | 2.963 | 1.178 |
| 1/31/2003 | 3.68 | 63.89 | 17.36 | 212.61 | 145.48 | 836.19 | 1038.58 | 3.273 | 1.183 |
| 2/28/2003 | 3.14 | 66.65 | 21.22 | 187.21 | 145.57 | 838.06 | 1043.82 | 2.771 | 1.186 |
| 3/31/2003 | 2.96 | 61.89 | 20.90 | 176.74 | 145.66 | 839.98 | 1049.30 | 2.817 | 1.190 |
| 4/30/2003 | 2.94 | 61.62 | 20.96 | 196.27 | 145.75 | 841.83 | 1055.19 | 3.142 | 1.194 |
| 5/31/2003 | 2.95 | 61.90 | 21.01 | 188.87 | 145.84 | 843.75 | 1061.04 | 3.010 | 1.198 |
| 6/30/2003 | 2.87 | 61.32 | 21.33 | 188.83 | 145.92 | 845.59 | 1066.71 | 3.039 | 1.202 |
| 7/31/2003 | 2.83 | 60.60 | 21.40 | 183.39 | 146.01 | 847.46 | 1072.39 | 2.986 | 1.205 |
| 8/31/2003 | 2.86 | 58.14 | 20.32 | 44.81 | 146.10 | 849.27 | 1073.78 | 0.760 | 1.204 |
| 9/30/2003 | 3.04 | 56.35 | 18.52 | 45.57 | 146.19 | 850.96 | 1075.15 | 0.796 | 1.204 |
| 10/31/2003 | 3.66 | 62.51 | 17.07 | 79.94 | 146.31 | 852.90 | 1077.63 | 1.257 | 1.204 |
| 11/30/2003 | 8.30 | 73.99 | 8.91 | 191.90 | 146.55 | 855.11 | 1083.38 | 2.512 | 1.207 |
| 12/31/2003 | 10.42 | 126.73 | 12.16 | 241.10 | 146.88 | 859.04 | 1090.86 | 1.858 | 1.210 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/2004 | 9.48 | 131.25 | 13.85 | 239.87 | 147.17 | 863.11 | 1098.29 | 1.790 | 1.213 |
| 2/29/2004 | 8.61 | 120.68 | 14.01 | 111.48 | 147.42 | 866.61 | 1101.53 | 0.905 | 1.211 |
| 3/31/2004 | 8.07 | 126.02 | 15.62 | 221.70 | 147.67 | 870.52 | 1108.40 | 1.727 | 1.214 |
| 4/30/2004 | 7.55 | 126.15 | 16.72 | 257.18 | 147.90 | 874.30 | 1116.12 | 2.004 | 1.217 |
| 5/31/2004 | 6.22 | 122.51 | 19.69 | 254.29 | 148.09 | 878.10 | 1124.00 | 2.046 | 1.221 |
| 6/30/2004 | 6.59 | 125.00 | 18.97 | 257.58 | 148.29 | 881.85 | 1131.73 | 2.030 | 1.224 |
| 7/31/2004 | 7.02 | 124.21 | 17.71 | 252.53 | 148.51 | 885.70 | 1139.55 | 2.000 | 1.227 |
| 8/31/2004 | 6.25 | 124.40 | 19.90 | 257.99 | 148.70 | 889.56 | 1147.55 | 2.044 | 1.231 |
| 9/30/2004 | 6.56 | 122.34 | 18.64 | 254.05 | 148.90 | 893.23 | 1155.17 | 2.045 | 1.234 |
| 10/31/2004 | 6.31 | 127.05 | 20.12 | 254.09 | 149.09 | 897.17 | 1163.05 | 1.972 | 1.237 |
| 11/30/2004 | 4.97 | 121.67 | 24.49 | 286.17 | 149.24 | 900.82 | 1171.64 | 2.325 | 1.241 |
| 12/31/2004 | 5.22 | 121.03 | 23.20 | 326.73 | 149.40 | 904.57 | 1181.76 | 2.666 | 1.247 |
| 1/31/2005 | 5.15 | 126.28 | 24.53 | 357.60 | 149.56 | 908.48 | 1192.85 | 2.799 | 1.253 |
| 2/28/2005 | 4.96 | 126.58 | 25.50 | 372.85 | 149.70 | 912.03 | 1203.29 | 2.912 | 1.260 |
| 3/31/2005 | 4.99 | 124.49 | 24.96 | 370.83 | 149.86 | 915.89 | 1214.79 | 2.945 | 1.266 |
| 4/30/2005 | 4.70 | 124.55 | 26.53 | 366.07 | 150.00 | 919.62 | 1225.77 | 2.907 | 1.273 |
| 5/31/2005 | 4.05 | 128.37 | 31.71 | 352.50 | 150.12 | 923.60 | 1236.69 | 2.721 | 1.279 |
| 6/30/2005 | 4.80 | 121.38 | 25.31 | 383.89 | 150.27 | 927.24 | 1248.21 | 3.127 | 1.286 |
| 7/31/2005 | 4.99 | 123.94 | 24.84 | 392.21 | 150.42 | 931.09 | 1260.37 | 3.128 | 1.293 |
| 8/31/2005 | 5.23 | 118.41 | 22.65 | 389.70 | 150.58 | 934.76 | 1272.45 | 3.250 | 1.301 |
| 9/30/2005 | 5.52 | 123.28 | 22.32 | 385.55 | 150.75 | 938.46 | 1284.02 | 3.087 | 1.307 |
| 10/31/2005 | 5.36 | 128.77 | 24.01 | 271.51 | 150.91 | 942.45 | 1292.43 | 2.083 | 1.311 |
| 11/30/2005 | 4.87 | 129.36 | 26.58 | 360.75 | 151.06 | 946.33 | 1303.26 | 2.759 | 1.316 |
| 12/31/2005 | 4.23 | 131.13 | 30.99 | 360.61 | 151.19 | 950.39 | 1314.44 | 2.725 | 1.322 |
| 1/31/2006 | 4.35 | 132.41 | 30.42 | 350.44 | 151.33 | 954.50 | 1325.30 | 2.622 | 1.328 |
| 2/28/2006 | 3.85 | 137.38 | 35.71 | 347.47 | 151.43 | 958.34 | 1335.03 | 2.509 | 1.332 |
| 3/31/2006 | 4.12 | 137.25 | 33.35 | 345.40 | 151.56 | 962.60 | 1345.74 | 2.495 | 1.337 |
| 4/30/2006 | 3.35 | 137.51 | 41.02 | 319.12 | 151.66 | 966.72 | 1355.31 | 2.304 | 1.341 |
| 5/31/2006 | 5.15 | 134.56 | 26.11 | 340.13 | 151.82 | 970.90 | 1365.85 | 2.500 | 1.346 |
| 6/30/2006 | 4.70 | 130.61 | 27.81 | 343.95 | 151.96 | 974.81 | 1376.17 | 2.606 | 1.351 |
| 7/31/2006 | 4.25 | 131.00 | 30.80 | 342.80 | 152.10 | 978.88 | 1386.80 | 2.592 | 1.356 |
| 8/31/2006 | 4.18 | 128.04 | 30.66 | 332.73 | 152.22 | 982.84 | 1397.11 | 2.574 | 1.361 |
| 9/30/2006 | 4.30 | 131.43 | 30.58 | 346.29 | 152.35 | 986.79 | 1407.50 | 2.610 | 1.365 |
| 10/31/2006 | 4.34 | 129.40 | 29.81 | 343.95 | 152.49 | 990.80 | 1418.16 | 2.633 | 1.370 |
| 11/30/2006 | 3.75 | 135.24 | 36.07 | 357.75 | 152.60 | 994.86 | 1428.90 | 2.624 | 1.375 |
| 12/31/2006 | 4.03 | 141.13 | 35.02 | 381.76 | 152.73 | 999.23 | 1440.73 | 2.683 | 1.381 |
| 1/31/2007 | 4.22 | 138.26 | 32.77 | 345.25 | 152.86 | 1003.52 | 1451.43 | 2.475 | 1.385 |
| 2/28/2007 | 4.42 | 132.96 | 30.05 | 358.30 | 152.98 | 1007.24 | 1461.47 | 2.669 | 1.390 |
| 3/31/2007 | 4.28 | 132.63 | 31.02 | 353.21 | 153.11 | 1011.35 | 1472.42 | 2.639 | 1.395 |
| 4/30/2007 | 4.19 | 133.42 | 31.86 | 349.86 | 153.24 | 1015.35 | 1482.91 | 2.599 | 1.399 |
| 5/31/2007 | 3.99 | 131.51 | 33.00 | 332.30 | 153.36 | 1019.43 | 1493.21 | 2.505 | 1.404 |
| 6/30/2007 | 3.24 | 128.74 | 39.68 | 215.33 | 153.46 | 1023.29 | 1499.67 | 1.661 | 1.405 |
| 7/31/2007 | 3.40 | 128.23 | 37.75 | 189.42 | 153.56 | 1027.27 | 1505.55 | 1.466 | 1.405 |
| 8/31/2007 | 3.66 | 128.55 | 35.16 | 165.28 | 153.68 | 1031.25 | 1510.67 | 1.275 | 1.404 |
| 9/30/2007 | 3.54 | 130.13 | 36.73 | 160.41 | 153.78 | 1035.16 | 1515.48 | 1.223 | 1.404 |
| 10/31/2007 | 3.56 | 130.34 | 36.64 | 165.88 | 153.89 | 1039.20 | 1520.62 | 1.263 | 1.403 |
| 11/30/2007 | 3.54 | 130.78 | 36.93 | 166.46 | 154.00 | 1043.12 | 1525.62 | 1.263 | 1.403 |
| 12/31/2007 | 3.35 | 132.60 | 39.55 | 165.81 | 154.10 | 1047.23 | 1530.76 | 1.241 | 1.402 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/2008 | 3.40 | 131.31 | 38.63 | 163.23 | 154.21 | 1051.30 | 1535.82 | 1.234 | 1.401 |
| 2/29/2008 | 3.21 | 128.57 | 40.02 | 161.87 | 154.30 | 1055.03 | 1540.51 | 1.250 | 1.401 |
| 3/31/2008 | 3.47 | 132.06 | 38.01 | 151.43 | 154.41 | 1059.12 | 1545.21 | 1.138 | 1.400 |
| 4/30/2008 | 3.52 | 130.88 | 37.22 | 166.14 | 154.52 | 1063.05 | 1550.19 | 1.260 | 1.399 |
| 5/31/2008 | 3.53 | 128.82 | 36.54 | 153.95 | 154.63 | 1067.04 | 1554.96 | 1.186 | 1.399 |
| 6/30/2008 | 3.32 | 123.82 | 37.27 | 150.20 | 154.73 | 1070.76 | 1559.47 | 1.204 | 1.398 |
| 7/31/2008 | 3.01 | 119.25 | 39.66 | 135.72 | 154.82 | 1074.46 | 1563.68 | 1.130 | 1.397 |
| 8/31/2008 | 3.36 | 122.52 | 36.45 | 146.86 | 154.92 | 1078.25 | 1568.23 | 1.189 | 1.396 |
| 9/30/2008 | 3.40 | 126.30 | 37.13 | 153.44 | 155.03 | 1082.04 | 1572.83 | 1.205 | 1.396 |
| 10/31/2008 | 3.60 | 129.94 | 36.10 | 164.46 | 155.14 | 1086.07 | 1577.93 | 1.256 | 1.395 |
| 11/30/2008 | 3.52 | 132.46 | 37.68 | 189.49 | 155.24 | 1090.04 | 1583.61 | 1.420 | 1.395 |
| 12/31/2008 | 3.21 | 126.77 | 39.53 | 192.03 | 155.34 | 1093.97 | 1589.57 | 1.504 | 1.396 |
| 1/31/2009 | 3.47 | 133.26 | 38.39 | 180.80 | 155.45 | 1098.11 | 1595.17 | 1.347 | 1.396 |
| 2/28/2009 | 3.48 | 133.07 | 38.28 | 175.87 | 155.55 | 1101.83 | 1600.10 | 1.312 | 1.395 |
| 3/31/2009 | 3.48 | 134.30 | 38.54 | 186.23 | 155.65 | 1105.99 | 1605.87 | 1.376 | 1.395 |
| 4/30/2009 | 3.40 | 133.88 | 39.39 | 194.78 | 155.76 | 1110.01 | 1611.71 | 1.444 | 1.395 |
| 5/31/2009 | 3.00 | 131.83 | 43.95 | 168.29 | 155.85 | 1114.10 | 1616.93 | 1.268 | 1.395 |
| 6/30/2009 | 3.14 | 130.48 | 41.56 | 169.59 | 155.94 | 1118.01 | 1622.02 | 1.291 | 1.395 |
| 7/31/2009 | 2.98 | 125.68 | 42.14 | 166.30 | 156.04 | 1121.91 | 1627.17 | 1.314 | 1.394 |
| 8/31/2009 | 2.85 | 125.89 | 44.21 | 158.17 | 156.12 | 1125.81 | 1632.08 | 1.248 | 1.394 |
| 9/30/2009 | 2.93 | 127.31 | 43.39 | 160.18 | 156.21 | 1129.63 | 1636.88 | 1.250 | 1.393 |
| 10/31/2009 | 2.96 | 128.89 | 43.48 | 172.18 | 156.30 | 1133.63 | 1642.22 | 1.327 | 1.393 |
| 11/30/2009 | 2.88 | 130.22 | 45.22 | 181.09 | 156.39 | 1137.53 | 1647.65 | 1.382 | 1.393 |
| 12/31/2009 | 2.90 | 130.19 | 44.87 | 194.24 | 156.48 | 1141.57 | 1653.67 | 1.482 | 1.393 |
| 1/31/2010 | 2.85 | 130.04 | 45.63 | 207.72 | 156.57 | 1145.60 | 1660.11 | 1.587 | 1.394 |
| 2/28/2010 | 2.84 | 126.39 | 44.55 | 190.69 | 156.65 | 1149.14 | 1665.45 | 1.499 | 1.394 |
| 3/31/2010 | 2.78 | 124.44 | 44.79 | 163.14 | 156.73 | 1153.00 | 1670.51 | 1.302 | 1.394 |
| 4/30/2010 | 2.48 | 117.10 | 47.28 | 137.72 | 156.81 | 1156.51 | 1674.64 | 1.169 | 1.393 |
| 5/31/2010 | 2.58 | 124.15 | 48.06 | 137.81 | 156.89 | 1160.36 | 1678.91 | 1.103 | 1.392 |
| 6/30/2010 | 2.67 | 127.71 | 47.89 | 130.97 | 156.97 | 1164.19 | 1682.84 | 1.019 | 1.391 |
| 7/31/2010 | 2.33 | 118.07 | 50.78 | 116.19 | 157.04 | 1167.85 | 1686.44 | 0.979 | 1.390 |
| 8/31/2010 | 2.42 | 124.97 | 51.73 | 98.59 | 157.12 | 1171.72 | 1689.50 | 0.785 | 1.388 |
| 9/30/2010 | 2.31 | 123.19 | 53.38 | 56.86 | 157.19 | 1175.42 | 1691.21 | 0.459 | 1.385 |
| 10/31/2010 | 2.32 | 125.05 | 53.81 | 150.01 | 157.26 | 1179.30 | 1695.86 | 1.193 | 1.385 |
| 11/30/2010 | 2.25 | 125.79 | 55.78 | 159.61 | 157.32 | 1183.07 | 1700.65 | 1.262 | 1.384 |
| 12/31/2010 | 2.10 | 133.64 | 63.76 | 159.42 | 157.39 | 1187.21 | 1705.59 | 1.188 | 1.384 |
| 1/31/2011 | 2.10 | 137.59 | 65.49 | 166.36 | 157.45 | 1191.48 | 1710.74 | 1.204 | 1.383 |
| 2/28/2011 | 2.36 | 135.53 | 57.40 | 173.13 | 157.52 | 1195.27 | 1715.59 | 1.271 | 1.383 |
| 3/31/2011 | 2.48 | 135.35 | 54.63 | 168.58 | 157.60 | 1199.47 | 1720.82 | 1.239 | 1.382 |
| 4/30/2011 | 1.50 | 87.96 | 58.69 | 167.30 | 157.64 | 1202.11 | 1725.84 | 1.893 | 1.383 |
| 5/31/2011 | 1.13 | 70.71 | 62.69 | 171.75 | 157.68 | 1204.30 | 1731.16 | 2.418 | 1.385 |
| 6/30/2011 | 1.20 | 74.27 | 62.10 | 102.18 | 157.71 | 1206.53 | 1734.23 | 1.369 | 1.385 |
| 7/31/2011 | 0.96 | 71.04 | 73.72 | | 157.74 | 1208.73 | 1734.23 | 0.000 | 1.383 |
| 8/31/2011 | 2.28 | 123.82 | 54.24 | 125.88 | 157.81 | 1212.57 | 1738.13 | 1.011 | 1.381 |
| 9/30/2011 | 2.36 | 130.09 | 55.19 | 168.50 | 157.88 | 1216.47 | 1743.18 | 1.289 | 1.381 |
| 10/31/2011 | 2.28 | 131.77 | 57.76 | 164.55 | 157.96 | 1220.55 | 1748.29 | 1.243 | 1.381 |
| 11/30/2011 | 2.22 | 135.69 | 61.18 | 158.57 | 158.02 | 1224.63 | 1753.04 | 1.163 | 1.380 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|-----------------------------|-------------------------------|--------------------------------|-----------------------------------|---------------------------|-----------------------------|----------------------------|---------------------------------|--------------------------------------|
| 12/31/2011 | 2.04 | 134.74 | 65.95 | 164.87 | 158.09 | 1228.80 | 1758.15 | 1.218 | 1.379 |

Pattern: 00/12-11-009-25 Inj Set: E Routledge Unit #1

Oil Formation Vol. Factor : 1.05 m3/m3

Water Formation Vol Factor : 1.00 m3/m3

Water / Oil Ratio : 70.95 m3/m3

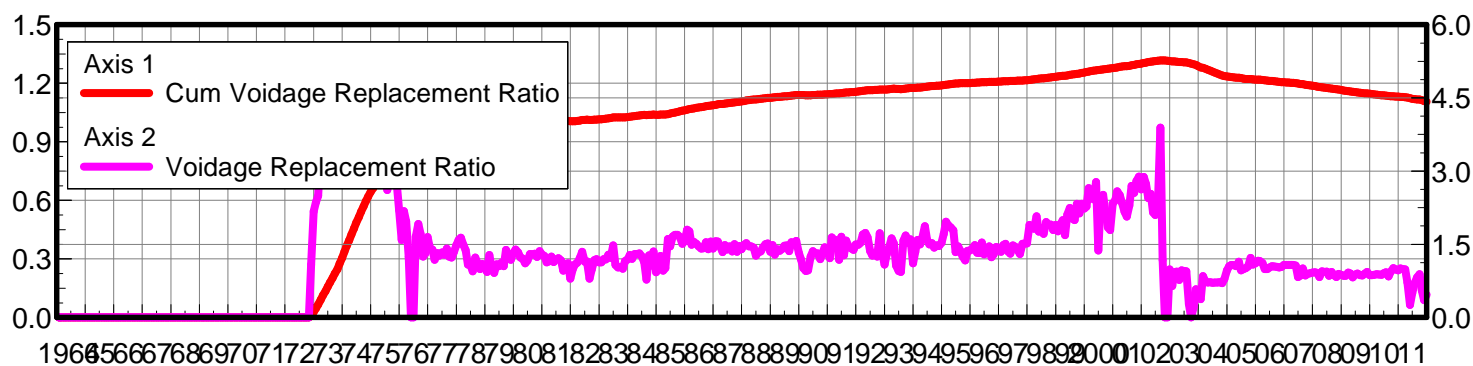
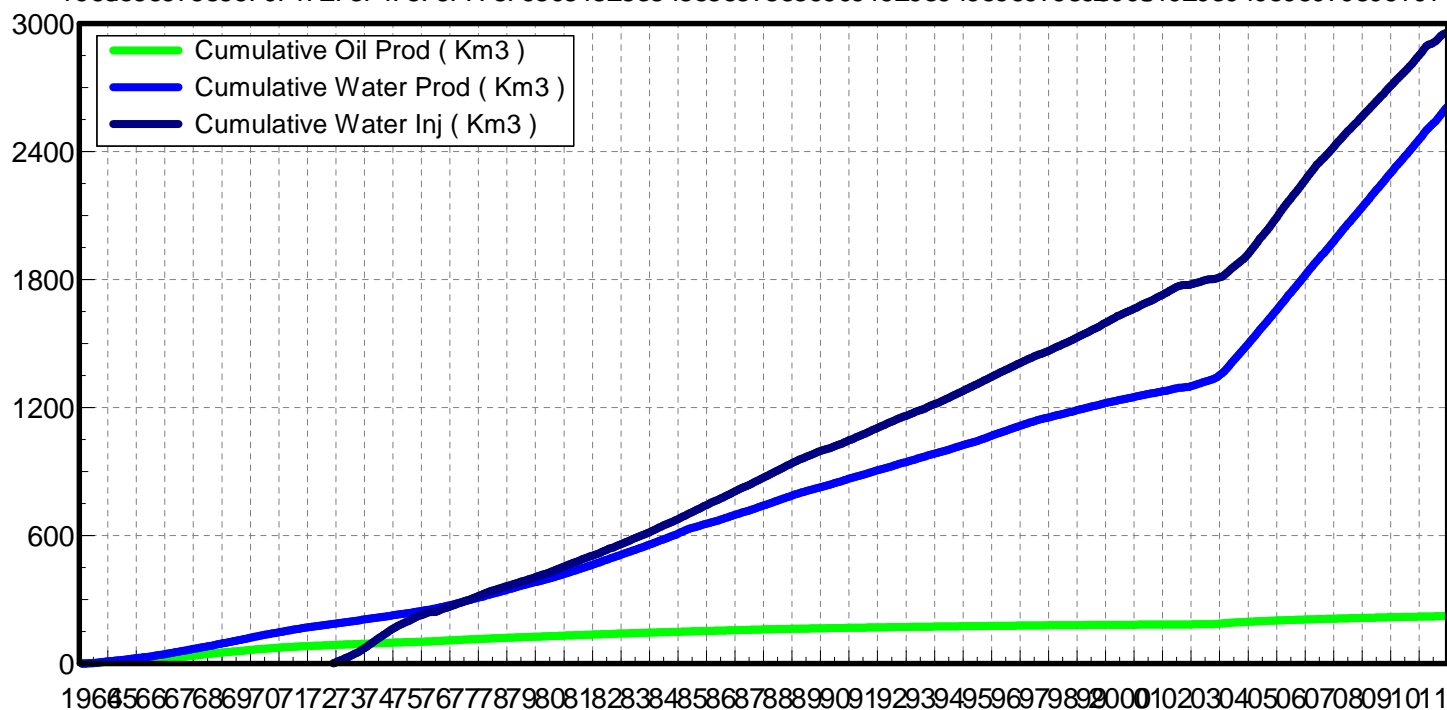
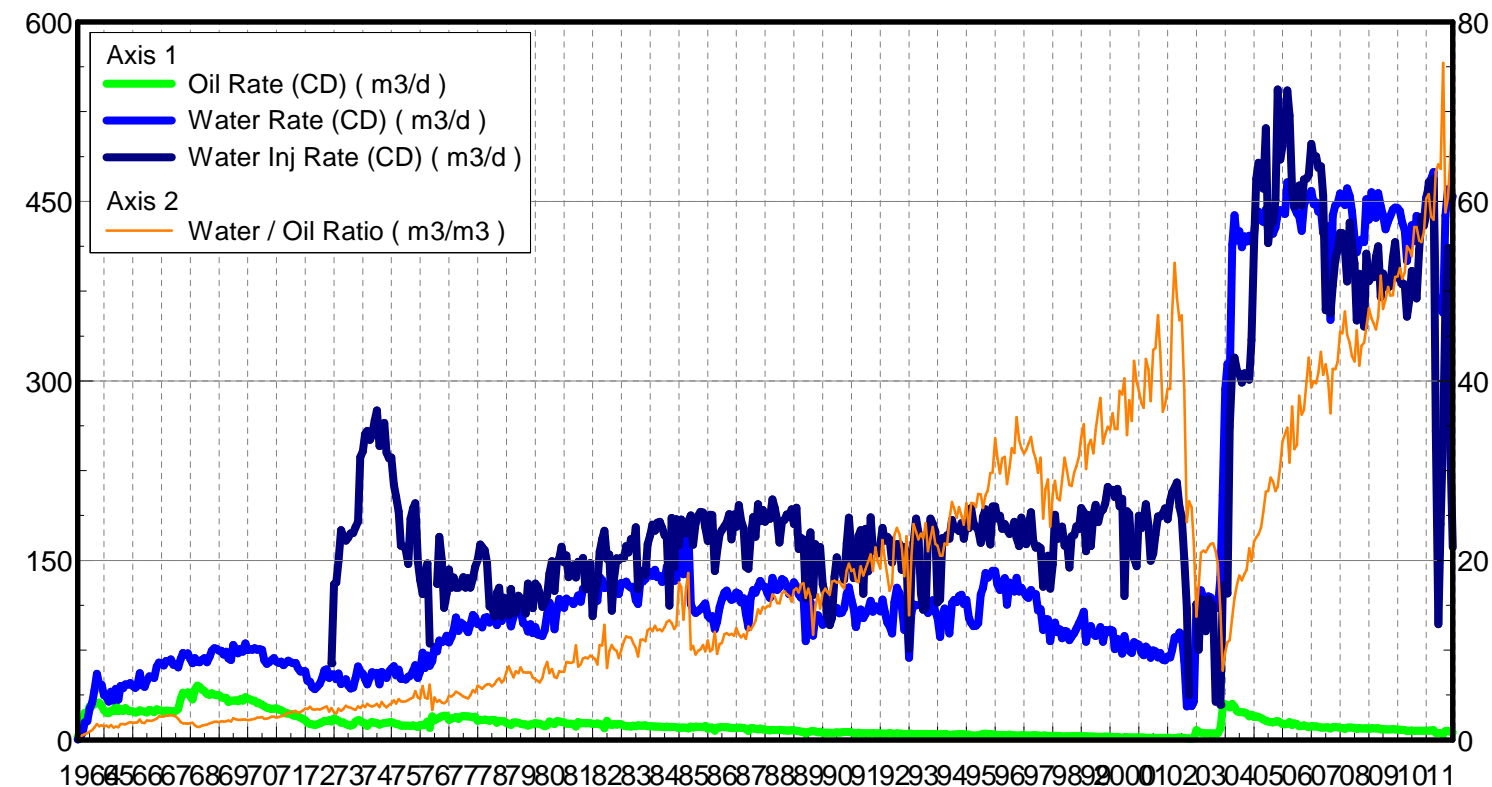
March 04, 2012

Operator: TUNDRA_OIL_&_GAS_LIMITED

Oil Rate (CD) : 6.34 m3/d

Water Rate (CD) : 449.66 m3/d

Water Inj Rate (CD) : 211.68 m3/d



Date

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1964 | 2.49 | 0.37 | 0.15 | | 0.08 | 0.01 | 0.00 | 0.000 | 0.000 |
| 2/29/1964 | 6.68 | 2.33 | 0.35 | | 0.27 | 0.08 | 0.00 | 0.000 | 0.000 |
| 3/31/1964 | 11.29 | 5.79 | 0.51 | | 0.62 | 0.26 | 0.00 | 0.000 | 0.000 |
| 4/30/1964 | 22.72 | 14.62 | 0.64 | | 1.30 | 0.70 | 0.00 | 0.000 | 0.000 |
| 5/31/1964 | 20.84 | 15.68 | 0.75 | | 1.95 | 1.18 | 0.00 | 0.000 | 0.000 |
| 6/30/1964 | 27.93 | 25.79 | 0.92 | | 2.79 | 1.96 | 0.00 | 0.000 | 0.000 |
| 7/31/1964 | 28.38 | 30.80 | 1.09 | | 3.67 | 2.91 | 0.00 | 0.000 | 0.000 |
| 8/31/1964 | 29.87 | 41.14 | 1.38 | | 4.59 | 4.19 | 0.00 | 0.000 | 0.000 |
| 9/30/1964 | 30.97 | 55.24 | 1.78 | | 5.52 | 5.84 | 0.00 | 0.000 | 0.000 |
| 10/31/1964 | 31.05 | 46.69 | 1.50 | | 6.48 | 7.29 | 0.00 | 0.000 | 0.000 |
| 11/30/1964 | 28.16 | 45.88 | 1.63 | | 7.33 | 8.67 | 0.00 | 0.000 | 0.000 |
| 12/31/1964 | 24.75 | 37.34 | 1.51 | | 8.10 | 9.83 | 0.00 | 0.000 | 0.000 |
| 1/31/1965 | 22.71 | 36.09 | 1.59 | | 8.80 | 10.94 | 0.00 | 0.000 | 0.000 |
| 2/28/1965 | 22.37 | 31.96 | 1.43 | | 9.43 | 11.84 | 0.00 | 0.000 | 0.000 |
| 3/31/1965 | 24.47 | 40.28 | 1.65 | | 10.18 | 13.09 | 0.00 | 0.000 | 0.000 |
| 4/30/1965 | 23.91 | 33.11 | 1.38 | | 10.90 | 14.08 | 0.00 | 0.000 | 0.000 |
| 5/31/1965 | 28.77 | 42.76 | 1.49 | | 11.79 | 15.41 | 0.00 | 0.000 | 0.000 |
| 6/30/1965 | 24.09 | 33.69 | 1.40 | | 12.52 | 16.42 | 0.00 | 0.000 | 0.000 |
| 7/31/1965 | 25.70 | 45.13 | 1.76 | | 13.31 | 17.82 | 0.00 | 0.000 | 0.000 |
| 8/31/1965 | 24.18 | 43.09 | 1.78 | | 14.06 | 19.15 | 0.00 | 0.000 | 0.000 |
| 9/30/1965 | 26.52 | 46.40 | 1.75 | | 14.86 | 20.54 | 0.00 | 0.000 | 0.000 |
| 10/31/1965 | 24.38 | 46.11 | 1.89 | | 15.61 | 21.97 | 0.00 | 0.000 | 0.000 |
| 11/30/1965 | 23.87 | 47.47 | 1.99 | | 16.33 | 23.40 | 0.00 | 0.000 | 0.000 |
| 12/31/1965 | 23.83 | 45.20 | 1.90 | | 17.07 | 24.80 | 0.00 | 0.000 | 0.000 |
| 1/31/1966 | 22.82 | 43.58 | 1.91 | | 17.78 | 26.15 | 0.00 | 0.000 | 0.000 |
| 2/28/1966 | 23.20 | 45.18 | 1.95 | | 18.43 | 27.42 | 0.00 | 0.000 | 0.000 |
| 3/31/1966 | 24.71 | 55.71 | 2.25 | | 19.19 | 29.14 | 0.00 | 0.000 | 0.000 |
| 4/30/1966 | 23.97 | 45.98 | 1.92 | | 19.91 | 30.52 | 0.00 | 0.000 | 0.000 |
| 5/31/1966 | 23.61 | 44.21 | 1.87 | | 20.64 | 31.89 | 0.00 | 0.000 | 0.000 |
| 6/30/1966 | 22.81 | 49.33 | 2.16 | | 21.33 | 33.37 | 0.00 | 0.000 | 0.000 |
| 7/31/1966 | 25.01 | 53.19 | 2.13 | | 22.10 | 35.02 | 0.00 | 0.000 | 0.000 |
| 8/31/1966 | 24.61 | 52.44 | 2.13 | | 22.87 | 36.65 | 0.00 | 0.000 | 0.000 |
| 9/30/1966 | 23.15 | 51.81 | 2.24 | | 23.56 | 38.20 | 0.00 | 0.000 | 0.000 |
| 10/31/1966 | 25.69 | 61.40 | 2.39 | | 24.36 | 40.10 | 0.00 | 0.000 | 0.000 |
| 11/30/1966 | 24.72 | 64.48 | 2.61 | | 25.10 | 42.04 | 0.00 | 0.000 | 0.000 |
| 12/31/1966 | 24.52 | 63.84 | 2.60 | | 25.86 | 44.02 | 0.00 | 0.000 | 0.000 |
| 1/31/1967 | 23.84 | 62.20 | 2.61 | | 26.60 | 45.95 | 0.00 | 0.000 | 0.000 |
| 2/28/1967 | 24.58 | 65.89 | 2.68 | | 27.29 | 47.79 | 0.00 | 0.000 | 0.000 |
| 3/31/1967 | 24.32 | 65.72 | 2.70 | | 28.04 | 49.83 | 0.00 | 0.000 | 0.000 |
| 4/30/1967 | 24.21 | 67.19 | 2.78 | | 28.77 | 51.84 | 0.00 | 0.000 | 0.000 |
| 5/31/1967 | 23.41 | 62.77 | 2.68 | | 29.49 | 53.79 | 0.00 | 0.000 | 0.000 |
| 6/30/1967 | 24.23 | 63.59 | 2.62 | | 30.22 | 55.70 | 0.00 | 0.000 | 0.000 |
| 7/31/1967 | 25.91 | 60.69 | 2.34 | | 31.02 | 57.58 | 0.00 | 0.000 | 0.000 |
| 8/31/1967 | 34.34 | 67.70 | 1.97 | | 32.09 | 59.68 | 0.00 | 0.000 | 0.000 |
| 9/30/1967 | 39.48 | 72.50 | 1.84 | | 33.27 | 61.85 | 0.00 | 0.000 | 0.000 |
| 10/31/1967 | 38.79 | 70.96 | 1.83 | | 34.47 | 64.05 | 0.00 | 0.000 | 0.000 |
| 11/30/1967 | 39.84 | 72.23 | 1.81 | | 35.67 | 66.22 | 0.00 | 0.000 | 0.000 |
| 12/31/1967 | 36.17 | 67.56 | 1.87 | | 36.79 | 68.31 | 0.00 | 0.000 | 0.000 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1968 | 33.76 | 63.95 | 1.89 | | 37.84 | 70.30 | 0.00 | 0.000 | 0.000 |
| 2/29/1968 | 41.81 | 68.27 | 1.63 | | 39.05 | 72.28 | 0.00 | 0.000 | 0.000 |
| 3/31/1968 | 45.27 | 65.12 | 1.44 | | 40.45 | 74.29 | 0.00 | 0.000 | 0.000 |
| 4/30/1968 | 44.27 | 64.75 | 1.46 | | 41.78 | 76.24 | 0.00 | 0.000 | 0.000 |
| 5/31/1968 | 41.77 | 67.13 | 1.61 | | 43.07 | 78.32 | 0.00 | 0.000 | 0.000 |
| 6/30/1968 | 40.93 | 68.27 | 1.67 | | 44.30 | 80.37 | 0.00 | 0.000 | 0.000 |
| 7/31/1968 | 38.42 | 64.94 | 1.69 | | 45.49 | 82.38 | 0.00 | 0.000 | 0.000 |
| 8/31/1968 | 37.73 | 69.51 | 1.84 | | 46.66 | 84.53 | 0.00 | 0.000 | 0.000 |
| 9/30/1968 | 38.99 | 74.52 | 1.91 | | 47.83 | 86.77 | 0.00 | 0.000 | 0.000 |
| 10/31/1968 | 37.79 | 76.76 | 2.03 | | 49.00 | 89.15 | 0.00 | 0.000 | 0.000 |
| 11/30/1968 | 37.42 | 76.05 | 2.03 | | 50.13 | 91.43 | 0.00 | 0.000 | 0.000 |
| 12/31/1968 | 37.43 | 74.46 | 1.99 | | 51.29 | 93.74 | 0.00 | 0.000 | 0.000 |
| 1/31/1969 | 35.41 | 74.54 | 2.10 | | 52.38 | 96.05 | 0.00 | 0.000 | 0.000 |
| 2/28/1969 | 35.29 | 71.25 | 2.02 | | 53.37 | 98.04 | 0.00 | 0.000 | 0.000 |
| 3/31/1969 | 35.11 | 73.59 | 2.10 | | 54.46 | 100.33 | 0.00 | 0.000 | 0.000 |
| 4/30/1969 | 31.58 | 67.99 | 2.15 | | 55.41 | 102.37 | 0.00 | 0.000 | 0.000 |
| 5/31/1969 | 32.73 | 66.72 | 2.04 | | 56.42 | 104.43 | 0.00 | 0.000 | 0.000 |
| 6/30/1969 | 32.84 | 79.37 | 2.42 | | 57.41 | 106.81 | 0.00 | 0.000 | 0.000 |
| 7/31/1969 | 33.09 | 76.01 | 2.30 | | 58.43 | 109.17 | 0.00 | 0.000 | 0.000 |
| 8/31/1969 | 32.33 | 72.49 | 2.24 | | 59.44 | 111.42 | 0.00 | 0.000 | 0.000 |
| 9/30/1969 | 34.24 | 76.13 | 2.22 | | 60.46 | 113.70 | 0.00 | 0.000 | 0.000 |
| 10/31/1969 | 32.80 | 73.77 | 2.25 | | 61.48 | 115.99 | 0.00 | 0.000 | 0.000 |
| 11/30/1969 | 35.70 | 80.58 | 2.26 | | 62.55 | 118.41 | 0.00 | 0.000 | 0.000 |
| 12/31/1969 | 34.42 | 75.12 | 2.18 | | 63.62 | 120.74 | 0.00 | 0.000 | 0.000 |
| 1/31/1970 | 33.72 | 75.75 | 2.25 | | 64.66 | 123.08 | 0.00 | 0.000 | 0.000 |
| 2/28/1970 | 32.76 | 75.21 | 2.30 | | 65.58 | 125.19 | 0.00 | 0.000 | 0.000 |
| 3/31/1970 | 32.78 | 76.67 | 2.34 | | 66.60 | 127.57 | 0.00 | 0.000 | 0.000 |
| 4/30/1970 | 30.56 | 75.36 | 2.47 | | 67.51 | 129.83 | 0.00 | 0.000 | 0.000 |
| 5/31/1970 | 30.54 | 75.82 | 2.48 | | 68.46 | 132.18 | 0.00 | 0.000 | 0.000 |
| 6/30/1970 | 29.37 | 75.27 | 2.56 | | 69.34 | 134.44 | 0.00 | 0.000 | 0.000 |
| 7/31/1970 | 28.27 | 66.59 | 2.36 | | 70.22 | 136.50 | 0.00 | 0.000 | 0.000 |
| 8/31/1970 | 26.76 | 63.55 | 2.37 | | 71.05 | 138.47 | 0.00 | 0.000 | 0.000 |
| 9/30/1970 | 26.48 | 64.92 | 2.45 | | 71.84 | 140.42 | 0.00 | 0.000 | 0.000 |
| 10/31/1970 | 25.90 | 66.64 | 2.57 | | 72.65 | 142.48 | 0.00 | 0.000 | 0.000 |
| 11/30/1970 | 26.23 | 68.31 | 2.60 | | 73.43 | 144.53 | 0.00 | 0.000 | 0.000 |
| 12/31/1970 | 26.46 | 65.36 | 2.47 | | 74.25 | 146.56 | 0.00 | 0.000 | 0.000 |
| 1/31/1971 | 25.26 | 64.29 | 2.54 | | 75.04 | 148.55 | 0.00 | 0.000 | 0.000 |
| 2/28/1971 | 24.71 | 65.44 | 2.65 | | 75.73 | 150.38 | 0.00 | 0.000 | 0.000 |
| 3/31/1971 | 23.63 | 62.47 | 2.64 | | 76.46 | 152.32 | 0.00 | 0.000 | 0.000 |
| 4/30/1971 | 22.15 | 64.67 | 2.92 | | 77.12 | 154.26 | 0.00 | 0.000 | 0.000 |
| 5/31/1971 | 21.98 | 66.27 | 3.02 | | 77.81 | 156.32 | 0.00 | 0.000 | 0.000 |
| 6/30/1971 | 21.47 | 64.74 | 3.02 | | 78.45 | 158.26 | 0.00 | 0.000 | 0.000 |
| 7/31/1971 | 20.37 | 64.02 | 3.14 | | 79.08 | 160.24 | 0.00 | 0.000 | 0.000 |
| 8/31/1971 | 19.86 | 64.26 | 3.24 | | 79.70 | 162.23 | 0.00 | 0.000 | 0.000 |
| 9/30/1971 | 19.66 | 60.19 | 3.06 | | 80.29 | 164.04 | 0.00 | 0.000 | 0.000 |
| 10/31/1971 | 18.48 | 57.15 | 3.09 | | 80.86 | 165.81 | 0.00 | 0.000 | 0.000 |
| 11/30/1971 | 17.60 | 57.44 | 3.26 | | 81.39 | 167.53 | 0.00 | 0.000 | 0.000 |
| 12/31/1971 | 16.56 | 57.46 | 3.47 | | 81.90 | 169.32 | 0.00 | 0.000 | 0.000 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1972 | 14.34 | 49.23 | 3.43 | | 82.34 | 170.84 | 0.00 | 0.000 | 0.000 |
| 2/29/1972 | 13.17 | 48.43 | 3.68 | | 82.73 | 172.25 | 0.00 | 0.000 | 0.000 |
| 3/31/1972 | 12.90 | 44.12 | 3.42 | | 83.13 | 173.61 | 0.00 | 0.000 | 0.000 |
| 4/30/1972 | 12.53 | 42.44 | 3.39 | | 83.50 | 174.89 | 0.00 | 0.000 | 0.000 |
| 5/31/1972 | 12.93 | 44.37 | 3.43 | | 83.90 | 176.26 | 0.00 | 0.000 | 0.000 |
| 6/30/1972 | 13.84 | 46.72 | 3.38 | | 84.32 | 177.66 | 0.00 | 0.000 | 0.000 |
| 7/31/1972 | 14.60 | 50.90 | 3.49 | | 84.77 | 179.24 | 0.00 | 0.000 | 0.000 |
| 8/31/1972 | 16.04 | 58.07 | 3.62 | | 85.27 | 181.04 | 0.00 | 0.000 | 0.000 |
| 9/30/1972 | 15.79 | 58.95 | 3.73 | | 85.74 | 182.81 | 0.00 | 0.000 | 0.000 |
| 10/31/1972 | 16.38 | 51.75 | 3.16 | | 86.25 | 184.41 | 0.00 | 0.000 | 0.000 |
| 11/30/1972 | 15.37 | 54.75 | 3.56 | 64.16 | 86.71 | 186.06 | 1.92 | 1.084 | 0.009 |
| 12/31/1972 | 17.77 | 54.71 | 3.08 | 130.01 | 87.26 | 187.75 | 5.96 | 2.172 | 0.028 |
| 1/31/1973 | 17.13 | 50.58 | 2.95 | 131.35 | 87.79 | 189.32 | 10.03 | 2.365 | 0.047 |
| 2/28/1973 | 16.02 | 55.46 | 3.46 | 149.76 | 88.24 | 190.87 | 14.22 | 2.492 | 0.066 |
| 3/31/1973 | 14.41 | 46.61 | 3.23 | 175.43 | 88.69 | 192.32 | 19.66 | 3.455 | 0.090 |
| 4/30/1973 | 14.48 | 49.68 | 3.43 | 170.55 | 89.12 | 193.81 | 24.78 | 3.166 | 0.113 |
| 5/31/1973 | 13.35 | 50.80 | 3.80 | 166.46 | 89.54 | 195.38 | 29.94 | 3.045 | 0.135 |
| 6/30/1973 | 12.40 | 45.51 | 3.67 | 168.77 | 89.91 | 196.75 | 35.00 | 3.438 | 0.157 |
| 7/31/1973 | 11.99 | 42.81 | 3.57 | 172.57 | 90.28 | 198.08 | 40.35 | 3.729 | 0.180 |
| 8/31/1973 | 12.65 | 43.78 | 3.46 | 172.85 | 90.67 | 199.43 | 45.71 | 3.644 | 0.203 |
| 9/30/1973 | 15.40 | 51.30 | 3.33 | 177.76 | 91.13 | 200.97 | 51.04 | 3.189 | 0.225 |
| 10/31/1973 | 16.51 | 61.44 | 3.72 | 182.26 | 91.65 | 202.88 | 56.69 | 2.752 | 0.247 |
| 11/30/1973 | 16.11 | 57.36 | 3.56 | 236.22 | 92.13 | 204.60 | 63.78 | 3.809 | 0.276 |
| 12/31/1973 | 14.27 | 55.29 | 3.87 | 241.22 | 92.57 | 206.31 | 71.25 | 4.060 | 0.306 |
| 1/31/1974 | 13.80 | 50.61 | 3.67 | 255.58 | 93.00 | 207.88 | 79.18 | 4.681 | 0.337 |
| 2/28/1974 | 11.60 | 46.38 | 4.00 | 258.15 | 93.32 | 209.18 | 86.41 | 5.191 | 0.366 |
| 3/31/1974 | 13.71 | 52.03 | 3.80 | 250.79 | 93.75 | 210.79 | 94.18 | 4.479 | 0.396 |
| 4/30/1974 | 15.21 | 56.48 | 3.71 | 254.83 | 94.21 | 212.49 | 101.82 | 4.186 | 0.425 |
| 5/31/1974 | 14.43 | 55.46 | 3.84 | 266.65 | 94.65 | 214.21 | 110.09 | 4.472 | 0.456 |
| 6/30/1974 | 13.98 | 55.98 | 4.01 | 275.40 | 95.07 | 215.89 | 118.35 | 4.588 | 0.486 |
| 7/31/1974 | 12.72 | 46.32 | 3.64 | 245.52 | 95.47 | 217.32 | 125.96 | 4.911 | 0.514 |
| 8/31/1974 | 13.44 | 56.76 | 4.22 | 246.24 | 95.88 | 219.08 | 133.60 | 4.061 | 0.541 |
| 9/30/1974 | 14.01 | 53.62 | 3.83 | 264.87 | 96.30 | 220.69 | 141.54 | 4.592 | 0.569 |
| 10/31/1974 | 14.28 | 51.72 | 3.62 | 240.01 | 96.75 | 222.29 | 148.98 | 4.297 | 0.595 |
| 11/30/1974 | 14.64 | 57.21 | 3.91 | 235.09 | 97.19 | 224.01 | 156.04 | 3.826 | 0.619 |
| 12/31/1974 | 14.74 | 59.51 | 4.04 | 236.06 | 97.64 | 225.85 | 163.35 | 3.702 | 0.643 |
| 1/31/1975 | 13.96 | 61.55 | 4.41 | 213.42 | 98.08 | 227.76 | 169.97 | 3.254 | 0.664 |
| 2/28/1975 | 13.31 | 53.78 | 4.04 | 203.11 | 98.45 | 229.27 | 175.66 | 3.524 | 0.682 |
| 3/31/1975 | 12.89 | 58.75 | 4.56 | 190.79 | 98.85 | 231.09 | 181.57 | 3.054 | 0.699 |
| 4/30/1975 | 11.85 | 51.00 | 4.30 | 162.11 | 99.20 | 232.62 | 186.44 | 2.979 | 0.713 |
| 5/31/1975 | 11.93 | 50.97 | 4.27 | 161.96 | 99.57 | 234.20 | 191.46 | 2.976 | 0.728 |
| 6/30/1975 | 11.80 | 50.56 | 4.29 | 159.02 | 99.93 | 235.72 | 196.23 | 2.947 | 0.742 |
| 7/31/1975 | 11.93 | 52.80 | 4.43 | 146.85 | 100.30 | 237.35 | 200.78 | 2.611 | 0.754 |
| 8/31/1975 | 11.68 | 53.74 | 4.60 | 184.72 | 100.66 | 239.02 | 206.51 | 3.234 | 0.770 |
| 9/30/1975 | 12.21 | 57.75 | 4.73 | 193.63 | 101.02 | 240.75 | 212.31 | 3.160 | 0.786 |
| 10/31/1975 | 11.51 | 62.55 | 5.43 | 197.81 | 101.38 | 242.69 | 218.45 | 3.003 | 0.803 |
| 11/30/1975 | 10.98 | 51.81 | 4.72 | 149.07 | 101.71 | 244.25 | 222.92 | 2.711 | 0.815 |
| 12/31/1975 | 12.46 | 57.21 | 4.59 | 133.79 | 102.10 | 246.02 | 227.07 | 2.200 | 0.824 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1976 | 12.15 | 72.98 | 6.00 | 121.77 | 102.47 | 248.28 | 230.84 | 1.592 | 0.831 |
| 2/29/1976 | 12.77 | 60.14 | 4.71 | 139.21 | 102.84 | 250.03 | 234.88 | 2.181 | 0.840 |
| 3/31/1976 | 15.43 | 70.58 | 4.57 | 147.54 | 103.32 | 252.21 | 239.45 | 1.966 | 0.849 |
| 4/30/1976 | 10.05 | 61.91 | 6.16 | 80.40 | 103.62 | 254.07 | 241.86 | 1.240 | 0.852 |
| 5/31/1976 | 19.78 | 65.93 | 3.33 | | 104.24 | 256.11 | 241.86 | 0.000 | 0.845 |
| 6/30/1976 | 16.41 | 77.67 | 4.73 | | 104.73 | 258.44 | 241.86 | 0.000 | 0.838 |
| 7/31/1976 | 17.47 | 73.85 | 4.23 | 130.37 | 105.27 | 260.73 | 245.90 | 1.652 | 0.845 |
| 8/31/1976 | 18.63 | 83.06 | 4.46 | 169.64 | 105.85 | 263.31 | 251.16 | 1.918 | 0.855 |
| 9/30/1976 | 19.71 | 81.67 | 4.14 | 149.77 | 106.44 | 265.76 | 255.66 | 1.714 | 0.862 |
| 10/31/1976 | 20.26 | 82.60 | 4.08 | 110.34 | 107.07 | 268.32 | 259.08 | 1.247 | 0.866 |
| 11/30/1976 | 20.33 | 87.16 | 4.29 | 122.26 | 107.68 | 270.93 | 262.75 | 1.314 | 0.870 |
| 12/31/1976 | 16.63 | 81.47 | 4.90 | 142.29 | 108.19 | 273.46 | 267.16 | 1.649 | 0.877 |
| 1/31/1977 | 17.71 | 85.90 | 4.85 | 127.19 | 108.74 | 276.12 | 271.10 | 1.397 | 0.881 |
| 2/28/1977 | 18.27 | 92.06 | 5.04 | 135.61 | 109.25 | 278.70 | 274.90 | 1.393 | 0.886 |
| 3/31/1977 | 19.08 | 102.27 | 5.36 | 127.19 | 109.85 | 281.87 | 278.84 | 1.180 | 0.889 |
| 4/30/1977 | 17.44 | 91.17 | 5.23 | 127.19 | 110.37 | 284.61 | 282.65 | 1.322 | 0.893 |
| 5/31/1977 | 19.47 | 98.09 | 5.04 | 131.16 | 110.97 | 287.65 | 286.72 | 1.265 | 0.897 |
| 6/30/1977 | 20.01 | 96.40 | 4.82 | 136.04 | 111.57 | 290.54 | 290.80 | 1.331 | 0.901 |
| 7/31/1977 | 19.78 | 93.30 | 4.72 | 127.19 | 112.19 | 293.43 | 294.75 | 1.284 | 0.904 |
| 8/31/1977 | 19.57 | 90.09 | 4.60 | 135.14 | 112.79 | 296.22 | 298.93 | 1.411 | 0.909 |
| 9/30/1977 | 19.38 | 96.10 | 4.96 | 127.19 | 113.37 | 299.11 | 302.75 | 1.251 | 0.912 |
| 10/31/1977 | 18.76 | 104.32 | 5.56 | 134.98 | 113.95 | 302.34 | 306.93 | 1.230 | 0.915 |
| 11/30/1977 | 19.29 | 102.39 | 5.31 | 144.52 | 114.53 | 305.41 | 311.27 | 1.339 | 0.919 |
| 12/31/1977 | 15.96 | 96.64 | 6.06 | 150.56 | 115.03 | 308.41 | 315.94 | 1.487 | 0.925 |
| 1/31/1978 | 16.74 | 98.09 | 5.86 | 163.28 | 115.55 | 311.45 | 321.00 | 1.586 | 0.931 |
| 2/28/1978 | 16.48 | 93.96 | 5.70 | 161.21 | 116.01 | 314.08 | 325.51 | 1.633 | 0.936 |
| 3/31/1978 | 17.00 | 101.98 | 6.00 | 158.35 | 116.54 | 317.24 | 330.42 | 1.481 | 0.942 |
| 4/30/1978 | 16.55 | 102.49 | 6.19 | 148.02 | 117.03 | 320.32 | 334.86 | 1.380 | 0.946 |
| 5/31/1978 | 15.81 | 98.09 | 6.20 | 111.29 | 117.52 | 323.36 | 338.31 | 1.084 | 0.947 |
| 6/30/1978 | 16.66 | 99.76 | 5.99 | 112.72 | 118.02 | 326.35 | 341.69 | 1.078 | 0.948 |
| 7/31/1978 | 16.73 | 103.68 | 6.20 | 103.03 | 118.54 | 329.56 | 344.89 | 0.949 | 0.948 |
| 8/31/1978 | 14.41 | 95.99 | 6.66 | 122.90 | 118.99 | 332.54 | 348.70 | 1.227 | 0.950 |
| 9/30/1978 | 15.91 | 109.13 | 6.86 | 127.19 | 119.46 | 335.81 | 352.51 | 1.118 | 0.952 |
| 10/31/1978 | 15.55 | 99.33 | 6.39 | 103.18 | 119.95 | 338.89 | 355.71 | 0.994 | 0.952 |
| 11/30/1978 | 15.53 | 103.60 | 6.67 | 118.86 | 120.41 | 342.00 | 359.28 | 1.100 | 0.953 |
| 12/31/1978 | 13.95 | 106.14 | 7.61 | 111.65 | 120.85 | 345.29 | 362.74 | 1.013 | 0.954 |
| 1/31/1979 | 13.14 | 107.54 | 8.19 | 104.08 | 121.25 | 348.62 | 365.97 | 0.935 | 0.954 |
| 2/28/1979 | 12.50 | 94.75 | 7.58 | 126.01 | 121.60 | 351.28 | 369.49 | 1.281 | 0.956 |
| 3/31/1979 | 14.73 | 102.93 | 6.99 | 106.16 | 122.06 | 354.47 | 372.79 | 0.990 | 0.956 |
| 4/30/1979 | 14.71 | 112.46 | 7.64 | 106.68 | 122.50 | 357.84 | 375.99 | 0.914 | 0.956 |
| 5/31/1979 | 14.32 | 106.52 | 7.44 | 120.51 | 122.94 | 361.14 | 379.72 | 1.089 | 0.957 |
| 6/30/1979 | 13.43 | 108.33 | 8.07 | 118.29 | 123.35 | 364.39 | 383.27 | 1.054 | 0.958 |
| 7/31/1979 | 12.91 | 97.48 | 7.55 | 113.67 | 123.75 | 367.42 | 386.79 | 1.123 | 0.959 |
| 8/31/1979 | 12.87 | 96.53 | 7.50 | 105.57 | 124.15 | 370.41 | 390.07 | 1.053 | 0.960 |
| 9/30/1979 | 12.04 | 90.52 | 7.52 | 130.53 | 124.51 | 373.12 | 393.98 | 1.389 | 0.963 |
| 10/31/1979 | 12.89 | 96.82 | 7.51 | 123.53 | 124.91 | 376.12 | 397.81 | 1.229 | 0.965 |
| 11/30/1979 | 12.86 | 89.25 | 6.94 | 110.02 | 125.29 | 378.80 | 401.11 | 1.183 | 0.966 |
| 12/31/1979 | 13.96 | 94.22 | 6.75 | 130.53 | 125.73 | 381.72 | 405.16 | 1.329 | 0.969 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1980 | 13.41 | 88.11 | 6.57 | 128.30 | 126.14 | 384.45 | 409.14 | 1.395 | 0.972 |
| 2/29/1980 | 13.66 | 87.56 | 6.41 | 122.27 | 126.54 | 386.99 | 412.68 | 1.336 | 0.974 |
| 3/31/1980 | 12.57 | 86.89 | 6.91 | 111.13 | 126.93 | 389.69 | 416.13 | 1.228 | 0.976 |
| 4/30/1980 | 11.46 | 91.37 | 7.97 | 114.41 | 127.27 | 392.43 | 419.56 | 1.208 | 0.977 |
| 5/31/1980 | 12.10 | 105.26 | 8.70 | 120.67 | 127.65 | 395.69 | 423.30 | 1.110 | 0.978 |
| 6/30/1980 | 15.45 | 114.92 | 7.44 | 138.95 | 128.11 | 399.14 | 427.47 | 1.164 | 0.980 |
| 7/31/1980 | 13.99 | 110.54 | 7.90 | 149.29 | 128.54 | 402.57 | 432.10 | 1.303 | 0.983 |
| 8/31/1980 | 13.20 | 92.44 | 7.00 | 124.49 | 128.95 | 405.43 | 435.96 | 1.293 | 0.985 |
| 9/30/1980 | 15.66 | 108.14 | 6.91 | 147.38 | 129.42 | 408.68 | 440.38 | 1.308 | 0.987 |
| 10/31/1980 | 15.35 | 117.70 | 7.67 | 151.68 | 129.90 | 412.32 | 445.08 | 1.242 | 0.989 |
| 11/30/1980 | 15.07 | 114.33 | 7.58 | 161.53 | 130.35 | 415.75 | 449.93 | 1.361 | 0.992 |
| 12/31/1980 | 14.57 | 110.44 | 7.58 | 148.34 | 130.80 | 419.18 | 454.52 | 1.294 | 0.995 |
| 1/31/1981 | 13.58 | 118.13 | 8.70 | 154.21 | 131.22 | 422.84 | 459.30 | 1.263 | 0.997 |
| 2/28/1981 | 13.49 | 116.34 | 8.63 | 135.94 | 131.60 | 426.10 | 463.11 | 1.131 | 0.998 |
| 3/31/1981 | 13.50 | 115.86 | 8.59 | 138.00 | 132.02 | 429.69 | 467.39 | 1.152 | 0.999 |
| 4/30/1981 | 13.08 | 113.42 | 8.67 | 145.95 | 132.41 | 433.09 | 471.77 | 1.245 | 1.001 |
| 5/31/1981 | 10.99 | 115.98 | 10.56 | 135.62 | 132.75 | 436.69 | 475.97 | 1.138 | 1.002 |
| 6/30/1981 | 14.82 | 120.79 | 8.15 | 148.81 | 133.20 | 440.31 | 480.44 | 1.190 | 1.003 |
| 7/31/1981 | 13.68 | 115.44 | 8.44 | 145.15 | 133.62 | 443.89 | 484.94 | 1.216 | 1.005 |
| 8/31/1981 | 13.95 | 126.45 | 9.06 | 152.15 | 134.05 | 447.81 | 489.65 | 1.166 | 1.006 |
| 9/30/1981 | 13.84 | 127.17 | 9.19 | 125.76 | 134.47 | 451.62 | 493.43 | 0.959 | 1.006 |
| 10/31/1981 | 14.03 | 127.45 | 9.08 | 143.09 | 134.90 | 455.57 | 497.86 | 1.088 | 1.007 |
| 11/30/1981 | 13.72 | 128.73 | 9.38 | 147.70 | 135.32 | 459.44 | 502.29 | 1.113 | 1.007 |
| 12/31/1981 | 13.64 | 125.83 | 9.23 | 103.35 | 135.74 | 463.34 | 505.50 | 0.796 | 1.006 |
| 1/31/1982 | 13.34 | 120.03 | 9.00 | 123.37 | 136.15 | 467.06 | 509.32 | 0.996 | 1.006 |
| 2/28/1982 | 13.85 | 116.15 | 8.39 | 130.85 | 136.54 | 470.31 | 512.98 | 1.089 | 1.006 |
| 3/31/1982 | 12.89 | 136.00 | 10.55 | 157.24 | 136.94 | 474.53 | 517.86 | 1.125 | 1.007 |
| 4/30/1982 | 12.68 | 133.54 | 10.53 | 167.89 | 137.32 | 478.53 | 522.89 | 1.224 | 1.009 |
| 5/31/1982 | 9.90 | 126.82 | 12.81 | 174.89 | 137.63 | 482.46 | 528.32 | 1.349 | 1.012 |
| 6/30/1982 | 15.94 | 127.47 | 8.00 | 151.20 | 138.10 | 486.29 | 532.85 | 1.145 | 1.013 |
| 7/31/1982 | 13.25 | 130.73 | 9.87 | 155.01 | 138.52 | 490.34 | 537.66 | 1.152 | 1.014 |
| 8/31/1982 | 12.51 | 132.44 | 10.59 | 107.95 | 138.90 | 494.45 | 541.00 | 0.793 | 1.012 |
| 9/30/1982 | 13.22 | 133.52 | 10.10 | 134.98 | 139.30 | 498.45 | 545.05 | 0.983 | 1.012 |
| 10/31/1982 | 12.65 | 125.64 | 9.93 | 151.83 | 139.69 | 502.35 | 549.76 | 1.174 | 1.013 |
| 11/30/1982 | 13.34 | 121.77 | 9.13 | 150.24 | 140.09 | 506.00 | 554.27 | 1.196 | 1.014 |
| 12/31/1982 | 13.03 | 131.07 | 10.06 | 152.31 | 140.50 | 510.06 | 558.99 | 1.130 | 1.015 |
| 1/31/1983 | 11.89 | 130.75 | 11.00 | 151.99 | 140.86 | 514.12 | 563.70 | 1.133 | 1.016 |
| 2/28/1983 | 11.46 | 132.19 | 11.54 | 161.85 | 141.19 | 517.82 | 568.23 | 1.194 | 1.017 |
| 3/31/1983 | 11.26 | 128.75 | 11.43 | 156.60 | 141.53 | 521.81 | 573.09 | 1.186 | 1.018 |
| 4/30/1983 | 11.17 | 127.31 | 11.40 | 167.89 | 141.87 | 525.63 | 578.12 | 1.286 | 1.020 |
| 5/31/1983 | 11.88 | 127.95 | 10.77 | 160.10 | 142.24 | 529.60 | 583.09 | 1.219 | 1.022 |
| 6/30/1983 | 11.38 | 116.70 | 10.25 | 177.59 | 142.58 | 533.10 | 588.42 | 1.480 | 1.025 |
| 7/31/1983 | 12.23 | 113.58 | 9.29 | 126.23 | 142.96 | 536.62 | 592.33 | 1.078 | 1.025 |
| 8/31/1983 | 12.01 | 134.05 | 11.16 | 141.34 | 143.33 | 540.77 | 596.71 | 1.028 | 1.025 |
| 9/30/1983 | 11.82 | 132.25 | 11.19 | 140.70 | 143.69 | 544.74 | 600.93 | 1.037 | 1.025 |
| 10/31/1983 | 12.20 | 134.46 | 11.02 | 138.00 | 144.06 | 548.91 | 605.21 | 1.000 | 1.025 |
| 11/30/1983 | 11.28 | 137.89 | 12.23 | 163.60 | 144.40 | 553.05 | 610.12 | 1.159 | 1.026 |
| 12/31/1983 | 11.28 | 140.23 | 12.43 | 171.07 | 144.75 | 557.39 | 615.42 | 1.192 | 1.027 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1984 | 11.32 | 136.95 | 12.10 | 179.81 | 145.10 | 561.64 | 620.99 | 1.282 | 1.029 |
| 2/29/1984 | 11.18 | 142.21 | 12.71 | 174.89 | 145.43 | 565.76 | 626.07 | 1.202 | 1.030 |
| 3/31/1984 | 11.12 | 136.06 | 12.23 | 181.41 | 145.77 | 569.98 | 631.69 | 1.302 | 1.032 |
| 4/30/1984 | 11.12 | 137.10 | 12.32 | 182.36 | 146.11 | 574.09 | 637.16 | 1.300 | 1.034 |
| 5/31/1984 | 10.88 | 131.94 | 12.12 | 177.43 | 146.44 | 578.18 | 642.66 | 1.313 | 1.036 |
| 6/30/1984 | 10.61 | 133.40 | 12.57 | 170.91 | 146.76 | 582.18 | 647.79 | 1.252 | 1.037 |
| 7/31/1984 | 11.00 | 144.72 | 13.16 | 168.53 | 147.10 | 586.67 | 653.01 | 1.139 | 1.038 |
| 8/31/1984 | 10.66 | 141.79 | 13.30 | 112.25 | 147.43 | 591.07 | 656.49 | 0.775 | 1.036 |
| 9/30/1984 | 10.92 | 142.12 | 13.02 | 185.53 | 147.76 | 595.33 | 662.06 | 1.277 | 1.038 |
| 10/31/1984 | 10.74 | 132.78 | 12.37 | 144.36 | 148.09 | 599.45 | 666.53 | 1.062 | 1.038 |
| 11/30/1984 | 10.47 | 133.53 | 12.76 | 184.42 | 148.41 | 603.45 | 672.07 | 1.350 | 1.040 |
| 12/31/1984 | 9.85 | 172.44 | 17.51 | 162.80 | 148.71 | 608.80 | 677.11 | 0.929 | 1.039 |
| 1/31/1985 | 10.42 | 177.33 | 17.02 | 184.11 | 149.03 | 614.30 | 682.82 | 1.021 | 1.039 |
| 2/28/1985 | 10.34 | 138.39 | 13.39 | 177.91 | 149.32 | 618.17 | 687.80 | 1.258 | 1.040 |
| 3/31/1985 | 10.43 | 176.37 | 16.92 | 172.66 | 149.65 | 623.64 | 693.15 | 0.963 | 1.039 |
| 4/30/1985 | 9.52 | 177.03 | 18.60 | 182.51 | 149.93 | 628.95 | 698.63 | 1.015 | 1.039 |
| 5/31/1985 | 11.25 | 113.41 | 10.08 | 187.61 | 150.28 | 632.46 | 704.45 | 1.608 | 1.042 |
| 6/30/1985 | 10.40 | 108.83 | 10.46 | 162.96 | 150.59 | 635.73 | 709.33 | 1.457 | 1.044 |
| 7/31/1985 | 11.15 | 106.00 | 9.51 | 181.24 | 150.94 | 639.02 | 714.95 | 1.659 | 1.047 |
| 8/31/1985 | 10.82 | 107.55 | 9.94 | 187.29 | 151.27 | 642.35 | 720.76 | 1.692 | 1.051 |
| 9/30/1985 | 10.84 | 109.33 | 10.09 | 190.46 | 151.60 | 645.63 | 726.47 | 1.693 | 1.054 |
| 10/31/1985 | 10.56 | 111.70 | 10.58 | 189.98 | 151.93 | 649.09 | 732.36 | 1.656 | 1.057 |
| 11/30/1985 | 11.57 | 114.11 | 9.87 | 177.75 | 152.27 | 652.52 | 737.69 | 1.513 | 1.059 |
| 12/31/1985 | 9.37 | 103.76 | 11.07 | 166.14 | 152.56 | 655.73 | 742.84 | 1.560 | 1.061 |
| 1/31/1986 | 10.30 | 101.52 | 9.86 | 188.11 | 152.88 | 658.88 | 748.68 | 1.800 | 1.065 |
| 2/28/1986 | 10.27 | 103.47 | 10.08 | 187.95 | 153.17 | 661.78 | 753.94 | 1.766 | 1.068 |
| 3/31/1986 | 7.69 | 92.48 | 12.02 | 141.20 | 153.41 | 664.64 | 758.32 | 1.491 | 1.070 |
| 4/30/1986 | 10.29 | 98.55 | 9.58 | 157.42 | 153.72 | 667.60 | 763.04 | 1.551 | 1.072 |
| 5/31/1986 | 10.37 | 110.83 | 10.69 | 172.21 | 154.04 | 671.04 | 768.38 | 1.513 | 1.074 |
| 6/30/1986 | 10.84 | 117.17 | 10.81 | 175.23 | 154.37 | 674.55 | 773.63 | 1.457 | 1.076 |
| 7/31/1986 | 10.47 | 123.20 | 11.77 | 178.41 | 154.69 | 678.37 | 779.16 | 1.413 | 1.078 |
| 8/31/1986 | 10.48 | 124.74 | 11.90 | 181.43 | 155.01 | 682.24 | 784.79 | 1.420 | 1.079 |
| 9/30/1986 | 10.22 | 119.35 | 11.68 | 188.58 | 155.32 | 685.82 | 790.45 | 1.542 | 1.082 |
| 10/31/1986 | 9.88 | 116.90 | 11.83 | 167.44 | 155.63 | 689.44 | 795.64 | 1.398 | 1.083 |
| 11/30/1986 | 10.16 | 117.96 | 11.61 | 188.43 | 155.93 | 692.98 | 801.29 | 1.559 | 1.086 |
| 12/31/1986 | 9.88 | 123.13 | 12.46 | 177.93 | 156.24 | 696.80 | 806.81 | 1.412 | 1.087 |
| 1/31/1987 | 10.39 | 122.23 | 11.77 | 196.06 | 156.56 | 700.59 | 812.88 | 1.566 | 1.090 |
| 2/28/1987 | 10.04 | 114.85 | 11.44 | 183.38 | 156.84 | 703.80 | 818.02 | 1.557 | 1.092 |
| 3/31/1987 | 10.09 | 118.44 | 11.74 | 176.55 | 157.15 | 707.47 | 823.49 | 1.455 | 1.094 |
| 4/30/1987 | 9.36 | 105.36 | 11.25 | 144.61 | 157.44 | 710.63 | 827.83 | 1.338 | 1.095 |
| 5/31/1987 | 7.45 | 94.06 | 12.63 | 142.86 | 157.67 | 713.55 | 832.26 | 1.485 | 1.096 |
| 6/30/1987 | 9.70 | 118.67 | 12.24 | 169.24 | 157.96 | 717.11 | 837.33 | 1.393 | 1.098 |
| 7/31/1987 | 9.82 | 125.24 | 12.76 | 186.40 | 158.26 | 720.99 | 843.11 | 1.455 | 1.100 |
| 8/31/1987 | 9.29 | 123.01 | 13.24 | 169.72 | 158.55 | 724.81 | 848.37 | 1.350 | 1.101 |
| 9/30/1987 | 8.83 | 128.34 | 14.53 | 197.05 | 158.81 | 728.66 | 854.29 | 1.505 | 1.103 |
| 10/31/1987 | 9.45 | 132.81 | 14.05 | 182.75 | 159.11 | 732.77 | 859.95 | 1.348 | 1.104 |
| 11/30/1987 | 8.68 | 128.56 | 14.82 | 192.28 | 159.37 | 736.63 | 865.72 | 1.467 | 1.106 |
| 12/31/1987 | 8.73 | 127.92 | 14.65 | 182.20 | 159.64 | 740.60 | 871.37 | 1.397 | 1.108 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1988 | 8.17 | 122.00 | 14.93 | 185.77 | 159.89 | 744.38 | 877.13 | 1.494 | 1.109 |
| 2/29/1988 | 7.98 | 118.72 | 14.87 | 184.66 | 160.12 | 747.82 | 882.48 | 1.526 | 1.111 |
| 3/31/1988 | 8.36 | 135.57 | 16.22 | 201.02 | 160.38 | 752.02 | 888.71 | 1.457 | 1.113 |
| 4/30/1988 | 8.19 | 130.77 | 15.98 | 194.03 | 160.63 | 755.95 | 894.53 | 1.457 | 1.115 |
| 5/31/1988 | 8.23 | 125.34 | 15.24 | 183.23 | 160.88 | 759.83 | 900.21 | 1.435 | 1.116 |
| 6/30/1988 | 8.37 | 127.38 | 15.23 | 164.95 | 161.13 | 763.65 | 905.16 | 1.271 | 1.117 |
| 7/31/1988 | 8.22 | 134.45 | 16.36 | 182.75 | 161.39 | 767.82 | 910.83 | 1.336 | 1.118 |
| 8/31/1988 | 8.03 | 133.14 | 16.58 | 183.70 | 161.64 | 771.95 | 916.52 | 1.356 | 1.119 |
| 9/30/1988 | 7.91 | 128.49 | 16.24 | 188.47 | 161.87 | 775.80 | 922.18 | 1.441 | 1.121 |
| 10/31/1988 | 7.60 | 121.80 | 16.03 | 186.08 | 162.11 | 779.58 | 927.95 | 1.501 | 1.123 |
| 11/30/1988 | 8.09 | 124.66 | 15.40 | 192.76 | 162.35 | 783.32 | 933.73 | 1.518 | 1.125 |
| 12/31/1988 | 7.91 | 131.78 | 16.66 | 180.36 | 162.60 | 787.40 | 939.32 | 1.345 | 1.126 |
| 1/31/1989 | 7.61 | 128.36 | 16.87 | 194.03 | 162.83 | 791.38 | 945.33 | 1.486 | 1.127 |
| 2/28/1989 | 7.39 | 121.48 | 16.43 | 159.55 | 163.04 | 794.78 | 949.80 | 1.291 | 1.128 |
| 3/31/1989 | 6.87 | 118.87 | 17.30 | 168.92 | 163.25 | 798.47 | 955.04 | 1.398 | 1.129 |
| 4/30/1989 | 6.89 | 120.25 | 17.45 | 167.33 | 163.46 | 802.08 | 960.06 | 1.369 | 1.130 |
| 5/31/1989 | 5.22 | 82.63 | 15.82 | 118.47 | 163.62 | 804.64 | 963.73 | 1.408 | 1.131 |
| 6/30/1989 | 6.51 | 109.74 | 16.85 | 164.31 | 163.82 | 807.93 | 968.66 | 1.472 | 1.133 |
| 7/31/1989 | 7.23 | 115.20 | 15.94 | 173.53 | 164.04 | 811.50 | 974.04 | 1.480 | 1.134 |
| 8/31/1989 | 7.43 | 87.12 | 11.72 | 121.09 | 164.27 | 814.20 | 977.79 | 1.356 | 1.135 |
| 9/30/1989 | 7.02 | 103.99 | 14.82 | 163.59 | 164.48 | 817.32 | 982.70 | 1.543 | 1.136 |
| 10/31/1989 | 6.41 | 104.15 | 16.24 | 159.78 | 164.68 | 820.55 | 987.65 | 1.507 | 1.138 |
| 11/30/1989 | 6.89 | 100.90 | 14.64 | 161.21 | 164.89 | 823.58 | 992.49 | 1.567 | 1.139 |
| 12/31/1989 | 5.87 | 96.27 | 16.40 | 130.05 | 165.07 | 826.56 | 996.52 | 1.327 | 1.140 |
| 1/31/1990 | 5.96 | 100.41 | 16.84 | 121.14 | 165.26 | 829.68 | 1000.28 | 1.186 | 1.140 |
| 2/28/1990 | 6.13 | 101.01 | 16.49 | 103.81 | 165.43 | 832.50 | 1003.18 | 1.010 | 1.140 |
| 3/31/1990 | 6.11 | 98.79 | 16.18 | 95.87 | 165.62 | 835.57 | 1006.16 | 0.953 | 1.139 |
| 4/30/1990 | 5.90 | 104.13 | 17.64 | 101.91 | 165.79 | 838.69 | 1009.21 | 0.963 | 1.138 |
| 5/31/1990 | 6.07 | 107.54 | 17.73 | 136.40 | 165.98 | 842.02 | 1013.44 | 1.248 | 1.139 |
| 6/30/1990 | 6.29 | 110.24 | 17.51 | 152.46 | 166.17 | 845.33 | 1018.02 | 1.361 | 1.139 |
| 7/31/1990 | 6.00 | 105.90 | 17.66 | 141.49 | 166.36 | 848.61 | 1022.40 | 1.315 | 1.140 |
| 8/31/1990 | 6.19 | 106.24 | 17.17 | 141.97 | 166.55 | 851.91 | 1026.80 | 1.314 | 1.141 |
| 9/30/1990 | 6.51 | 110.04 | 16.90 | 133.86 | 166.74 | 855.21 | 1030.82 | 1.196 | 1.141 |
| 10/31/1990 | 6.45 | 121.77 | 18.89 | 163.75 | 166.94 | 858.98 | 1035.89 | 1.324 | 1.142 |
| 11/30/1990 | 6.49 | 127.37 | 19.62 | 185.85 | 167.14 | 862.80 | 1041.47 | 1.438 | 1.143 |
| 12/31/1990 | 6.22 | 117.13 | 18.82 | 157.71 | 167.33 | 866.44 | 1046.36 | 1.326 | 1.144 |
| 1/31/1991 | 5.78 | 109.73 | 18.99 | 135.13 | 167.51 | 869.84 | 1050.55 | 1.213 | 1.144 |
| 2/28/1991 | 5.33 | 94.39 | 17.71 | 157.39 | 167.66 | 872.48 | 1054.95 | 1.641 | 1.145 |
| 3/31/1991 | 6.00 | 105.40 | 17.57 | 170.58 | 167.85 | 875.75 | 1060.24 | 1.592 | 1.147 |
| 4/30/1991 | 5.63 | 108.93 | 19.33 | 175.19 | 168.01 | 879.02 | 1065.50 | 1.585 | 1.149 |
| 5/31/1991 | 5.56 | 101.80 | 18.32 | 122.10 | 168.19 | 882.17 | 1069.28 | 1.181 | 1.149 |
| 6/30/1991 | 5.53 | 105.16 | 19.02 | 176.47 | 168.35 | 885.33 | 1074.58 | 1.653 | 1.150 |
| 7/31/1991 | 5.49 | 109.11 | 19.86 | 140.85 | 168.52 | 888.71 | 1078.94 | 1.272 | 1.151 |
| 8/31/1991 | 5.62 | 116.22 | 20.68 | 186.01 | 168.70 | 892.31 | 1084.71 | 1.578 | 1.153 |
| 9/30/1991 | 5.69 | 107.02 | 18.80 | 157.86 | 168.87 | 895.52 | 1089.45 | 1.453 | 1.154 |
| 10/31/1991 | 5.21 | 111.75 | 21.46 | 160.41 | 169.03 | 898.99 | 1094.42 | 1.416 | 1.155 |
| 11/30/1991 | 5.57 | 110.70 | 19.88 | 155.80 | 169.20 | 902.31 | 1099.09 | 1.387 | 1.155 |
| 12/31/1991 | 5.62 | 107.39 | 19.10 | 163.27 | 169.37 | 905.64 | 1104.15 | 1.498 | 1.157 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1992 | 5.26 | 117.16 | 22.28 | 177.26 | 169.53 | 909.27 | 1109.65 | 1.494 | 1.158 |
| 2/29/1992 | 5.31 | 107.14 | 20.19 | 166.45 | 169.69 | 912.38 | 1114.48 | 1.532 | 1.159 |
| 3/31/1992 | 5.35 | 98.07 | 18.33 | 169.63 | 169.85 | 915.42 | 1119.73 | 1.703 | 1.161 |
| 4/30/1992 | 5.73 | 95.05 | 16.59 | 167.56 | 170.03 | 918.27 | 1124.76 | 1.733 | 1.163 |
| 5/31/1992 | 5.13 | 89.06 | 17.37 | 148.33 | 170.18 | 921.03 | 1129.36 | 1.638 | 1.164 |
| 6/30/1992 | 5.04 | 114.86 | 22.81 | 158.34 | 170.34 | 924.47 | 1134.11 | 1.361 | 1.165 |
| 7/31/1992 | 5.38 | 127.17 | 23.64 | 163.59 | 170.50 | 928.42 | 1139.18 | 1.271 | 1.165 |
| 8/31/1992 | 5.35 | 122.55 | 22.92 | 163.59 | 170.67 | 932.22 | 1144.25 | 1.318 | 1.166 |
| 9/30/1992 | 5.22 | 112.28 | 21.52 | 142.28 | 170.82 | 935.58 | 1148.52 | 1.250 | 1.166 |
| 10/31/1992 | 5.03 | 91.82 | 18.25 | 161.05 | 170.98 | 938.43 | 1153.51 | 1.727 | 1.168 |
| 11/30/1992 | 5.08 | 115.17 | 22.69 | 155.32 | 171.13 | 941.88 | 1158.17 | 1.332 | 1.168 |
| 12/31/1992 | 4.94 | 68.53 | 13.88 | 75.99 | 171.29 | 944.01 | 1160.53 | 1.086 | 1.168 |
| 1/31/1993 | 5.23 | 105.74 | 20.22 | 139.58 | 171.45 | 947.29 | 1164.86 | 1.301 | 1.169 |
| 2/28/1993 | 4.71 | 113.28 | 24.07 | 164.38 | 171.58 | 950.46 | 1169.46 | 1.434 | 1.169 |
| 3/31/1993 | 4.86 | 112.57 | 23.15 | 185.05 | 171.73 | 953.95 | 1175.20 | 1.624 | 1.171 |
| 4/30/1993 | 5.04 | 112.68 | 22.33 | 173.45 | 171.88 | 957.33 | 1180.40 | 1.520 | 1.172 |
| 5/31/1993 | 4.94 | 113.60 | 22.99 | 122.73 | 172.03 | 960.85 | 1184.20 | 1.067 | 1.172 |
| 6/30/1993 | 5.01 | 112.58 | 22.46 | 108.74 | 172.19 | 964.23 | 1187.47 | 0.954 | 1.171 |
| 7/31/1993 | 4.86 | 117.29 | 24.15 | 110.49 | 172.34 | 967.86 | 1190.89 | 0.931 | 1.170 |
| 8/31/1993 | 5.05 | 106.01 | 21.01 | 169.63 | 172.49 | 971.15 | 1196.15 | 1.578 | 1.172 |
| 9/30/1993 | 4.83 | 108.65 | 22.50 | 185.05 | 172.64 | 974.41 | 1201.70 | 1.682 | 1.173 |
| 10/31/1993 | 4.92 | 116.83 | 23.73 | 180.76 | 172.79 | 978.03 | 1207.30 | 1.529 | 1.174 |
| 11/30/1993 | 4.90 | 107.10 | 21.84 | 173.92 | 172.94 | 981.24 | 1212.52 | 1.603 | 1.176 |
| 12/31/1993 | 4.71 | 101.96 | 21.64 | 114.94 | 173.08 | 984.41 | 1216.09 | 1.112 | 1.176 |
| 1/31/1994 | 4.19 | 85.98 | 20.53 | 117.33 | 173.21 | 987.07 | 1219.72 | 1.346 | 1.176 |
| 2/28/1994 | 5.09 | 104.46 | 20.51 | 168.52 | 173.36 | 990.00 | 1224.44 | 1.591 | 1.177 |
| 3/31/1994 | 5.02 | 109.79 | 21.87 | 166.29 | 173.51 | 993.40 | 1229.60 | 1.495 | 1.178 |
| 4/30/1994 | 4.74 | 103.10 | 21.74 | 170.90 | 173.65 | 996.49 | 1234.72 | 1.636 | 1.180 |
| 5/31/1994 | 3.63 | 88.99 | 24.52 | 168.20 | 173.77 | 999.25 | 1239.94 | 1.868 | 1.181 |
| 6/30/1994 | 4.32 | 114.43 | 26.52 | 183.78 | 173.90 | 1002.68 | 1245.45 | 1.589 | 1.183 |
| 7/31/1994 | 4.54 | 116.92 | 25.75 | 176.78 | 174.04 | 1006.31 | 1250.93 | 1.495 | 1.184 |
| 8/31/1994 | 4.64 | 115.08 | 24.78 | 177.10 | 174.18 | 1009.88 | 1256.42 | 1.521 | 1.185 |
| 9/30/1994 | 4.64 | 120.33 | 25.93 | 174.40 | 174.32 | 1013.49 | 1261.65 | 1.433 | 1.186 |
| 10/31/1994 | 4.86 | 121.33 | 24.97 | 181.24 | 174.47 | 1017.25 | 1267.27 | 1.477 | 1.187 |
| 11/30/1994 | 4.74 | 113.63 | 23.97 | 168.04 | 174.61 | 1020.66 | 1272.31 | 1.461 | 1.188 |
| 12/31/1994 | 4.44 | 117.08 | 26.38 | 181.08 | 174.75 | 1024.29 | 1277.93 | 1.530 | 1.189 |
| 1/31/1995 | 4.35 | 101.85 | 23.41 | 176.95 | 174.88 | 1027.44 | 1283.41 | 1.716 | 1.191 |
| 2/28/1995 | 3.70 | 97.73 | 26.40 | 193.80 | 174.99 | 1030.18 | 1288.84 | 1.961 | 1.192 |
| 3/31/1995 | 3.60 | 94.99 | 26.37 | 181.08 | 175.10 | 1033.12 | 1294.45 | 1.886 | 1.194 |
| 4/30/1995 | 3.68 | 95.36 | 25.93 | 178.05 | 175.21 | 1035.98 | 1299.79 | 1.847 | 1.196 |
| 5/31/1995 | 3.55 | 97.41 | 27.42 | 175.51 | 175.32 | 1039.00 | 1305.23 | 1.783 | 1.198 |
| 6/30/1995 | 4.44 | 121.68 | 27.38 | 164.54 | 175.45 | 1042.65 | 1310.17 | 1.338 | 1.198 |
| 7/31/1995 | 4.91 | 126.86 | 25.83 | 186.64 | 175.61 | 1046.59 | 1315.96 | 1.455 | 1.199 |
| 8/31/1995 | 5.12 | 139.55 | 27.25 | 192.68 | 175.76 | 1050.91 | 1321.93 | 1.366 | 1.200 |
| 9/30/1995 | 4.88 | 135.57 | 27.81 | 171.22 | 175.91 | 1054.98 | 1327.07 | 1.250 | 1.200 |
| 10/31/1995 | 4.65 | 138.37 | 29.73 | 163.27 | 176.05 | 1059.27 | 1332.13 | 1.169 | 1.200 |
| 11/30/1995 | 4.74 | 141.24 | 29.81 | 195.23 | 176.20 | 1063.51 | 1337.98 | 1.369 | 1.201 |
| 12/31/1995 | 4.20 | 141.06 | 33.63 | 195.07 | 176.33 | 1067.88 | 1344.03 | 1.371 | 1.201 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/1996 | 4.14 | 129.95 | 31.42 | 185.05 | 176.46 | 1071.91 | 1349.77 | 1.411 | 1.202 |
| 2/29/1996 | 4.22 | 125.24 | 29.67 | 187.28 | 176.58 | 1075.54 | 1355.20 | 1.481 | 1.203 |
| 3/31/1996 | 4.20 | 131.60 | 31.37 | 176.46 | 176.71 | 1079.62 | 1360.67 | 1.329 | 1.203 |
| 4/30/1996 | 4.29 | 135.19 | 31.54 | 180.28 | 176.84 | 1083.68 | 1366.08 | 1.321 | 1.204 |
| 5/31/1996 | 3.96 | 112.95 | 28.50 | 175.51 | 176.96 | 1087.18 | 1371.52 | 1.538 | 1.205 |
| 6/30/1996 | 4.33 | 131.37 | 30.35 | 172.02 | 177.09 | 1091.12 | 1376.68 | 1.297 | 1.205 |
| 7/31/1996 | 3.99 | 129.66 | 32.51 | 175.67 | 177.21 | 1095.14 | 1382.12 | 1.343 | 1.206 |
| 8/31/1996 | 3.88 | 124.07 | 31.98 | 182.35 | 177.33 | 1098.98 | 1387.78 | 1.457 | 1.206 |
| 9/30/1996 | 3.76 | 135.37 | 35.97 | 168.68 | 177.45 | 1103.05 | 1392.84 | 1.236 | 1.207 |
| 10/31/1996 | 3.71 | 123.85 | 33.40 | 161.84 | 177.56 | 1106.89 | 1397.85 | 1.296 | 1.207 |
| 11/30/1996 | 3.92 | 127.20 | 32.49 | 185.69 | 177.68 | 1110.70 | 1403.43 | 1.447 | 1.208 |
| 12/31/1996 | 3.86 | 123.12 | 31.89 | 176.47 | 177.80 | 1114.52 | 1408.90 | 1.420 | 1.208 |
| 1/31/1997 | 3.72 | 120.21 | 32.32 | 163.43 | 177.91 | 1118.24 | 1413.96 | 1.347 | 1.209 |
| 2/28/1997 | 3.59 | 118.58 | 33.00 | 177.90 | 178.01 | 1121.56 | 1418.94 | 1.487 | 1.210 |
| 3/31/1997 | 3.71 | 125.20 | 33.73 | 190.30 | 178.13 | 1125.45 | 1424.84 | 1.507 | 1.211 |
| 4/30/1997 | 3.79 | 121.92 | 32.17 | 166.14 | 178.24 | 1129.10 | 1429.83 | 1.351 | 1.211 |
| 5/31/1997 | 3.90 | 121.93 | 31.30 | 160.57 | 178.36 | 1132.88 | 1434.80 | 1.305 | 1.211 |
| 6/30/1997 | 3.64 | 108.31 | 29.74 | 161.84 | 178.47 | 1136.13 | 1439.66 | 1.480 | 1.212 |
| 7/31/1997 | 3.48 | 109.27 | 31.44 | 160.25 | 178.58 | 1139.52 | 1444.63 | 1.453 | 1.213 |
| 8/31/1997 | 3.72 | 91.77 | 24.66 | 128.00 | 178.70 | 1142.37 | 1448.60 | 1.379 | 1.213 |
| 9/30/1997 | 3.61 | 100.86 | 27.93 | 132.27 | 178.80 | 1145.39 | 1452.56 | 1.298 | 1.213 |
| 10/31/1997 | 3.47 | 100.73 | 29.01 | 153.89 | 178.91 | 1148.51 | 1457.33 | 1.513 | 1.214 |
| 11/30/1997 | 3.47 | 82.49 | 23.77 | 126.39 | 179.02 | 1150.99 | 1461.13 | 1.514 | 1.215 |
| 12/31/1997 | 3.49 | 95.71 | 27.40 | 146.74 | 179.12 | 1153.96 | 1465.67 | 1.517 | 1.216 |
| 1/31/1998 | 3.40 | 98.01 | 28.85 | 188.07 | 179.23 | 1156.99 | 1471.50 | 1.900 | 1.217 |
| 2/28/1998 | 3.34 | 90.00 | 26.92 | 167.89 | 179.32 | 1159.51 | 1476.21 | 1.845 | 1.219 |
| 3/31/1998 | 3.46 | 92.48 | 26.69 | 169.95 | 179.43 | 1162.38 | 1481.47 | 1.818 | 1.220 |
| 4/30/1998 | 2.94 | 85.03 | 28.87 | 178.22 | 179.52 | 1164.93 | 1486.82 | 2.075 | 1.222 |
| 5/31/1998 | 2.90 | 91.20 | 31.43 | 162.16 | 179.61 | 1167.76 | 1491.85 | 1.762 | 1.223 |
| 6/30/1998 | 3.01 | 90.45 | 30.08 | 167.41 | 179.70 | 1170.47 | 1496.87 | 1.833 | 1.224 |
| 7/31/1998 | 2.94 | 83.36 | 28.40 | 144.03 | 179.79 | 1173.06 | 1501.33 | 1.710 | 1.226 |
| 8/31/1998 | 3.05 | 86.13 | 28.29 | 170.11 | 179.88 | 1175.73 | 1506.61 | 1.955 | 1.227 |
| 9/30/1998 | 3.00 | 89.24 | 29.78 | 170.90 | 179.97 | 1178.40 | 1511.73 | 1.897 | 1.229 |
| 10/31/1998 | 3.05 | 93.05 | 30.49 | 178.53 | 180.07 | 1181.29 | 1517.27 | 1.901 | 1.230 |
| 11/30/1998 | 3.08 | 97.39 | 31.59 | 175.99 | 180.16 | 1184.21 | 1522.55 | 1.791 | 1.232 |
| 12/31/1998 | 3.00 | 101.24 | 33.75 | 193.64 | 180.25 | 1187.35 | 1528.55 | 1.896 | 1.233 |
| 1/31/1999 | 3.04 | 107.06 | 35.17 | 190.30 | 180.35 | 1190.67 | 1534.45 | 1.763 | 1.235 |
| 2/28/1999 | 2.71 | 81.90 | 30.17 | 157.55 | 180.42 | 1192.96 | 1538.86 | 1.905 | 1.236 |
| 3/31/1999 | 2.84 | 93.37 | 32.87 | 187.75 | 180.51 | 1195.85 | 1544.68 | 1.993 | 1.238 |
| 4/30/1999 | 2.84 | 94.98 | 33.44 | 161.84 | 180.60 | 1198.70 | 1549.54 | 1.689 | 1.239 |
| 5/31/1999 | 2.77 | 88.40 | 31.92 | 188.23 | 180.68 | 1201.44 | 1555.37 | 2.110 | 1.241 |
| 6/30/1999 | 2.51 | 86.73 | 34.51 | 196.50 | 180.76 | 1204.05 | 1561.27 | 2.247 | 1.243 |
| 7/31/1999 | 2.43 | 89.10 | 36.61 | 181.87 | 180.83 | 1206.81 | 1566.91 | 2.025 | 1.244 |
| 8/31/1999 | 2.48 | 94.41 | 38.11 | 190.14 | 180.91 | 1209.74 | 1572.80 | 1.999 | 1.246 |
| 9/30/1999 | 2.48 | 81.96 | 33.00 | 192.52 | 180.99 | 1212.19 | 1578.58 | 2.329 | 1.248 |
| 10/31/1999 | 2.70 | 91.78 | 34.03 | 197.45 | 181.07 | 1215.04 | 1584.70 | 2.133 | 1.250 |
| 11/30/1999 | 2.58 | 90.10 | 34.88 | 211.44 | 181.15 | 1217.74 | 1591.04 | 2.327 | 1.253 |
| 12/31/1999 | 2.67 | 92.21 | 34.54 | 207.63 | 181.23 | 1220.60 | 1597.48 | 2.233 | 1.255 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/2000 | 2.51 | 91.28 | 36.39 | 208.90 | 181.31 | 1223.43 | 1603.95 | 2.271 | 1.257 |
| 2/29/2000 | 2.19 | 75.89 | 34.66 | 202.86 | 181.37 | 1225.63 | 1609.84 | 2.651 | 1.260 |
| 3/31/2000 | 2.44 | 84.47 | 34.66 | 209.69 | 181.45 | 1228.25 | 1616.34 | 2.462 | 1.262 |
| 4/30/2000 | 2.06 | 79.93 | 38.89 | 195.23 | 181.51 | 1230.65 | 1622.19 | 2.425 | 1.264 |
| 5/31/2000 | 1.87 | 72.09 | 38.50 | 201.59 | 181.57 | 1232.88 | 1628.44 | 2.775 | 1.267 |
| 6/30/2000 | 2.16 | 86.91 | 40.26 | 120.19 | 181.63 | 1235.49 | 1632.05 | 1.373 | 1.267 |
| 7/31/2000 | 2.25 | 76.51 | 33.96 | 191.09 | 181.70 | 1237.86 | 1637.97 | 2.476 | 1.269 |
| 8/31/2000 | 1.97 | 74.44 | 37.86 | 188.71 | 181.76 | 1240.17 | 1643.82 | 2.516 | 1.272 |
| 9/30/2000 | 2.05 | 72.73 | 35.54 | 156.12 | 181.82 | 1242.35 | 1648.51 | 2.129 | 1.273 |
| 10/31/2000 | 1.94 | 81.78 | 42.26 | 151.83 | 181.88 | 1244.89 | 1653.21 | 1.844 | 1.274 |
| 11/30/2000 | 2.01 | 80.28 | 39.91 | 145.15 | 181.94 | 1247.29 | 1657.57 | 1.795 | 1.275 |
| 12/31/2000 | 2.05 | 79.70 | 38.91 | 187.44 | 182.01 | 1249.77 | 1663.38 | 2.334 | 1.277 |
| 1/31/2001 | 1.94 | 72.94 | 37.53 | 176.79 | 182.07 | 1252.03 | 1668.86 | 2.405 | 1.279 |
| 2/28/2001 | 1.91 | 70.79 | 36.98 | 184.42 | 182.12 | 1254.01 | 1674.02 | 2.585 | 1.281 |
| 3/31/2001 | 1.84 | 77.95 | 42.43 | 196.97 | 182.18 | 1256.43 | 1680.13 | 2.510 | 1.283 |
| 4/30/2001 | 1.83 | 75.69 | 41.28 | 178.85 | 182.23 | 1258.70 | 1685.49 | 2.347 | 1.285 |
| 5/31/2001 | 1.82 | 68.56 | 37.75 | 149.76 | 182.29 | 1260.82 | 1690.14 | 2.168 | 1.287 |
| 6/30/2001 | 1.72 | 74.80 | 43.44 | 155.80 | 182.34 | 1263.07 | 1694.81 | 2.069 | 1.288 |
| 7/31/2001 | 1.70 | 74.10 | 43.67 | 171.54 | 182.39 | 1265.36 | 1700.13 | 2.300 | 1.290 |
| 8/31/2001 | 1.45 | 68.85 | 47.32 | 186.80 | 182.44 | 1267.50 | 1705.92 | 2.697 | 1.292 |
| 9/30/2001 | 1.68 | 72.66 | 43.21 | 186.64 | 182.49 | 1269.68 | 1711.52 | 2.552 | 1.294 |
| 10/31/2001 | 1.84 | 67.14 | 36.58 | 189.18 | 182.55 | 1271.76 | 1717.38 | 2.796 | 1.297 |
| 11/30/2001 | 1.78 | 66.54 | 37.35 | 193.48 | 182.60 | 1273.75 | 1723.19 | 2.885 | 1.299 |
| 12/31/2001 | 1.78 | 69.64 | 39.15 | 184.33 | 182.65 | 1275.91 | 1728.90 | 2.627 | 1.301 |
| 1/31/2002 | 1.76 | 68.82 | 39.11 | 199.84 | 182.71 | 1278.05 | 1735.10 | 2.883 | 1.304 |
| 2/28/2002 | 1.58 | 75.12 | 47.53 | 206.99 | 182.75 | 1280.15 | 1740.89 | 2.739 | 1.306 |
| 3/31/2002 | 1.61 | 85.80 | 53.14 | 210.96 | 182.80 | 1282.81 | 1747.43 | 2.446 | 1.308 |
| 4/30/2002 | 1.71 | 84.37 | 49.29 | 215.26 | 182.85 | 1285.34 | 1753.89 | 2.536 | 1.311 |
| 5/31/2002 | 1.92 | 89.71 | 46.78 | 194.61 | 182.91 | 1288.12 | 1759.92 | 2.156 | 1.312 |
| 6/30/2002 | 1.87 | 88.27 | 47.29 | 186.54 | 182.97 | 1290.77 | 1765.52 | 2.100 | 1.314 |
| 7/31/2002 | 1.69 | 65.97 | 38.95 | 151.32 | 183.02 | 1292.81 | 1770.21 | 2.277 | 1.315 |
| 8/31/2002 | 1.15 | 27.95 | 24.27 | 110.00 | 183.06 | 1293.68 | 1773.62 | 3.889 | 1.317 |
| 9/30/2002 | 1.18 | 31.48 | 26.60 | 37.42 | 183.09 | 1294.63 | 1774.74 | 1.176 | 1.317 |
| 10/31/2002 | 1.09 | 28.26 | 25.92 | | 183.13 | 1295.50 | 1774.74 | 0.000 | 1.316 |
| 11/30/2002 | 1.49 | 32.32 | 21.76 | | 183.17 | 1296.47 | 1774.74 | 0.000 | 1.315 |
| 12/31/2002 | 8.21 | 112.80 | 13.74 | 113.65 | 183.43 | 1299.97 | 1778.27 | 0.987 | 1.314 |
| 1/31/2003 | 6.70 | 114.53 | 17.10 | 75.43 | 183.63 | 1303.52 | 1780.60 | 0.648 | 1.313 |
| 2/28/2003 | 6.00 | 125.01 | 20.84 | 117.46 | 183.80 | 1307.02 | 1783.89 | 0.927 | 1.312 |
| 3/31/2003 | 5.64 | 118.88 | 21.09 | 112.94 | 183.98 | 1310.70 | 1787.39 | 0.937 | 1.310 |
| 4/30/2003 | 5.56 | 116.24 | 20.92 | 90.69 | 184.14 | 1314.19 | 1790.11 | 0.770 | 1.309 |
| 5/31/2003 | 5.59 | 120.02 | 21.47 | 117.84 | 184.32 | 1317.91 | 1793.77 | 0.969 | 1.308 |
| 6/30/2003 | 5.47 | 119.09 | 21.79 | 114.70 | 184.48 | 1321.48 | 1797.21 | 0.951 | 1.307 |
| 7/31/2003 | 5.33 | 117.00 | 21.93 | 112.52 | 184.65 | 1325.11 | 1800.70 | 0.949 | 1.306 |
| 8/31/2003 | 5.38 | 113.24 | 21.05 | 31.68 | 184.81 | 1328.62 | 1801.68 | 0.276 | 1.304 |
| 9/30/2003 | 5.64 | 110.38 | 19.59 | | 184.98 | 1331.93 | 1801.68 | 0.000 | 1.300 |
| 10/31/2003 | 9.47 | 135.71 | 14.33 | 29.35 | 185.28 | 1336.14 | 1802.59 | 0.212 | 1.297 |
| 11/30/2003 | 26.48 | 204.11 | 7.71 | 122.60 | 186.07 | 1342.26 | 1806.27 | 0.579 | 1.294 |
| 12/31/2003 | 29.91 | 293.06 | 9.80 | 130.23 | 187.00 | 1351.35 | 1810.30 | 0.432 | 1.288 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/2004 | 28.80 | 314.24 | 10.91 | 122.29 | 187.89 | 1361.09 | 1814.09 | 0.379 | 1.282 |
| 2/29/2004 | 27.13 | 301.57 | 11.12 | 261.69 | 188.68 | 1369.83 | 1821.68 | 0.846 | 1.279 |
| 3/31/2004 | 30.15 | 413.90 | 13.73 | 311.53 | 189.61 | 1382.67 | 1831.34 | 0.737 | 1.274 |
| 4/30/2004 | 27.70 | 438.46 | 15.83 | 319.42 | 190.44 | 1395.82 | 1840.92 | 0.715 | 1.269 |
| 5/31/2004 | 24.08 | 417.38 | 17.33 | 308.13 | 191.19 | 1408.76 | 1850.47 | 0.726 | 1.264 |
| 6/30/2004 | 23.19 | 425.07 | 18.33 | 306.19 | 191.88 | 1421.51 | 1859.66 | 0.709 | 1.259 |
| 7/31/2004 | 23.14 | 411.66 | 17.79 | 298.64 | 192.60 | 1434.27 | 1868.92 | 0.714 | 1.254 |
| 8/31/2004 | 22.77 | 420.80 | 18.48 | 306.34 | 193.31 | 1447.32 | 1878.41 | 0.717 | 1.250 |
| 9/30/2004 | 21.97 | 416.40 | 18.95 | 305.02 | 193.97 | 1459.81 | 1887.57 | 0.721 | 1.245 |
| 10/31/2004 | 19.75 | 421.38 | 21.34 | 301.04 | 194.58 | 1472.87 | 1896.90 | 0.705 | 1.240 |
| 11/30/2004 | 20.88 | 416.15 | 19.93 | 334.10 | 195.21 | 1485.36 | 1906.92 | 0.791 | 1.237 |
| 12/31/2004 | 19.12 | 422.31 | 22.09 | 413.63 | 195.80 | 1498.45 | 1919.74 | 0.967 | 1.235 |
| 1/31/2005 | 19.54 | 440.50 | 22.54 | 468.97 | 196.40 | 1512.10 | 1934.28 | 1.051 | 1.233 |
| 2/28/2005 | 19.27 | 441.37 | 22.91 | 482.32 | 196.94 | 1524.46 | 1947.79 | 1.079 | 1.232 |
| 3/31/2005 | 18.38 | 434.60 | 23.65 | 471.52 | 197.51 | 1537.93 | 1962.40 | 1.072 | 1.230 |
| 4/30/2005 | 17.04 | 432.82 | 25.39 | 460.71 | 198.03 | 1550.92 | 1976.22 | 1.052 | 1.229 |
| 5/31/2005 | 16.03 | 443.30 | 27.66 | 511.29 | 198.52 | 1564.66 | 1992.07 | 1.141 | 1.228 |
| 6/30/2005 | 15.33 | 425.17 | 27.74 | 415.27 | 198.98 | 1577.42 | 2004.53 | 0.967 | 1.226 |
| 7/31/2005 | 14.82 | 432.77 | 29.21 | 433.14 | 199.44 | 1590.83 | 2017.96 | 0.991 | 1.224 |
| 8/31/2005 | 14.69 | 422.88 | 28.78 | 432.25 | 199.90 | 1603.94 | 2031.36 | 1.012 | 1.222 |
| 9/30/2005 | 15.45 | 428.21 | 27.72 | 450.78 | 200.36 | 1616.79 | 2044.88 | 1.042 | 1.221 |
| 10/31/2005 | 15.56 | 439.22 | 28.23 | 543.50 | 200.84 | 1630.40 | 2061.73 | 1.225 | 1.221 |
| 11/30/2005 | 14.49 | 442.65 | 30.56 | 484.98 | 201.28 | 1643.68 | 2076.28 | 1.085 | 1.220 |
| 12/31/2005 | 13.28 | 441.75 | 33.25 | 496.14 | 201.69 | 1657.38 | 2091.66 | 1.113 | 1.219 |
| 1/31/2006 | 12.88 | 439.42 | 34.11 | 515.24 | 202.09 | 1671.00 | 2107.63 | 1.163 | 1.219 |
| 2/28/2006 | 13.40 | 466.04 | 34.79 | 542.75 | 202.46 | 1684.05 | 2122.83 | 1.155 | 1.218 |
| 3/31/2006 | 14.99 | 463.49 | 30.91 | 521.69 | 202.93 | 1698.42 | 2139.00 | 1.115 | 1.217 |
| 4/30/2006 | 12.34 | 457.98 | 37.12 | 459.08 | 203.30 | 1712.16 | 2152.77 | 0.995 | 1.216 |
| 5/31/2006 | 13.74 | 444.92 | 32.39 | 445.84 | 203.72 | 1725.95 | 2166.60 | 0.993 | 1.214 |
| 6/30/2006 | 13.39 | 439.97 | 32.87 | 455.17 | 204.13 | 1739.15 | 2180.25 | 1.026 | 1.212 |
| 7/31/2006 | 11.41 | 437.77 | 38.37 | 463.21 | 204.48 | 1752.72 | 2194.61 | 1.050 | 1.211 |
| 8/31/2006 | 11.73 | 425.36 | 36.25 | 446.52 | 204.84 | 1765.90 | 2208.45 | 1.041 | 1.210 |
| 9/30/2006 | 12.14 | 446.74 | 36.79 | 468.45 | 205.21 | 1779.31 | 2222.51 | 1.040 | 1.209 |
| 10/31/2006 | 11.36 | 453.04 | 39.87 | 468.85 | 205.56 | 1793.35 | 2237.04 | 1.027 | 1.207 |
| 11/30/2006 | 10.61 | 451.77 | 42.59 | 472.22 | 205.88 | 1806.90 | 2251.21 | 1.038 | 1.206 |
| 12/31/2006 | 11.68 | 458.85 | 39.29 | 498.10 | 206.24 | 1821.13 | 2266.65 | 1.078 | 1.205 |
| 1/31/2007 | 11.21 | 447.62 | 39.94 | 485.18 | 206.59 | 1835.00 | 2281.69 | 1.076 | 1.204 |
| 2/28/2007 | 11.31 | 449.22 | 39.73 | 487.59 | 206.90 | 1847.58 | 2295.34 | 1.078 | 1.203 |
| 3/31/2007 | 10.79 | 441.50 | 40.91 | 478.02 | 207.24 | 1861.27 | 2310.16 | 1.075 | 1.202 |
| 4/30/2007 | 10.25 | 443.08 | 43.23 | 479.26 | 207.55 | 1874.56 | 2324.54 | 1.074 | 1.202 |
| 5/31/2007 | 10.42 | 423.76 | 40.67 | 454.96 | 207.87 | 1887.70 | 2338.64 | 1.066 | 1.201 |
| 6/30/2007 | 10.26 | 429.25 | 41.85 | 358.96 | 208.18 | 1900.58 | 2349.41 | 0.830 | 1.198 |
| 7/31/2007 | 10.66 | 429.33 | 40.29 | 373.18 | 208.51 | 1913.88 | 2360.98 | 0.863 | 1.196 |
| 8/31/2007 | 9.64 | 350.92 | 36.39 | 356.34 | 208.81 | 1924.76 | 2372.03 | 1.007 | 1.195 |
| 9/30/2007 | 10.60 | 438.08 | 41.33 | 379.74 | 209.12 | 1937.91 | 2383.42 | 0.861 | 1.193 |
| 10/31/2007 | 10.81 | 446.63 | 41.31 | 401.29 | 209.46 | 1951.75 | 2395.86 | 0.892 | 1.191 |
| 11/30/2007 | 10.65 | 448.08 | 42.08 | 409.07 | 209.78 | 1965.19 | 2408.13 | 0.907 | 1.189 |
| 12/31/2007 | 10.04 | 456.58 | 45.49 | 423.76 | 210.09 | 1979.35 | 2421.27 | 0.922 | 1.187 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 1/31/2008 | 10.03 | 454.11 | 45.29 | 423.54 | 210.40 | 1993.42 | 2434.40 | 0.927 | 1.185 |
| 2/29/2008 | 9.37 | 447.04 | 47.72 | 409.45 | 210.67 | 2006.39 | 2446.27 | 0.910 | 1.183 |
| 3/31/2008 | 10.21 | 460.92 | 45.14 | 383.03 | 210.99 | 2020.68 | 2458.14 | 0.826 | 1.181 |
| 4/30/2008 | 10.28 | 454.58 | 44.24 | 432.29 | 211.30 | 2034.31 | 2471.11 | 0.945 | 1.179 |
| 5/31/2008 | 10.34 | 442.02 | 42.77 | 414.72 | 211.62 | 2048.02 | 2483.97 | 0.932 | 1.178 |
| 6/30/2008 | 9.95 | 419.70 | 42.17 | 398.10 | 211.92 | 2060.61 | 2495.91 | 0.942 | 1.176 |
| 7/31/2008 | 8.93 | 407.46 | 45.61 | 350.48 | 212.19 | 2073.24 | 2506.78 | 0.855 | 1.174 |
| 8/31/2008 | 9.98 | 415.88 | 41.69 | 389.53 | 212.50 | 2086.13 | 2518.85 | 0.930 | 1.173 |
| 9/30/2008 | 9.52 | 418.02 | 43.92 | 365.35 | 212.79 | 2098.67 | 2529.81 | 0.868 | 1.171 |
| 10/31/2008 | 9.40 | 415.94 | 44.27 | 345.48 | 213.08 | 2111.57 | 2540.52 | 0.825 | 1.169 |
| 11/30/2008 | 9.82 | 451.88 | 46.03 | 406.39 | 213.37 | 2125.12 | 2552.71 | 0.894 | 1.167 |
| 12/31/2008 | 9.04 | 434.82 | 48.09 | 383.46 | 213.65 | 2138.60 | 2564.60 | 0.877 | 1.166 |
| 1/31/2009 | 9.74 | 457.58 | 46.97 | 393.46 | 213.96 | 2152.79 | 2576.80 | 0.855 | 1.164 |
| 2/28/2009 | 9.67 | 449.31 | 46.46 | 386.60 | 214.23 | 2165.37 | 2587.62 | 0.855 | 1.162 |
| 3/31/2009 | 9.54 | 436.27 | 45.73 | 403.65 | 214.52 | 2178.89 | 2600.14 | 0.919 | 1.160 |
| 4/30/2009 | 9.69 | 456.93 | 47.15 | 412.47 | 214.81 | 2192.60 | 2612.51 | 0.897 | 1.159 |
| 5/31/2009 | 8.62 | 445.96 | 51.71 | 369.92 | 215.08 | 2206.43 | 2623.98 | 0.825 | 1.157 |
| 6/30/2009 | 9.13 | 438.45 | 48.00 | 389.71 | 215.35 | 2219.58 | 2635.67 | 0.884 | 1.155 |
| 7/31/2009 | 8.69 | 426.73 | 49.10 | 385.46 | 215.62 | 2232.81 | 2647.62 | 0.898 | 1.154 |
| 8/31/2009 | 8.59 | 433.48 | 50.47 | 377.89 | 215.89 | 2246.25 | 2659.33 | 0.867 | 1.152 |
| 9/30/2009 | 8.85 | 437.83 | 49.50 | 379.25 | 216.16 | 2259.38 | 2670.71 | 0.861 | 1.150 |
| 10/31/2009 | 8.95 | 443.37 | 49.55 | 402.84 | 216.43 | 2273.12 | 2683.20 | 0.903 | 1.149 |
| 11/30/2009 | 8.62 | 444.80 | 51.59 | 416.06 | 216.69 | 2286.47 | 2695.68 | 0.930 | 1.148 |
| 12/31/2009 | 8.60 | 444.44 | 51.66 | 388.95 | 216.96 | 2300.25 | 2707.74 | 0.870 | 1.146 |
| 1/31/2010 | 8.40 | 441.89 | 52.59 | 384.64 | 217.22 | 2313.94 | 2719.66 | 0.866 | 1.144 |
| 2/28/2010 | 8.42 | 432.38 | 51.37 | 380.69 | 217.45 | 2326.05 | 2730.32 | 0.876 | 1.143 |
| 3/31/2010 | 8.18 | 425.87 | 52.09 | 380.80 | 217.71 | 2339.25 | 2742.13 | 0.889 | 1.141 |
| 4/30/2010 | 7.27 | 400.16 | 55.01 | 353.82 | 217.93 | 2351.26 | 2752.74 | 0.880 | 1.140 |
| 5/31/2010 | 7.67 | 418.78 | 54.57 | 368.86 | 218.16 | 2364.24 | 2764.18 | 0.876 | 1.139 |
| 6/30/2010 | 7.98 | 430.21 | 53.91 | 391.81 | 218.40 | 2377.15 | 2775.93 | 0.906 | 1.138 |
| 7/31/2010 | 7.29 | 416.70 | 57.15 | 386.85 | 218.63 | 2390.06 | 2787.92 | 0.924 | 1.136 |
| 8/31/2010 | 7.66 | 437.83 | 57.16 | 368.83 | 218.87 | 2403.64 | 2799.36 | 0.838 | 1.135 |
| 9/30/2010 | 7.77 | 432.25 | 55.66 | 409.48 | 219.10 | 2416.60 | 2811.64 | 0.942 | 1.134 |
| 10/31/2010 | 7.77 | 430.92 | 55.48 | 437.02 | 219.34 | 2429.96 | 2825.19 | 1.009 | 1.133 |
| 11/30/2010 | 7.65 | 432.97 | 56.62 | 429.79 | 219.57 | 2442.95 | 2838.08 | 0.988 | 1.132 |
| 12/31/2010 | 7.52 | 453.29 | 60.31 | 438.97 | 219.80 | 2457.00 | 2851.69 | 0.964 | 1.131 |
| 1/31/2011 | 7.61 | 462.65 | 60.82 | 465.91 | 220.04 | 2471.35 | 2866.13 | 1.002 | 1.131 |
| 2/28/2011 | 8.03 | 468.50 | 58.33 | 465.93 | 220.26 | 2484.46 | 2879.18 | 0.990 | 1.130 |
| 3/31/2011 | 8.18 | 474.47 | 57.97 | 468.89 | 220.52 | 2499.17 | 2893.71 | 0.983 | 1.129 |
| 4/30/2011 | 5.68 | 359.83 | 63.31 | 258.30 | 220.69 | 2509.97 | 2901.46 | 0.715 | 1.127 |
| 5/31/2011 | 5.76 | 369.23 | 64.12 | 96.64 | 220.87 | 2521.41 | 2904.46 | 0.261 | 1.123 |
| 6/30/2011 | 5.66 | 360.49 | 63.65 | 180.41 | 221.04 | 2532.23 | 2909.87 | 0.498 | 1.121 |
| 7/31/2011 | 4.73 | 356.99 | 75.42 | 255.56 | 221.18 | 2543.30 | 2917.79 | 0.713 | 1.119 |
| 8/31/2011 | 7.45 | 438.01 | 58.78 | 363.07 | 221.41 | 2556.87 | 2929.05 | 0.825 | 1.118 |
| 9/30/2011 | 7.62 | 460.11 | 60.39 | 411.30 | 221.64 | 2570.68 | 2941.39 | 0.890 | 1.116 |
| 10/31/2011 | 6.92 | 447.42 | 64.66 | 248.81 | 221.86 | 2584.55 | 2949.10 | 0.554 | 1.113 |
| 11/30/2011 | 6.41 | 454.17 | 70.82 | 160.97 | 222.05 | 2598.17 | 2953.93 | 0.353 | 1.110 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|-----------------------------|-------------------------------|--------------------------------|-----------------------------------|---------------------------|-----------------------------|----------------------------|---------------------------------|--------------------------------------|
| 12/31/2011 | 6.34 | 449.66 | 70.95 | 211.68 | 222.25 | 2612.11 | 2960.49 | 0.469 | 1.106 |

Pattern: 00/06-14-009-25 Inj Set: E Routledge Unit #1

Oil Formation Vol. Factor : 1.05 m3/m3

Water Formation Vol Factor : 1.00 m3/m3

Water / Oil Ratio : 53.68 m3/m3

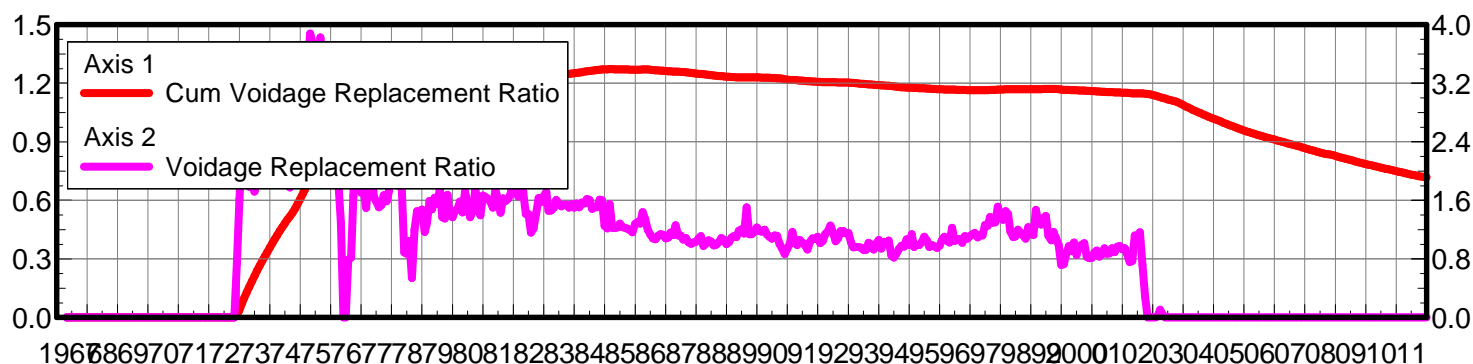
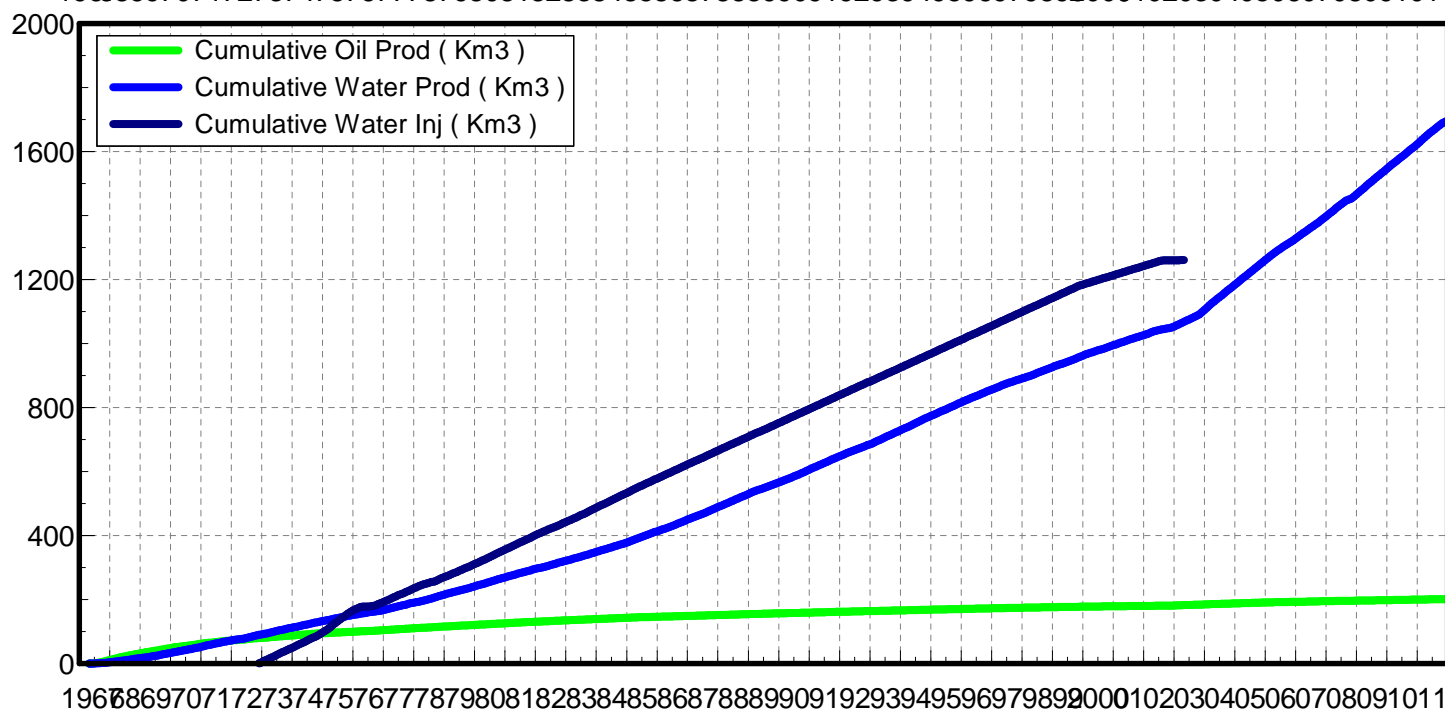
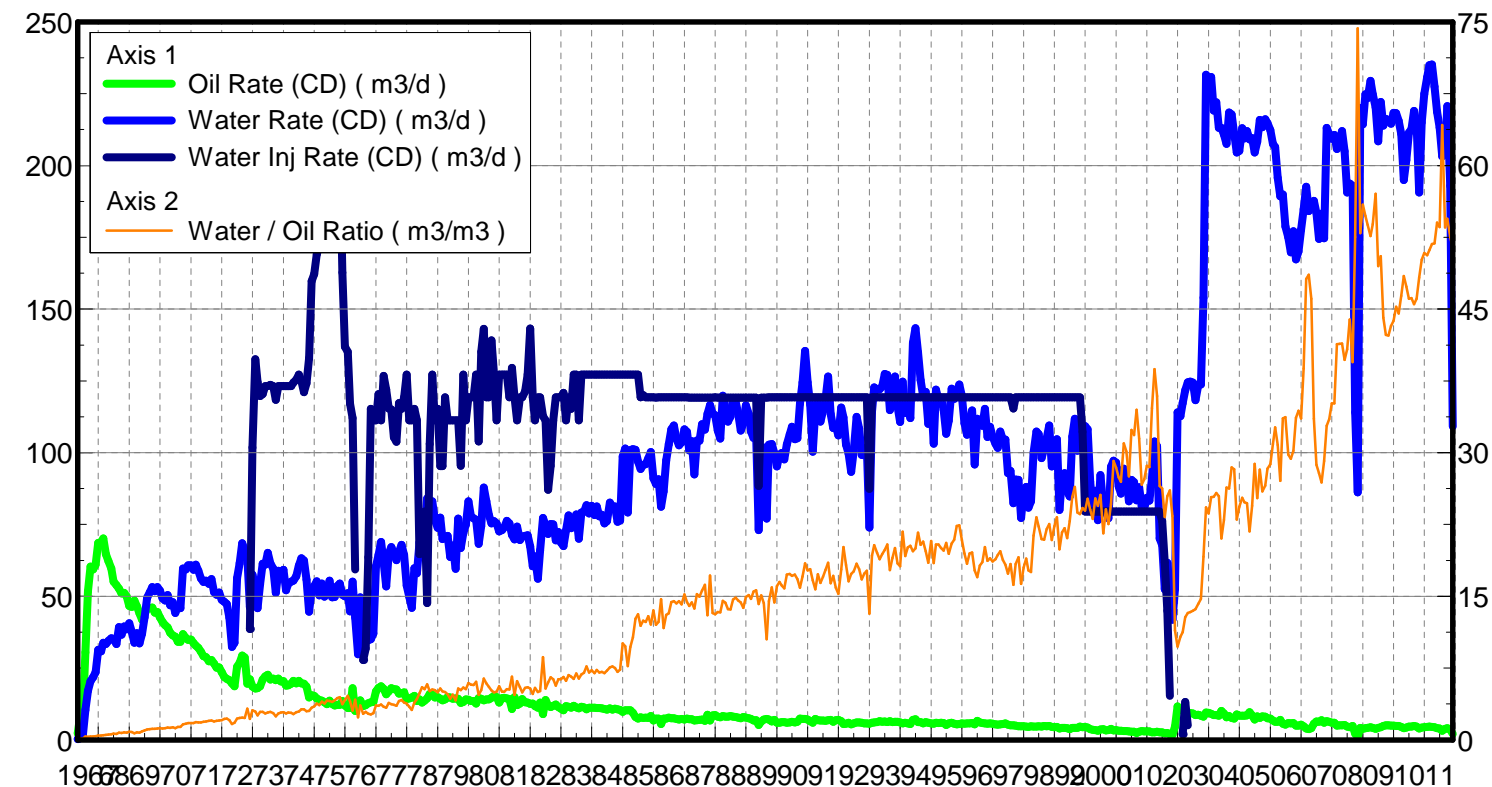
March 04, 2012

Operator: TUNDRA_OIL_&_GAS_LIMITED

Oil Rate (CD) : 2.98 m3/d

Water Rate (CD) : 159.84 m3/d

Water Inj Rate (CD) : 5.05 m3/d



Date

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemnt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|------------------------------|
| 4/30/1967 | 2.34 | 0.23 | 0.10 | | 0.07 | 0.01 | 0.00 | 0.000 | 0.000 |
| 5/31/1967 | 8.53 | 0.89 | 0.10 | | 0.33 | 0.03 | 0.00 | 0.000 | 0.000 |
| 6/30/1967 | 9.28 | 1.48 | 0.16 | | 0.61 | 0.08 | 0.00 | 0.000 | 0.000 |
| 7/31/1967 | 30.54 | 10.38 | 0.34 | | 1.56 | 0.40 | 0.00 | 0.000 | 0.000 |
| 8/31/1967 | 51.71 | 17.08 | 0.33 | | 3.16 | 0.93 | 0.00 | 0.000 | 0.000 |
| 9/30/1967 | 60.38 | 20.43 | 0.34 | | 4.97 | 1.54 | 0.00 | 0.000 | 0.000 |
| 10/31/1967 | 59.37 | 21.83 | 0.37 | | 6.81 | 2.22 | 0.00 | 0.000 | 0.000 |
| 11/30/1967 | 61.04 | 23.60 | 0.39 | | 8.65 | 2.93 | 0.00 | 0.000 | 0.000 |
| 12/31/1967 | 68.62 | 31.38 | 0.46 | | 10.77 | 3.90 | 0.00 | 0.000 | 0.000 |
| 1/31/1968 | 68.78 | 30.84 | 0.45 | | 12.90 | 4.86 | 0.00 | 0.000 | 0.000 |
| 2/29/1968 | 70.20 | 33.88 | 0.48 | | 14.94 | 5.84 | 0.00 | 0.000 | 0.000 |
| 3/31/1968 | 64.66 | 33.39 | 0.52 | | 16.95 | 6.87 | 0.00 | 0.000 | 0.000 |
| 4/30/1968 | 62.27 | 34.47 | 0.55 | | 18.81 | 7.91 | 0.00 | 0.000 | 0.000 |
| 5/31/1968 | 59.69 | 35.34 | 0.59 | | 20.66 | 9.00 | 0.00 | 0.000 | 0.000 |
| 6/30/1968 | 55.06 | 35.19 | 0.64 | | 22.32 | 10.06 | 0.00 | 0.000 | 0.000 |
| 7/31/1968 | 53.88 | 33.37 | 0.62 | | 23.99 | 11.09 | 0.00 | 0.000 | 0.000 |
| 8/31/1968 | 52.66 | 39.26 | 0.75 | | 25.62 | 12.31 | 0.00 | 0.000 | 0.000 |
| 9/30/1968 | 50.96 | 36.66 | 0.72 | | 27.15 | 13.41 | 0.00 | 0.000 | 0.000 |
| 10/31/1968 | 51.21 | 39.52 | 0.77 | | 28.73 | 14.64 | 0.00 | 0.000 | 0.000 |
| 11/30/1968 | 50.02 | 38.50 | 0.77 | | 30.24 | 15.79 | 0.00 | 0.000 | 0.000 |
| 12/31/1968 | 46.69 | 40.58 | 0.87 | | 31.68 | 17.05 | 0.00 | 0.000 | 0.000 |
| 1/31/1969 | 46.32 | 37.63 | 0.81 | | 33.12 | 18.22 | 0.00 | 0.000 | 0.000 |
| 2/28/1969 | 48.52 | 33.87 | 0.70 | | 34.48 | 19.16 | 0.00 | 0.000 | 0.000 |
| 3/31/1969 | 46.48 | 37.22 | 0.80 | | 35.92 | 20.32 | 0.00 | 0.000 | 0.000 |
| 4/30/1969 | 44.03 | 33.58 | 0.76 | | 37.24 | 21.32 | 0.00 | 0.000 | 0.000 |
| 5/31/1969 | 41.88 | 36.92 | 0.88 | | 38.54 | 22.47 | 0.00 | 0.000 | 0.000 |
| 6/30/1969 | 43.88 | 42.77 | 0.97 | | 39.85 | 23.75 | 0.00 | 0.000 | 0.000 |
| 7/31/1969 | 45.69 | 49.52 | 1.08 | | 41.27 | 25.29 | 0.00 | 0.000 | 0.000 |
| 8/31/1969 | 45.85 | 51.37 | 1.12 | | 42.69 | 26.88 | 0.00 | 0.000 | 0.000 |
| 9/30/1969 | 46.13 | 53.27 | 1.15 | | 44.07 | 28.48 | 0.00 | 0.000 | 0.000 |
| 10/31/1969 | 44.30 | 51.77 | 1.17 | | 45.45 | 30.08 | 0.00 | 0.000 | 0.000 |
| 11/30/1969 | 44.55 | 53.17 | 1.19 | | 46.78 | 31.68 | 0.00 | 0.000 | 0.000 |
| 12/31/1969 | 42.62 | 52.01 | 1.22 | | 48.11 | 33.29 | 0.00 | 0.000 | 0.000 |
| 1/31/1970 | 41.07 | 49.33 | 1.20 | | 49.38 | 34.82 | 0.00 | 0.000 | 0.000 |
| 2/28/1970 | 39.90 | 48.49 | 1.22 | | 50.50 | 36.18 | 0.00 | 0.000 | 0.000 |
| 3/31/1970 | 39.19 | 50.46 | 1.29 | | 51.71 | 37.74 | 0.00 | 0.000 | 0.000 |
| 4/30/1970 | 37.28 | 46.88 | 1.26 | | 52.83 | 39.15 | 0.00 | 0.000 | 0.000 |
| 5/31/1970 | 36.37 | 47.92 | 1.32 | | 53.96 | 40.63 | 0.00 | 0.000 | 0.000 |
| 6/30/1970 | 35.98 | 44.19 | 1.23 | | 55.04 | 41.96 | 0.00 | 0.000 | 0.000 |
| 7/31/1970 | 34.16 | 46.55 | 1.36 | | 56.10 | 43.40 | 0.00 | 0.000 | 0.000 |
| 8/31/1970 | 34.16 | 45.87 | 1.34 | | 57.15 | 44.82 | 0.00 | 0.000 | 0.000 |
| 9/30/1970 | 36.87 | 59.63 | 1.62 | | 58.26 | 46.61 | 0.00 | 0.000 | 0.000 |
| 10/31/1970 | 35.45 | 59.36 | 1.67 | | 59.36 | 48.45 | 0.00 | 0.000 | 0.000 |
| 11/30/1970 | 34.84 | 60.82 | 1.75 | | 60.40 | 50.28 | 0.00 | 0.000 | 0.000 |
| 12/31/1970 | 34.90 | 60.79 | 1.74 | | 61.49 | 52.16 | 0.00 | 0.000 | 0.000 |
| 1/31/1971 | 33.70 | 59.21 | 1.76 | | 62.53 | 54.00 | 0.00 | 0.000 | 0.000 |
| 2/28/1971 | 32.79 | 61.02 | 1.86 | | 63.45 | 55.71 | 0.00 | 0.000 | 0.000 |
| 3/31/1971 | 32.03 | 58.88 | 1.84 | | 64.44 | 57.53 | 0.00 | 0.000 | 0.000 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemnt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|------------------------------|
| 4/30/1971 | 30.69 | 56.26 | 1.83 | | 65.36 | 59.22 | 0.00 | 0.000 | 0.000 |
| 5/31/1971 | 29.15 | 54.98 | 1.89 | | 66.27 | 60.92 | 0.00 | 0.000 | 0.000 |
| 6/30/1971 | 28.82 | 55.48 | 1.92 | | 67.13 | 62.59 | 0.00 | 0.000 | 0.000 |
| 7/31/1971 | 27.42 | 54.36 | 1.98 | | 67.98 | 64.27 | 0.00 | 0.000 | 0.000 |
| 8/31/1971 | 27.84 | 56.00 | 2.01 | | 68.84 | 66.01 | 0.00 | 0.000 | 0.000 |
| 9/30/1971 | 26.62 | 51.42 | 1.93 | | 69.64 | 67.55 | 0.00 | 0.000 | 0.000 |
| 10/31/1971 | 25.19 | 50.54 | 2.01 | | 70.42 | 69.12 | 0.00 | 0.000 | 0.000 |
| 11/30/1971 | 25.20 | 51.33 | 2.04 | | 71.18 | 70.66 | 0.00 | 0.000 | 0.000 |
| 12/31/1971 | 23.54 | 48.71 | 2.07 | | 71.91 | 72.17 | 0.00 | 0.000 | 0.000 |
| 1/31/1972 | 21.93 | 48.04 | 2.19 | | 72.59 | 73.66 | 0.00 | 0.000 | 0.000 |
| 2/29/1972 | 21.19 | 47.34 | 2.23 | | 73.20 | 75.03 | 0.00 | 0.000 | 0.000 |
| 3/31/1972 | 20.80 | 42.47 | 2.04 | | 73.85 | 76.35 | 0.00 | 0.000 | 0.000 |
| 4/30/1972 | 19.70 | 32.43 | 1.65 | | 74.44 | 77.32 | 0.00 | 0.000 | 0.000 |
| 5/31/1972 | 18.70 | 33.78 | 1.81 | | 75.02 | 78.37 | 0.00 | 0.000 | 0.000 |
| 6/30/1972 | 25.46 | 56.39 | 2.21 | | 75.78 | 80.06 | 0.00 | 0.000 | 0.000 |
| 7/31/1972 | 26.86 | 61.45 | 2.29 | | 76.62 | 81.96 | 0.00 | 0.000 | 0.000 |
| 8/31/1972 | 29.40 | 68.45 | 2.33 | | 77.53 | 84.09 | 0.00 | 0.000 | 0.000 |
| 9/30/1972 | 28.74 | 66.17 | 2.30 | | 78.39 | 86.07 | 0.00 | 0.000 | 0.000 |
| 10/31/1972 | 19.61 | 63.86 | 3.26 | | 79.00 | 88.05 | 0.00 | 0.000 | 0.000 |
| 11/30/1972 | 21.11 | 46.23 | 2.19 | 38.66 | 79.63 | 89.44 | 1.16 | 0.739 | 0.010 |
| 12/31/1972 | 18.60 | 57.54 | 3.09 | 101.82 | 80.21 | 91.22 | 4.32 | 1.618 | 0.038 |
| 1/31/1973 | 17.94 | 53.19 | 2.96 | 132.58 | 80.76 | 92.87 | 8.43 | 2.271 | 0.072 |
| 2/28/1973 | 18.02 | 45.89 | 2.55 | 124.61 | 81.27 | 94.16 | 11.92 | 2.438 | 0.101 |
| 3/31/1973 | 18.67 | 54.37 | 2.91 | 119.69 | 81.85 | 95.84 | 15.63 | 2.002 | 0.131 |
| 4/30/1973 | 21.03 | 61.30 | 2.91 | 120.40 | 82.48 | 97.68 | 19.24 | 1.787 | 0.158 |
| 5/31/1973 | 22.18 | 60.97 | 2.75 | 123.22 | 83.16 | 99.57 | 23.06 | 1.829 | 0.187 |
| 6/30/1973 | 22.68 | 65.13 | 2.87 | 123.22 | 83.85 | 101.52 | 26.75 | 1.719 | 0.213 |
| 7/31/1973 | 21.07 | 61.50 | 2.92 | 123.60 | 84.50 | 103.43 | 30.59 | 1.829 | 0.239 |
| 8/31/1973 | 21.38 | 59.72 | 2.79 | 123.22 | 85.16 | 105.28 | 34.41 | 1.870 | 0.265 |
| 9/30/1973 | 20.75 | 51.26 | 2.47 | 118.39 | 85.78 | 106.82 | 37.96 | 2.068 | 0.288 |
| 10/31/1973 | 21.37 | 58.86 | 2.75 | 123.22 | 86.45 | 108.64 | 41.78 | 1.895 | 0.313 |
| 11/30/1973 | 20.34 | 58.42 | 2.87 | 123.22 | 87.06 | 110.40 | 45.47 | 1.916 | 0.335 |
| 12/31/1973 | 20.50 | 59.23 | 2.89 | 123.22 | 87.69 | 112.23 | 49.29 | 1.891 | 0.358 |
| 1/31/1974 | 18.86 | 52.13 | 2.76 | 123.22 | 88.28 | 113.85 | 53.11 | 2.140 | 0.381 |
| 2/28/1974 | 18.97 | 54.39 | 2.87 | 123.22 | 88.81 | 115.37 | 56.56 | 2.058 | 0.401 |
| 3/31/1974 | 19.52 | 55.08 | 2.82 | 123.22 | 89.41 | 117.08 | 60.38 | 2.029 | 0.422 |
| 4/30/1974 | 20.57 | 55.42 | 2.69 | 124.41 | 90.03 | 118.74 | 64.11 | 2.027 | 0.443 |
| 5/31/1974 | 19.70 | 57.03 | 2.90 | 125.40 | 90.64 | 120.51 | 68.00 | 1.999 | 0.463 |
| 6/30/1974 | 20.59 | 60.67 | 2.95 | 127.19 | 91.26 | 122.33 | 71.82 | 1.909 | 0.483 |
| 7/31/1974 | 19.71 | 63.21 | 3.21 | 125.01 | 91.87 | 124.29 | 75.69 | 1.814 | 0.502 |
| 8/31/1974 | 19.55 | 62.48 | 3.20 | 121.04 | 92.48 | 126.23 | 79.45 | 1.776 | 0.519 |
| 9/30/1974 | 18.56 | 55.79 | 3.01 | 124.14 | 93.03 | 127.90 | 83.17 | 2.030 | 0.537 |
| 10/31/1974 | 14.82 | 44.66 | 3.01 | 132.86 | 93.49 | 129.28 | 87.29 | 2.714 | 0.558 |
| 11/30/1974 | 15.53 | 52.17 | 3.36 | 159.70 | 93.96 | 130.85 | 92.08 | 2.818 | 0.583 |
| 12/31/1974 | 15.30 | 53.55 | 3.50 | 162.21 | 94.43 | 132.51 | 97.11 | 2.798 | 0.608 |
| 1/31/1975 | 14.49 | 55.26 | 3.81 | 169.12 | 94.88 | 134.22 | 102.35 | 2.845 | 0.633 |
| 2/28/1975 | 13.90 | 50.29 | 3.62 | 172.11 | 95.27 | 135.63 | 107.17 | 3.169 | 0.657 |
| 3/31/1975 | 13.66 | 54.41 | 3.98 | 197.54 | 95.69 | 137.32 | 113.29 | 3.385 | 0.687 |

| 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 Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 4/30/1975 | 13.14 | 49.91 | 3.80 | 208.28 | 96.09 | 138.81 | 119.54 | 3.878 | 0.718 |
| 5/31/1975 | 12.46 | 51.04 | 4.10 | 204.51 | 96.47 | 140.40 | 125.88 | 3.743 | 0.748 |
| 6/30/1975 | 13.67 | 55.47 | 4.06 | 206.95 | 96.88 | 142.06 | 132.09 | 3.483 | 0.777 |
| 7/31/1975 | 12.53 | 49.64 | 3.96 | 176.94 | 97.27 | 143.60 | 137.57 | 3.322 | 0.801 |
| 8/31/1975 | 12.04 | 49.72 | 4.13 | 203.61 | 97.65 | 145.14 | 143.89 | 3.827 | 0.830 |
| 9/30/1975 | 12.22 | 53.53 | 4.38 | 199.01 | 98.01 | 146.75 | 149.86 | 3.487 | 0.856 |
| 10/31/1975 | 12.22 | 54.44 | 4.46 | 207.20 | 98.39 | 148.43 | 156.28 | 3.574 | 0.883 |
| 11/30/1975 | 13.55 | 50.52 | 3.73 | 162.74 | 98.80 | 149.95 | 161.16 | 2.989 | 0.903 |
| 12/31/1975 | 11.98 | 50.04 | 4.18 | 136.94 | 99.17 | 151.50 | 165.41 | 2.559 | 0.918 |
| 1/31/1976 | 11.11 | 51.11 | 4.60 | 135.14 | 99.51 | 153.09 | 169.60 | 2.488 | 0.933 |
| 2/29/1976 | 11.11 | 44.75 | 4.03 | 117.05 | 99.84 | 154.38 | 172.99 | 2.440 | 0.944 |
| 3/31/1976 | 17.95 | 55.10 | 3.07 | 112.05 | 100.39 | 156.09 | 176.46 | 1.858 | 0.953 |
| 4/30/1976 | 10.13 | 42.67 | 4.21 | 59.36 | 100.70 | 157.37 | 178.25 | 1.302 | 0.956 |
| 5/31/1976 | 12.58 | 29.78 | 2.37 | | 101.09 | 158.30 | 178.25 | 0.000 | 0.950 |
| 6/30/1976 | 13.78 | 49.62 | 3.60 | | 101.50 | 159.78 | 178.25 | 0.000 | 0.942 |
| 7/31/1976 | 11.78 | 31.95 | 2.71 | 27.82 | 101.86 | 160.77 | 179.11 | 0.787 | 0.942 |
| 8/31/1976 | 12.09 | 35.28 | 2.92 | 31.80 | 102.24 | 161.87 | 180.09 | 0.820 | 0.941 |
| 9/30/1976 | 12.79 | 34.69 | 2.71 | 63.59 | 102.62 | 162.91 | 182.00 | 1.657 | 0.945 |
| 10/31/1976 | 13.15 | 35.08 | 2.67 | 115.27 | 103.03 | 164.00 | 185.57 | 2.964 | 0.958 |
| 11/30/1976 | 13.19 | 37.02 | 2.81 | 111.29 | 103.43 | 165.11 | 188.91 | 2.726 | 0.969 |
| 12/31/1976 | 16.85 | 60.41 | 3.58 | 111.29 | 103.95 | 166.98 | 192.36 | 1.705 | 0.976 |
| 1/31/1977 | 18.13 | 64.34 | 3.55 | 120.35 | 104.51 | 168.97 | 196.09 | 1.730 | 0.984 |
| 2/28/1977 | 18.70 | 68.94 | 3.69 | 111.29 | 105.03 | 170.90 | 199.21 | 1.497 | 0.990 |
| 3/31/1977 | 17.79 | 61.76 | 3.47 | 126.71 | 105.59 | 172.82 | 203.14 | 1.894 | 0.999 |
| 4/30/1977 | 15.86 | 53.41 | 3.37 | 121.94 | 106.06 | 174.42 | 206.80 | 2.102 | 1.008 |
| 5/31/1977 | 16.88 | 64.95 | 3.85 | 115.43 | 106.59 | 176.43 | 210.38 | 1.653 | 1.015 |
| 6/30/1977 | 18.02 | 67.10 | 3.72 | 115.00 | 107.13 | 178.45 | 213.83 | 1.590 | 1.021 |
| 7/31/1977 | 17.69 | 65.01 | 3.68 | 105.41 | 107.67 | 180.46 | 217.09 | 1.503 | 1.026 |
| 8/31/1977 | 17.53 | 62.57 | 3.57 | 103.82 | 108.22 | 182.40 | 220.31 | 1.535 | 1.031 |
| 9/30/1977 | 16.13 | 65.52 | 4.06 | 117.33 | 108.70 | 184.37 | 223.83 | 1.672 | 1.037 |
| 10/31/1977 | 16.26 | 67.88 | 4.18 | 115.27 | 109.21 | 186.47 | 227.41 | 1.588 | 1.043 |
| 11/30/1977 | 16.54 | 64.34 | 3.89 | 119.24 | 109.70 | 188.40 | 230.98 | 1.725 | 1.049 |
| 12/31/1977 | 14.18 | 53.80 | 3.79 | 127.19 | 110.14 | 190.07 | 234.93 | 2.197 | 1.059 |
| 1/31/1978 | 14.39 | 49.83 | 3.46 | 111.29 | 110.59 | 191.62 | 238.38 | 2.061 | 1.066 |
| 2/28/1978 | 14.73 | 45.94 | 3.12 | 111.29 | 111.00 | 192.90 | 241.49 | 2.217 | 1.073 |
| 3/31/1978 | 15.35 | 59.77 | 3.89 | 115.27 | 111.48 | 194.75 | 245.06 | 1.795 | 1.080 |
| 4/30/1978 | 13.59 | 58.00 | 4.27 | 111.29 | 111.88 | 196.49 | 248.40 | 1.797 | 1.085 |
| 5/31/1978 | 14.11 | 68.67 | 4.87 | 64.71 | 112.32 | 198.62 | 250.41 | 0.889 | 1.084 |
| 6/30/1978 | 12.95 | 71.23 | 5.50 | 65.19 | 112.71 | 200.76 | 252.37 | 0.869 | 1.081 |
| 7/31/1978 | 13.63 | 72.05 | 5.29 | 79.49 | 113.13 | 202.99 | 254.83 | 1.046 | 1.081 |
| 8/31/1978 | 14.46 | 84.10 | 5.82 | 47.70 | 113.58 | 205.60 | 256.31 | 0.540 | 1.075 |
| 9/30/1978 | 15.98 | 81.64 | 5.11 | 103.02 | 114.06 | 208.05 | 259.40 | 1.194 | 1.076 |
| 10/31/1978 | 15.82 | 83.09 | 5.25 | 127.19 | 114.55 | 210.63 | 263.34 | 1.451 | 1.080 |
| 11/30/1978 | 14.75 | 76.63 | 5.20 | 111.29 | 114.99 | 212.92 | 266.68 | 1.376 | 1.083 |
| 12/31/1978 | 14.89 | 73.82 | 4.96 | 115.25 | 115.45 | 215.21 | 270.25 | 1.475 | 1.087 |
| 1/31/1979 | 14.37 | 77.38 | 5.38 | 95.35 | 115.90 | 217.61 | 273.21 | 1.169 | 1.088 |
| 2/28/1979 | 13.81 | 69.89 | 5.06 | 95.35 | 116.29 | 219.57 | 275.88 | 1.291 | 1.090 |
| 3/31/1979 | 14.16 | 70.75 | 5.00 | 119.24 | 116.72 | 221.76 | 279.58 | 1.593 | 1.094 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 4/30/1979 | 14.88 | 71.05 | 4.77 | 111.29 | 117.17 | 223.89 | 282.91 | 1.477 | 1.097 |
| 5/31/1979 | 14.81 | 63.72 | 4.30 | 111.29 | 117.63 | 225.87 | 286.36 | 1.636 | 1.102 |
| 6/30/1979 | 14.32 | 67.72 | 4.73 | 111.29 | 118.06 | 227.90 | 289.70 | 1.549 | 1.106 |
| 7/31/1979 | 14.40 | 59.57 | 4.14 | 111.29 | 118.51 | 229.75 | 293.15 | 1.746 | 1.110 |
| 8/31/1979 | 14.34 | 77.04 | 5.37 | 111.29 | 118.95 | 232.14 | 296.60 | 1.371 | 1.113 |
| 9/30/1979 | 12.87 | 66.81 | 5.19 | 95.39 | 119.34 | 234.14 | 299.46 | 1.353 | 1.115 |
| 10/31/1979 | 13.20 | 72.01 | 5.46 | 127.19 | 119.75 | 236.37 | 303.41 | 1.677 | 1.120 |
| 11/30/1979 | 14.15 | 74.98 | 5.30 | 111.29 | 120.17 | 238.62 | 306.75 | 1.407 | 1.122 |
| 12/31/1979 | 13.97 | 83.06 | 5.95 | 119.24 | 120.60 | 241.20 | 310.44 | 1.369 | 1.124 |
| 1/31/1980 | 13.50 | 77.67 | 5.75 | 119.24 | 121.02 | 243.60 | 314.14 | 1.462 | 1.128 |
| 2/29/1980 | 13.49 | 77.22 | 5.72 | 119.24 | 121.41 | 245.84 | 317.60 | 1.470 | 1.130 |
| 3/31/1980 | 12.65 | 76.61 | 6.06 | 127.19 | 121.81 | 248.22 | 321.54 | 1.585 | 1.134 |
| 4/30/1980 | 14.54 | 68.20 | 4.69 | 103.87 | 122.24 | 250.26 | 324.66 | 1.435 | 1.137 |
| 5/31/1980 | 14.30 | 74.55 | 5.21 | 135.14 | 122.69 | 252.58 | 328.85 | 1.717 | 1.142 |
| 6/30/1980 | 13.74 | 87.87 | 6.39 | 143.09 | 123.10 | 255.21 | 333.14 | 1.558 | 1.146 |
| 7/31/1980 | 14.07 | 83.05 | 5.90 | 119.24 | 123.53 | 257.79 | 336.83 | 1.369 | 1.148 |
| 8/31/1980 | 14.15 | 78.23 | 5.53 | 119.24 | 123.97 | 260.21 | 340.53 | 1.448 | 1.150 |
| 9/30/1980 | 14.63 | 75.43 | 5.16 | 139.12 | 124.41 | 262.47 | 344.70 | 1.746 | 1.155 |
| 10/31/1980 | 15.37 | 76.13 | 4.95 | 127.19 | 124.89 | 264.83 | 348.65 | 1.579 | 1.158 |
| 11/30/1980 | 14.94 | 75.41 | 5.05 | 111.29 | 125.34 | 267.10 | 351.99 | 1.396 | 1.160 |
| 12/31/1980 | 12.98 | 72.63 | 5.60 | 127.19 | 125.74 | 269.35 | 355.93 | 1.665 | 1.164 |
| 1/31/1981 | 14.55 | 73.03 | 5.02 | 127.21 | 126.19 | 271.61 | 359.87 | 1.647 | 1.168 |
| 2/28/1981 | 14.66 | 74.02 | 5.05 | 127.19 | 126.60 | 273.68 | 363.43 | 1.625 | 1.171 |
| 3/31/1981 | 14.39 | 76.23 | 5.30 | 127.19 | 127.05 | 276.05 | 367.38 | 1.582 | 1.175 |
| 4/30/1981 | 14.27 | 75.34 | 5.28 | 119.24 | 127.47 | 278.31 | 370.95 | 1.501 | 1.177 |
| 5/31/1981 | 10.79 | 71.33 | 6.61 | 129.57 | 127.81 | 280.52 | 374.97 | 1.740 | 1.181 |
| 6/30/1981 | 14.87 | 69.76 | 4.69 | 119.24 | 128.25 | 282.61 | 378.55 | 1.610 | 1.184 |
| 7/31/1981 | 12.11 | 74.28 | 6.13 | 111.29 | 128.63 | 284.91 | 382.00 | 1.431 | 1.186 |
| 8/31/1981 | 12.67 | 69.57 | 5.49 | 119.24 | 129.02 | 287.07 | 385.69 | 1.628 | 1.189 |
| 9/30/1981 | 14.25 | 70.82 | 4.97 | 119.24 | 129.45 | 289.20 | 389.27 | 1.591 | 1.192 |
| 10/31/1981 | 13.09 | 71.04 | 5.43 | 121.30 | 129.86 | 291.40 | 393.03 | 1.621 | 1.195 |
| 11/30/1981 | 12.95 | 71.22 | 5.50 | 127.19 | 130.24 | 293.53 | 396.85 | 1.697 | 1.198 |
| 12/31/1981 | 12.55 | 67.40 | 5.37 | 143.24 | 130.63 | 295.62 | 401.29 | 2.017 | 1.204 |
| 1/31/1982 | 12.63 | 60.50 | 4.79 | 119.24 | 131.02 | 297.50 | 404.98 | 1.859 | 1.207 |
| 2/28/1982 | 11.76 | 63.92 | 5.43 | 111.29 | 131.35 | 299.29 | 408.10 | 1.653 | 1.210 |
| 3/31/1982 | 11.25 | 56.12 | 4.99 | 119.24 | 131.70 | 301.03 | 411.80 | 2.008 | 1.214 |
| 4/30/1982 | 12.99 | 66.06 | 5.09 | 119.24 | 132.09 | 303.01 | 415.37 | 1.708 | 1.217 |
| 5/31/1982 | 8.94 | 77.28 | 8.65 | 112.72 | 132.37 | 305.41 | 418.87 | 1.411 | 1.219 |
| 6/30/1982 | 13.90 | 74.67 | 5.37 | 111.29 | 132.79 | 307.65 | 422.21 | 1.414 | 1.220 |
| 7/31/1982 | 11.94 | 71.67 | 6.00 | 87.13 | 133.16 | 309.87 | 424.91 | 1.160 | 1.220 |
| 8/31/1982 | 11.48 | 75.13 | 6.54 | 95.39 | 133.51 | 312.20 | 427.87 | 1.216 | 1.220 |
| 9/30/1982 | 11.88 | 75.09 | 6.32 | 111.29 | 133.87 | 314.45 | 431.20 | 1.417 | 1.221 |
| 10/31/1982 | 12.28 | 69.43 | 5.65 | 119.24 | 134.25 | 316.60 | 434.90 | 1.634 | 1.224 |
| 11/30/1982 | 11.42 | 72.39 | 6.34 | 119.24 | 134.59 | 318.77 | 438.48 | 1.575 | 1.226 |
| 12/31/1982 | 10.86 | 68.70 | 6.32 | 119.24 | 134.93 | 320.90 | 442.17 | 1.660 | 1.229 |
| 1/31/1983 | 10.29 | 67.50 | 6.56 | 120.83 | 135.25 | 323.00 | 445.92 | 1.715 | 1.231 |
| 2/28/1983 | 11.79 | 72.93 | 6.19 | 111.29 | 135.58 | 325.04 | 449.04 | 1.458 | 1.233 |
| 3/31/1983 | 11.57 | 78.18 | 6.76 | 119.24 | 135.94 | 327.46 | 452.73 | 1.463 | 1.234 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 4/30/1983 | 11.17 | 73.72 | 6.60 | 115.26 | 136.27 | 329.67 | 456.19 | 1.498 | 1.236 |
| 5/31/1983 | 11.88 | 75.84 | 6.39 | 127.19 | 136.64 | 332.02 | 460.13 | 1.604 | 1.238 |
| 6/30/1983 | 11.32 | 78.47 | 6.93 | 127.19 | 136.98 | 334.38 | 463.95 | 1.556 | 1.241 |
| 7/31/1983 | 10.97 | 70.09 | 6.39 | 111.29 | 137.32 | 336.55 | 467.40 | 1.519 | 1.242 |
| 8/31/1983 | 11.57 | 79.22 | 6.85 | 127.19 | 137.68 | 339.01 | 471.34 | 1.540 | 1.244 |
| 9/30/1983 | 11.35 | 79.37 | 7.00 | 127.19 | 138.02 | 341.39 | 475.16 | 1.539 | 1.246 |
| 10/31/1983 | 10.68 | 81.76 | 7.66 | 127.19 | 138.35 | 343.92 | 479.10 | 1.499 | 1.248 |
| 11/30/1983 | 11.22 | 78.87 | 7.03 | 127.19 | 138.69 | 346.29 | 482.92 | 1.549 | 1.250 |
| 12/31/1983 | 11.21 | 81.49 | 7.27 | 127.19 | 139.03 | 348.82 | 486.86 | 1.501 | 1.251 |
| 1/31/1984 | 11.24 | 78.33 | 6.97 | 127.19 | 139.38 | 351.24 | 490.80 | 1.559 | 1.253 |
| 2/29/1984 | 11.12 | 81.32 | 7.31 | 127.19 | 139.71 | 353.60 | 494.49 | 1.504 | 1.255 |
| 3/31/1984 | 11.05 | 77.82 | 7.04 | 127.19 | 140.05 | 356.01 | 498.43 | 1.570 | 1.257 |
| 4/30/1984 | 11.03 | 78.41 | 7.11 | 127.19 | 140.38 | 358.37 | 502.25 | 1.559 | 1.259 |
| 5/31/1984 | 10.80 | 75.37 | 6.98 | 127.18 | 140.71 | 360.70 | 506.19 | 1.620 | 1.261 |
| 6/30/1984 | 10.54 | 76.19 | 7.23 | 127.19 | 141.03 | 362.99 | 510.01 | 1.605 | 1.263 |
| 7/31/1984 | 10.94 | 82.67 | 7.56 | 127.19 | 141.37 | 365.55 | 513.95 | 1.482 | 1.265 |
| 8/31/1984 | 10.58 | 81.09 | 7.66 | 127.20 | 141.70 | 368.07 | 517.89 | 1.512 | 1.266 |
| 9/30/1984 | 10.84 | 81.28 | 7.50 | 127.18 | 142.02 | 370.50 | 521.71 | 1.507 | 1.268 |
| 10/31/1984 | 10.67 | 75.94 | 7.12 | 127.19 | 142.35 | 372.86 | 525.65 | 1.610 | 1.270 |
| 11/30/1984 | 10.40 | 76.38 | 7.34 | 127.19 | 142.66 | 375.15 | 529.47 | 1.602 | 1.272 |
| 12/31/1984 | 9.77 | 98.62 | 10.09 | 127.19 | 142.97 | 378.21 | 533.41 | 1.254 | 1.271 |
| 1/31/1985 | 10.37 | 101.42 | 9.78 | 127.19 | 143.29 | 381.35 | 537.35 | 1.218 | 1.271 |
| 2/28/1985 | 10.27 | 79.15 | 7.71 | 127.19 | 143.58 | 383.57 | 540.91 | 1.549 | 1.272 |
| 3/31/1985 | 10.37 | 100.87 | 9.73 | 127.19 | 143.90 | 386.69 | 544.86 | 1.225 | 1.272 |
| 4/30/1985 | 9.46 | 101.25 | 10.71 | 127.18 | 144.18 | 389.73 | 548.67 | 1.223 | 1.272 |
| 5/31/1985 | 7.98 | 100.98 | 12.65 | 127.19 | 144.43 | 392.86 | 552.62 | 1.231 | 1.271 |
| 6/30/1985 | 7.38 | 96.91 | 13.13 | 127.18 | 144.65 | 395.77 | 556.43 | 1.284 | 1.272 |
| 7/31/1985 | 7.91 | 94.37 | 11.93 | 119.24 | 144.90 | 398.69 | 560.13 | 1.234 | 1.271 |
| 8/31/1985 | 7.69 | 95.76 | 12.46 | 120.04 | 145.13 | 401.66 | 563.85 | 1.225 | 1.271 |
| 9/30/1985 | 7.78 | 95.95 | 12.33 | 119.24 | 145.37 | 404.54 | 567.43 | 1.214 | 1.271 |
| 10/31/1985 | 7.59 | 98.03 | 12.92 | 119.24 | 145.60 | 407.58 | 571.12 | 1.190 | 1.270 |
| 11/30/1985 | 8.32 | 100.19 | 12.04 | 119.24 | 145.85 | 410.59 | 574.70 | 1.162 | 1.269 |
| 12/31/1985 | 6.73 | 91.09 | 13.53 | 119.24 | 146.06 | 413.41 | 578.40 | 1.282 | 1.269 |
| 1/31/1986 | 7.41 | 89.13 | 12.03 | 119.22 | 146.29 | 416.17 | 582.09 | 1.306 | 1.270 |
| 2/28/1986 | 7.38 | 90.79 | 12.31 | 119.25 | 146.50 | 418.72 | 585.43 | 1.283 | 1.270 |
| 3/31/1986 | 5.52 | 81.20 | 14.70 | 119.25 | 146.67 | 421.23 | 589.13 | 1.440 | 1.271 |
| 4/30/1986 | 7.40 | 86.50 | 11.69 | 119.25 | 146.89 | 423.83 | 592.70 | 1.345 | 1.271 |
| 5/31/1986 | 7.45 | 97.29 | 13.06 | 119.25 | 147.12 | 426.84 | 596.40 | 1.199 | 1.271 |
| 6/30/1986 | 7.78 | 102.87 | 13.22 | 119.25 | 147.35 | 429.93 | 599.98 | 1.134 | 1.270 |
| 7/31/1986 | 7.52 | 108.15 | 14.38 | 119.25 | 147.59 | 433.28 | 603.68 | 1.081 | 1.268 |
| 8/31/1986 | 7.55 | 109.51 | 14.51 | 119.25 | 147.82 | 436.68 | 607.37 | 1.068 | 1.267 |
| 9/30/1986 | 7.34 | 104.78 | 14.27 | 119.25 | 148.04 | 439.82 | 610.95 | 1.116 | 1.266 |
| 10/31/1986 | 7.09 | 102.63 | 14.48 | 119.25 | 148.26 | 443.00 | 614.65 | 1.139 | 1.265 |
| 11/30/1986 | 7.31 | 103.56 | 14.17 | 119.25 | 148.48 | 446.11 | 618.22 | 1.129 | 1.264 |
| 12/31/1986 | 7.11 | 108.10 | 15.20 | 119.25 | 148.70 | 449.46 | 621.92 | 1.083 | 1.263 |
| 1/31/1987 | 7.46 | 107.30 | 14.38 | 119.25 | 148.93 | 452.79 | 625.62 | 1.089 | 1.262 |
| 2/28/1987 | 7.21 | 100.82 | 13.99 | 119.18 | 149.13 | 455.61 | 628.96 | 1.158 | 1.261 |
| 3/31/1987 | 7.24 | 103.98 | 14.36 | 119.18 | 149.36 | 458.83 | 632.65 | 1.124 | 1.260 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 4/30/1987 | 6.73 | 92.48 | 13.74 | 119.18 | 149.56 | 461.61 | 636.23 | 1.262 | 1.260 |
| 5/31/1987 | 6.84 | 104.23 | 15.24 | 119.18 | 149.77 | 464.84 | 639.92 | 1.122 | 1.259 |
| 6/30/1987 | 6.96 | 104.17 | 14.96 | 119.18 | 149.98 | 467.96 | 643.50 | 1.122 | 1.258 |
| 7/31/1987 | 7.05 | 109.95 | 15.59 | 119.18 | 150.20 | 471.37 | 647.19 | 1.064 | 1.257 |
| 8/31/1987 | 6.67 | 107.98 | 16.19 | 119.18 | 150.41 | 474.72 | 650.89 | 1.084 | 1.256 |
| 9/30/1987 | 8.71 | 113.47 | 13.02 | 119.18 | 150.67 | 478.12 | 654.46 | 1.028 | 1.254 |
| 10/31/1987 | 6.80 | 116.59 | 17.16 | 119.18 | 150.88 | 481.74 | 658.16 | 1.005 | 1.253 |
| 11/30/1987 | 8.57 | 113.66 | 13.27 | 119.18 | 151.14 | 485.15 | 661.73 | 1.026 | 1.251 |
| 12/31/1987 | 8.62 | 113.10 | 13.12 | 119.24 | 151.40 | 488.65 | 665.43 | 1.032 | 1.250 |
| 1/31/1988 | 8.08 | 107.86 | 13.35 | 119.18 | 151.65 | 492.00 | 669.12 | 1.082 | 1.249 |
| 2/29/1988 | 7.87 | 104.95 | 13.34 | 119.18 | 151.88 | 495.04 | 672.58 | 1.112 | 1.248 |
| 3/31/1988 | 8.26 | 119.85 | 14.51 | 119.18 | 152.14 | 498.76 | 676.27 | 0.975 | 1.246 |
| 4/30/1988 | 8.07 | 115.60 | 14.32 | 119.18 | 152.38 | 502.22 | 679.85 | 1.011 | 1.244 |
| 5/31/1988 | 8.12 | 110.81 | 13.64 | 119.18 | 152.63 | 505.66 | 683.54 | 1.053 | 1.243 |
| 6/30/1988 | 8.26 | 112.62 | 13.64 | 119.18 | 152.88 | 509.04 | 687.12 | 1.036 | 1.242 |
| 7/31/1988 | 8.12 | 118.87 | 14.65 | 119.18 | 153.13 | 512.72 | 690.81 | 0.983 | 1.240 |
| 8/31/1988 | 7.92 | 117.72 | 14.86 | 119.18 | 153.38 | 516.37 | 694.51 | 0.993 | 1.239 |
| 9/30/1988 | 7.81 | 113.59 | 14.55 | 119.18 | 153.61 | 519.78 | 698.08 | 1.029 | 1.237 |
| 10/31/1988 | 7.50 | 107.69 | 14.36 | 119.18 | 153.84 | 523.12 | 701.78 | 1.085 | 1.236 |
| 11/30/1988 | 7.99 | 110.21 | 13.79 | 119.18 | 154.08 | 526.42 | 705.35 | 1.059 | 1.235 |
| 12/31/1988 | 7.80 | 116.51 | 14.93 | 119.18 | 154.33 | 530.04 | 709.05 | 1.003 | 1.234 |
| 1/31/1989 | 7.51 | 113.49 | 15.12 | 119.18 | 154.56 | 533.55 | 712.74 | 1.030 | 1.233 |
| 2/28/1989 | 7.30 | 107.40 | 14.71 | 119.18 | 154.76 | 536.56 | 716.08 | 1.088 | 1.232 |
| 3/31/1989 | 6.79 | 105.09 | 15.49 | 119.19 | 154.97 | 539.82 | 719.78 | 1.113 | 1.231 |
| 4/30/1989 | 6.81 | 106.32 | 15.62 | 119.18 | 155.18 | 543.01 | 723.35 | 1.101 | 1.230 |
| 5/31/1989 | 5.15 | 73.06 | 14.18 | 88.42 | 155.34 | 545.27 | 726.09 | 1.186 | 1.230 |
| 6/30/1989 | 6.42 | 97.02 | 15.10 | 119.18 | 155.53 | 548.18 | 729.67 | 1.205 | 1.230 |
| 7/31/1989 | 7.13 | 101.83 | 14.28 | 119.18 | 155.75 | 551.34 | 733.36 | 1.147 | 1.230 |
| 8/31/1989 | 7.34 | 77.04 | 10.50 | 119.18 | 155.98 | 553.73 | 737.06 | 1.506 | 1.231 |
| 9/30/1989 | 7.09 | 102.82 | 14.50 | 119.24 | 156.19 | 556.81 | 740.63 | 1.137 | 1.230 |
| 10/31/1989 | 6.46 | 102.98 | 15.93 | 119.24 | 156.39 | 560.01 | 744.33 | 1.137 | 1.230 |
| 11/30/1989 | 6.95 | 99.77 | 14.35 | 119.24 | 156.60 | 563.00 | 747.91 | 1.172 | 1.230 |
| 12/31/1989 | 5.92 | 95.20 | 16.08 | 119.24 | 156.78 | 565.95 | 751.60 | 1.230 | 1.230 |
| 1/31/1990 | 6.02 | 99.28 | 16.49 | 119.24 | 156.97 | 569.03 | 755.30 | 1.180 | 1.229 |
| 2/28/1990 | 6.19 | 99.88 | 16.15 | 119.24 | 157.14 | 571.82 | 758.64 | 1.173 | 1.229 |
| 3/31/1990 | 6.17 | 97.68 | 15.84 | 119.24 | 157.33 | 574.85 | 762.33 | 1.199 | 1.229 |
| 4/30/1990 | 5.96 | 102.95 | 17.26 | 119.24 | 157.51 | 577.94 | 765.91 | 1.139 | 1.228 |
| 5/31/1990 | 6.13 | 106.32 | 17.35 | 119.24 | 157.70 | 581.24 | 769.61 | 1.103 | 1.228 |
| 6/30/1990 | 6.36 | 109.00 | 17.14 | 119.24 | 157.89 | 584.51 | 773.18 | 1.076 | 1.227 |
| 7/31/1990 | 6.06 | 104.71 | 17.28 | 119.24 | 158.08 | 587.75 | 776.88 | 1.120 | 1.226 |
| 8/31/1990 | 6.25 | 105.04 | 16.81 | 119.24 | 158.28 | 591.01 | 780.58 | 1.116 | 1.226 |
| 9/30/1990 | 7.37 | 117.03 | 15.89 | 119.24 | 158.50 | 594.52 | 784.15 | 1.001 | 1.225 |
| 10/31/1990 | 7.28 | 124.36 | 17.07 | 119.24 | 158.72 | 598.37 | 787.85 | 0.943 | 1.223 |
| 11/30/1990 | 7.34 | 135.47 | 18.44 | 119.24 | 158.94 | 602.44 | 791.43 | 0.867 | 1.221 |
| 12/31/1990 | 7.04 | 124.57 | 17.69 | 119.24 | 159.16 | 606.30 | 795.12 | 0.942 | 1.219 |
| 1/31/1991 | 6.54 | 116.70 | 17.85 | 119.24 | 159.36 | 609.92 | 798.82 | 1.005 | 1.218 |
| 2/28/1991 | 6.02 | 100.39 | 16.67 | 119.24 | 159.53 | 612.73 | 802.16 | 1.168 | 1.217 |
| 3/31/1991 | 7.30 | 114.71 | 15.72 | 119.24 | 159.76 | 616.28 | 805.86 | 1.021 | 1.216 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 4/30/1991 | 6.85 | 118.54 | 17.30 | 119.24 | 159.96 | 619.84 | 809.43 | 0.989 | 1.215 |
| 5/31/1991 | 6.76 | 110.79 | 16.39 | 119.24 | 160.17 | 623.28 | 813.13 | 1.058 | 1.214 |
| 6/30/1991 | 6.72 | 114.45 | 17.03 | 119.24 | 160.38 | 626.71 | 816.71 | 1.024 | 1.213 |
| 7/31/1991 | 6.68 | 118.75 | 17.78 | 119.24 | 160.58 | 630.39 | 820.40 | 0.988 | 1.212 |
| 8/31/1991 | 6.84 | 126.49 | 18.50 | 119.24 | 160.79 | 634.31 | 824.10 | 0.928 | 1.210 |
| 9/30/1991 | 6.93 | 113.53 | 16.37 | 119.24 | 161.00 | 637.72 | 827.68 | 1.032 | 1.210 |
| 10/31/1991 | 6.34 | 108.56 | 17.14 | 119.24 | 161.20 | 641.08 | 831.37 | 1.080 | 1.209 |
| 11/30/1991 | 6.88 | 109.30 | 15.88 | 119.24 | 161.41 | 644.36 | 834.95 | 1.071 | 1.208 |
| 12/31/1991 | 6.95 | 106.03 | 15.25 | 119.24 | 161.62 | 647.65 | 838.65 | 1.104 | 1.208 |
| 1/31/1992 | 6.50 | 115.68 | 17.80 | 119.24 | 161.82 | 651.23 | 842.34 | 1.014 | 1.207 |
| 2/29/1992 | 5.58 | 112.32 | 20.14 | 119.23 | 161.98 | 654.49 | 845.80 | 1.047 | 1.206 |
| 3/31/1992 | 5.62 | 102.81 | 18.28 | 119.24 | 162.16 | 657.68 | 849.50 | 1.142 | 1.206 |
| 4/30/1992 | 6.02 | 99.65 | 16.56 | 119.24 | 162.34 | 660.67 | 853.07 | 1.176 | 1.206 |
| 5/31/1992 | 5.38 | 93.36 | 17.35 | 119.24 | 162.51 | 663.56 | 856.77 | 1.256 | 1.206 |
| 6/30/1992 | 5.72 | 100.61 | 17.59 | 119.24 | 162.68 | 666.58 | 860.35 | 1.166 | 1.206 |
| 7/31/1992 | 6.11 | 112.44 | 18.40 | 119.24 | 162.87 | 670.07 | 864.04 | 1.044 | 1.205 |
| 8/31/1992 | 6.07 | 108.36 | 17.84 | 119.24 | 163.05 | 673.43 | 867.74 | 1.083 | 1.204 |
| 9/30/1992 | 5.92 | 99.28 | 16.76 | 119.24 | 163.23 | 676.40 | 871.32 | 1.181 | 1.204 |
| 10/31/1992 | 5.71 | 99.12 | 17.36 | 119.24 | 163.41 | 679.48 | 875.01 | 1.183 | 1.204 |
| 11/30/1992 | 5.76 | 101.83 | 17.67 | 119.24 | 163.58 | 682.53 | 878.59 | 1.152 | 1.204 |
| 12/31/1992 | 5.61 | 73.97 | 13.19 | 87.44 | 163.76 | 684.82 | 881.30 | 1.157 | 1.204 |
| 1/31/1993 | 5.93 | 114.15 | 19.24 | 119.24 | 163.94 | 688.36 | 885.00 | 1.029 | 1.203 |
| 2/28/1993 | 6.03 | 122.72 | 20.35 | 119.24 | 164.11 | 691.80 | 888.33 | 0.958 | 1.202 |
| 3/31/1993 | 6.24 | 121.95 | 19.56 | 119.24 | 164.30 | 695.58 | 892.03 | 0.963 | 1.200 |
| 4/30/1993 | 6.47 | 122.07 | 18.86 | 119.24 | 164.50 | 699.24 | 895.61 | 0.962 | 1.199 |
| 5/31/1993 | 6.34 | 123.07 | 19.42 | 119.24 | 164.69 | 703.06 | 899.30 | 0.955 | 1.198 |
| 6/30/1993 | 6.42 | 127.38 | 19.85 | 119.24 | 164.89 | 706.88 | 902.88 | 0.923 | 1.197 |
| 7/31/1993 | 6.22 | 127.06 | 20.41 | 119.24 | 165.08 | 710.82 | 906.58 | 0.925 | 1.195 |
| 8/31/1993 | 6.47 | 114.85 | 17.74 | 119.24 | 165.28 | 714.38 | 910.27 | 1.022 | 1.194 |
| 9/30/1993 | 6.19 | 117.70 | 19.01 | 119.24 | 165.46 | 717.91 | 913.85 | 0.998 | 1.193 |
| 10/31/1993 | 6.31 | 126.57 | 20.05 | 119.24 | 165.66 | 721.83 | 917.55 | 0.929 | 1.192 |
| 11/30/1993 | 6.29 | 116.03 | 18.44 | 119.24 | 165.85 | 725.31 | 921.12 | 1.012 | 1.191 |
| 12/31/1993 | 6.11 | 110.71 | 18.13 | 119.24 | 166.04 | 728.75 | 924.82 | 1.060 | 1.191 |
| 1/31/1994 | 5.74 | 124.80 | 21.74 | 119.24 | 166.22 | 732.61 | 928.52 | 0.943 | 1.189 |
| 2/28/1994 | 5.92 | 113.84 | 19.22 | 119.24 | 166.38 | 735.80 | 931.86 | 1.032 | 1.189 |
| 3/31/1994 | 5.73 | 115.29 | 20.12 | 119.24 | 166.56 | 739.38 | 935.55 | 1.020 | 1.188 |
| 4/30/1994 | 5.53 | 112.01 | 20.26 | 119.24 | 166.73 | 742.74 | 939.13 | 1.050 | 1.187 |
| 5/31/1994 | 7.01 | 138.26 | 19.71 | 119.24 | 166.94 | 747.02 | 942.83 | 0.850 | 1.185 |
| 6/30/1994 | 7.17 | 143.38 | 20.01 | 119.24 | 167.16 | 751.32 | 946.40 | 0.820 | 1.183 |
| 7/31/1994 | 6.24 | 134.92 | 21.64 | 119.24 | 167.35 | 755.51 | 950.10 | 0.872 | 1.182 |
| 8/31/1994 | 6.15 | 125.29 | 20.38 | 119.24 | 167.54 | 759.39 | 953.80 | 0.938 | 1.181 |
| 9/30/1994 | 5.79 | 119.75 | 20.70 | 119.24 | 167.72 | 762.98 | 957.37 | 0.982 | 1.180 |
| 10/31/1994 | 6.15 | 121.22 | 19.70 | 119.24 | 167.91 | 766.74 | 961.07 | 0.969 | 1.179 |
| 11/30/1994 | 5.95 | 109.99 | 18.50 | 119.24 | 168.08 | 770.04 | 964.65 | 1.067 | 1.178 |
| 12/31/1994 | 5.70 | 118.53 | 20.79 | 119.24 | 168.26 | 773.71 | 968.34 | 0.992 | 1.177 |
| 1/31/1995 | 5.59 | 103.11 | 18.46 | 119.24 | 168.43 | 776.91 | 972.04 | 1.139 | 1.177 |
| 2/28/1995 | 5.97 | 121.94 | 20.41 | 119.24 | 168.60 | 780.32 | 975.38 | 0.964 | 1.176 |
| 3/31/1995 | 5.81 | 118.52 | 20.41 | 119.24 | 168.78 | 784.00 | 979.07 | 0.992 | 1.176 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 4/30/1995 | 5.93 | 118.99 | 20.05 | 119.24 | 168.96 | 787.57 | 982.65 | 0.988 | 1.175 |
| 5/31/1995 | 5.81 | 114.93 | 19.78 | 119.24 | 169.14 | 791.13 | 986.35 | 1.023 | 1.174 |
| 6/30/1995 | 5.18 | 106.60 | 20.59 | 119.24 | 169.30 | 794.33 | 989.92 | 1.103 | 1.174 |
| 7/31/1995 | 5.72 | 111.14 | 19.44 | 119.24 | 169.47 | 797.77 | 993.62 | 1.057 | 1.173 |
| 8/31/1995 | 5.96 | 122.26 | 20.53 | 119.24 | 169.66 | 801.56 | 997.32 | 0.962 | 1.172 |
| 9/30/1995 | 5.68 | 118.76 | 20.91 | 119.24 | 169.83 | 805.13 | 1000.89 | 0.990 | 1.172 |
| 10/31/1995 | 5.42 | 121.22 | 22.35 | 119.24 | 170.00 | 808.89 | 1004.59 | 0.971 | 1.171 |
| 11/30/1995 | 5.52 | 123.73 | 22.42 | 119.24 | 170.16 | 812.60 | 1008.17 | 0.951 | 1.170 |
| 12/31/1995 | 5.73 | 119.70 | 20.88 | 119.24 | 170.34 | 816.31 | 1011.86 | 0.982 | 1.169 |
| 1/31/1996 | 5.66 | 110.27 | 19.48 | 119.24 | 170.51 | 819.73 | 1015.56 | 1.065 | 1.169 |
| 2/29/1996 | 5.77 | 106.28 | 18.41 | 119.23 | 170.68 | 822.81 | 1019.02 | 1.105 | 1.168 |
| 3/31/1996 | 5.74 | 111.67 | 19.46 | 119.24 | 170.86 | 826.27 | 1022.71 | 1.052 | 1.168 |
| 4/30/1996 | 5.87 | 114.72 | 19.56 | 119.24 | 171.04 | 829.71 | 1026.29 | 1.024 | 1.167 |
| 5/31/1996 | 5.42 | 95.85 | 17.70 | 119.24 | 171.20 | 832.68 | 1029.99 | 1.224 | 1.168 |
| 6/30/1996 | 6.58 | 111.85 | 16.99 | 119.24 | 171.40 | 836.04 | 1033.56 | 1.048 | 1.167 |
| 7/31/1996 | 6.06 | 110.39 | 18.21 | 119.24 | 171.59 | 839.46 | 1037.26 | 1.063 | 1.167 |
| 8/31/1996 | 5.89 | 109.37 | 18.56 | 119.24 | 171.77 | 842.85 | 1040.96 | 1.073 | 1.166 |
| 9/30/1996 | 5.72 | 115.25 | 20.15 | 119.24 | 171.94 | 846.31 | 1044.53 | 1.020 | 1.166 |
| 10/31/1996 | 5.63 | 105.44 | 18.72 | 119.24 | 172.12 | 849.58 | 1048.23 | 1.114 | 1.166 |
| 11/30/1996 | 5.75 | 109.08 | 18.99 | 119.24 | 172.29 | 852.85 | 1051.81 | 1.077 | 1.165 |
| 12/31/1996 | 5.67 | 105.58 | 18.62 | 119.24 | 172.47 | 856.12 | 1055.50 | 1.112 | 1.165 |
| 1/31/1997 | 5.46 | 103.09 | 18.86 | 119.24 | 172.64 | 859.32 | 1059.20 | 1.139 | 1.165 |
| 2/28/1997 | 5.27 | 101.69 | 19.29 | 119.24 | 172.78 | 862.17 | 1062.54 | 1.155 | 1.165 |
| 3/31/1997 | 5.45 | 107.37 | 19.71 | 119.24 | 172.95 | 865.49 | 1066.23 | 1.094 | 1.165 |
| 4/30/1997 | 5.56 | 104.55 | 18.82 | 119.24 | 173.12 | 868.63 | 1069.81 | 1.123 | 1.164 |
| 5/31/1997 | 5.71 | 104.56 | 18.30 | 119.24 | 173.30 | 871.87 | 1073.51 | 1.123 | 1.164 |
| 6/30/1997 | 5.35 | 92.88 | 17.37 | 119.24 | 173.46 | 874.66 | 1077.09 | 1.263 | 1.165 |
| 7/31/1997 | 5.10 | 93.70 | 18.38 | 119.24 | 173.61 | 877.56 | 1080.78 | 1.253 | 1.165 |
| 8/31/1997 | 5.09 | 82.45 | 16.20 | 115.39 | 173.77 | 880.12 | 1084.36 | 1.375 | 1.166 |
| 9/30/1997 | 4.93 | 90.61 | 18.37 | 119.24 | 173.92 | 882.84 | 1087.94 | 1.295 | 1.166 |
| 10/31/1997 | 4.75 | 90.50 | 19.07 | 119.24 | 174.07 | 885.64 | 1091.63 | 1.298 | 1.166 |
| 11/30/1997 | 4.74 | 77.28 | 16.31 | 119.24 | 174.21 | 887.96 | 1095.21 | 1.516 | 1.167 |
| 12/31/1997 | 4.77 | 85.98 | 18.02 | 119.24 | 174.36 | 890.63 | 1098.91 | 1.365 | 1.168 |
| 1/31/1998 | 4.65 | 88.06 | 18.93 | 119.24 | 174.50 | 893.36 | 1102.60 | 1.334 | 1.168 |
| 2/28/1998 | 4.57 | 80.87 | 17.71 | 119.24 | 174.63 | 895.62 | 1105.94 | 1.451 | 1.169 |
| 3/31/1998 | 4.74 | 83.09 | 17.55 | 119.24 | 174.78 | 898.20 | 1109.64 | 1.412 | 1.170 |
| 4/30/1998 | 4.68 | 100.06 | 21.36 | 119.24 | 174.92 | 901.20 | 1113.21 | 1.176 | 1.170 |
| 5/31/1998 | 4.61 | 107.33 | 23.27 | 119.24 | 175.06 | 904.53 | 1116.91 | 1.097 | 1.169 |
| 6/30/1998 | 4.78 | 106.44 | 22.27 | 119.24 | 175.20 | 907.72 | 1120.49 | 1.106 | 1.169 |
| 7/31/1998 | 4.68 | 98.10 | 20.98 | 119.24 | 175.35 | 910.76 | 1124.18 | 1.199 | 1.169 |
| 8/31/1998 | 4.85 | 101.36 | 20.91 | 119.24 | 175.50 | 913.90 | 1127.88 | 1.160 | 1.169 |
| 9/30/1998 | 4.77 | 105.02 | 22.00 | 119.24 | 175.64 | 917.05 | 1131.46 | 1.121 | 1.169 |
| 10/31/1998 | 4.86 | 109.50 | 22.54 | 119.24 | 175.79 | 920.45 | 1135.15 | 1.075 | 1.169 |
| 11/30/1998 | 4.56 | 95.18 | 20.87 | 119.24 | 175.93 | 923.30 | 1138.73 | 1.236 | 1.169 |
| 12/31/1998 | 4.43 | 98.95 | 22.32 | 119.24 | 176.07 | 926.37 | 1142.43 | 1.190 | 1.169 |
| 1/31/1999 | 4.50 | 104.64 | 23.25 | 119.24 | 176.21 | 929.61 | 1146.12 | 1.125 | 1.169 |
| 2/28/1999 | 4.02 | 80.05 | 19.92 | 119.24 | 176.32 | 931.86 | 1149.46 | 1.468 | 1.170 |
| 3/31/1999 | 4.21 | 91.26 | 21.70 | 119.24 | 176.45 | 934.69 | 1153.16 | 1.289 | 1.170 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 4/30/1999 | 4.20 | 92.84 | 22.10 | 119.24 | 176.57 | 937.47 | 1156.73 | 1.268 | 1.170 |
| 5/31/1999 | 4.10 | 86.40 | 21.09 | 119.24 | 176.70 | 940.15 | 1160.43 | 1.361 | 1.171 |
| 6/30/1999 | 3.71 | 84.77 | 22.84 | 119.24 | 176.81 | 942.69 | 1164.01 | 1.389 | 1.171 |
| 7/31/1999 | 4.16 | 105.56 | 25.39 | 119.24 | 176.94 | 945.96 | 1167.70 | 1.117 | 1.171 |
| 8/31/1999 | 4.23 | 111.86 | 26.44 | 119.24 | 177.07 | 949.43 | 1171.40 | 1.054 | 1.171 |
| 9/30/1999 | 4.24 | 100.67 | 23.75 | 119.24 | 177.20 | 952.45 | 1174.98 | 1.170 | 1.171 |
| 10/31/1999 | 4.61 | 108.75 | 23.59 | 119.24 | 177.34 | 955.82 | 1178.67 | 1.083 | 1.170 |
| 11/30/1999 | 4.41 | 106.76 | 24.21 | 107.31 | 177.48 | 959.03 | 1181.89 | 0.993 | 1.170 |
| 12/31/1999 | 4.56 | 109.25 | 23.97 | 79.49 | 177.62 | 962.41 | 1184.36 | 0.719 | 1.168 |
| 1/31/2000 | 4.30 | 108.16 | 25.18 | 79.49 | 177.75 | 965.77 | 1186.82 | 0.727 | 1.167 |
| 2/29/2000 | 3.74 | 89.92 | 24.04 | 79.49 | 177.86 | 968.37 | 1189.13 | 0.874 | 1.166 |
| 3/31/2000 | 3.48 | 80.32 | 23.08 | 79.49 | 177.97 | 970.86 | 1191.59 | 0.977 | 1.166 |
| 4/30/2000 | 3.44 | 86.70 | 25.24 | 79.49 | 178.07 | 973.46 | 1193.98 | 0.906 | 1.165 |
| 5/31/2000 | 3.13 | 76.53 | 24.45 | 79.49 | 178.17 | 975.84 | 1196.44 | 1.027 | 1.165 |
| 6/30/2000 | 3.61 | 92.26 | 25.59 | 79.49 | 178.27 | 978.60 | 1198.83 | 0.852 | 1.164 |
| 7/31/2000 | 3.76 | 81.23 | 21.60 | 79.49 | 178.39 | 981.12 | 1201.29 | 0.966 | 1.163 |
| 8/31/2000 | 3.28 | 79.03 | 24.08 | 79.49 | 178.49 | 983.57 | 1203.75 | 0.994 | 1.163 |
| 9/30/2000 | 3.42 | 77.21 | 22.56 | 79.49 | 178.60 | 985.89 | 1206.14 | 1.016 | 1.162 |
| 10/31/2000 | 3.86 | 95.15 | 24.63 | 79.49 | 178.72 | 988.84 | 1208.60 | 0.826 | 1.162 |
| 11/30/2000 | 3.34 | 97.24 | 29.14 | 79.49 | 178.82 | 991.76 | 1210.99 | 0.809 | 1.161 |
| 12/31/2000 | 3.40 | 96.54 | 28.42 | 79.49 | 178.92 | 994.75 | 1213.45 | 0.815 | 1.160 |
| 1/31/2001 | 3.22 | 88.34 | 27.41 | 79.49 | 179.02 | 997.49 | 1215.92 | 0.890 | 1.159 |
| 2/28/2001 | 3.18 | 85.75 | 26.98 | 79.49 | 179.11 | 999.89 | 1218.14 | 0.917 | 1.158 |
| 3/31/2001 | 3.05 | 94.42 | 30.97 | 79.49 | 179.20 | 1002.81 | 1220.61 | 0.834 | 1.157 |
| 4/30/2001 | 3.04 | 91.67 | 30.12 | 79.49 | 179.30 | 1005.57 | 1222.99 | 0.859 | 1.157 |
| 5/31/2001 | 3.02 | 83.04 | 27.53 | 79.49 | 179.39 | 1008.14 | 1225.45 | 0.947 | 1.156 |
| 6/30/2001 | 2.80 | 90.59 | 32.37 | 79.49 | 179.47 | 1010.86 | 1227.84 | 0.870 | 1.155 |
| 7/31/2001 | 2.82 | 89.75 | 31.85 | 79.49 | 179.56 | 1013.64 | 1230.30 | 0.878 | 1.155 |
| 8/31/2001 | 2.42 | 83.38 | 34.49 | 79.49 | 179.64 | 1016.22 | 1232.77 | 0.945 | 1.154 |
| 9/30/2001 | 2.79 | 88.00 | 31.49 | 79.49 | 179.72 | 1018.86 | 1235.15 | 0.895 | 1.153 |
| 10/31/2001 | 3.05 | 81.32 | 26.68 | 79.49 | 179.81 | 1021.39 | 1237.62 | 0.967 | 1.153 |
| 11/30/2001 | 2.96 | 80.60 | 27.23 | 79.49 | 179.90 | 1023.80 | 1240.00 | 0.976 | 1.153 |
| 12/31/2001 | 2.95 | 84.35 | 28.62 | 79.49 | 179.99 | 1026.42 | 1242.47 | 0.933 | 1.152 |
| 1/31/2002 | 2.92 | 83.35 | 28.50 | 79.49 | 180.08 | 1029.00 | 1244.93 | 0.944 | 1.152 |
| 2/28/2002 | 2.63 | 90.99 | 34.66 | 79.49 | 180.16 | 1031.55 | 1247.16 | 0.866 | 1.151 |
| 3/31/2002 | 2.68 | 103.92 | 38.74 | 79.49 | 180.24 | 1034.77 | 1249.62 | 0.759 | 1.150 |
| 4/30/2002 | 2.85 | 102.19 | 35.92 | 79.49 | 180.33 | 1037.84 | 1252.00 | 0.772 | 1.149 |
| 5/31/2002 | 2.65 | 70.18 | 26.51 | 79.50 | 180.41 | 1040.01 | 1254.47 | 1.121 | 1.149 |
| 6/30/2002 | 2.58 | 67.83 | 26.26 | 76.20 | 180.49 | 1042.05 | 1256.75 | 1.111 | 1.149 |
| 7/31/2002 | 2.25 | 52.48 | 23.27 | 61.81 | 180.56 | 1043.67 | 1258.67 | 1.163 | 1.149 |
| 8/31/2002 | 2.42 | 61.71 | 25.45 | 44.94 | 180.63 | 1045.59 | 1260.06 | 0.720 | 1.148 |
| 9/30/2002 | 1.98 | 51.53 | 26.05 | 15.28 | 180.69 | 1047.13 | 1260.52 | 0.293 | 1.147 |
| 10/31/2002 | 1.79 | 41.81 | 23.39 | | 180.75 | 1048.43 | 1260.52 | 0.000 | 1.145 |
| 11/30/2002 | 4.60 | 52.50 | 11.41 | | 180.88 | 1050.00 | 1260.52 | 0.000 | 1.144 |
| 12/31/2002 | 11.69 | 114.05 | 9.76 | | 181.25 | 1053.54 | 1260.52 | 0.000 | 1.140 |
| 1/31/2003 | 10.46 | 112.75 | 10.78 | | 181.57 | 1057.03 | 1260.52 | 0.000 | 1.136 |
| 2/28/2003 | 10.44 | 117.32 | 11.24 | 1.97 | 181.86 | 1060.32 | 1260.58 | 0.016 | 1.133 |
| 3/31/2003 | 9.49 | 121.78 | 12.84 | 13.19 | 182.16 | 1064.09 | 1260.99 | 0.106 | 1.129 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 4/30/2003 | 9.40 | 124.57 | 13.25 | 5.05 | 182.44 | 1067.83 | 1261.14 | 0.040 | 1.125 |
| 5/31/2003 | 9.34 | 124.78 | 13.37 | | 182.73 | 1071.70 | 1261.14 | 0.000 | 1.121 |
| 6/30/2003 | 9.22 | 124.38 | 13.49 | | 183.00 | 1075.43 | 1261.14 | 0.000 | 1.118 |
| 7/31/2003 | 8.66 | 118.28 | 13.65 | | 183.27 | 1079.10 | 1261.14 | 0.000 | 1.114 |
| 8/31/2003 | 8.71 | 123.80 | 14.21 | | 183.54 | 1082.94 | 1261.14 | 0.000 | 1.110 |
| 9/30/2003 | 8.40 | 123.79 | 14.74 | | 183.80 | 1086.65 | 1261.14 | 0.000 | 1.106 |
| 10/31/2003 | 8.04 | 153.94 | 19.14 | | 184.04 | 1091.42 | 1261.14 | 0.000 | 1.102 |
| 11/30/2003 | 9.53 | 231.58 | 24.29 | | 184.33 | 1098.37 | 1261.14 | 0.000 | 1.095 |
| 12/31/2003 | 9.47 | 224.12 | 23.67 | | 184.62 | 1105.32 | 1261.14 | 0.000 | 1.088 |
| 1/31/2004 | 9.11 | 230.88 | 25.36 | | 184.91 | 1112.47 | 1261.14 | 0.000 | 1.082 |
| 2/29/2004 | 8.63 | 219.14 | 25.38 | | 185.16 | 1118.83 | 1261.14 | 0.000 | 1.076 |
| 3/31/2004 | 8.61 | 222.02 | 25.78 | | 185.42 | 1125.71 | 1261.14 | 0.000 | 1.069 |
| 4/30/2004 | 8.38 | 213.07 | 25.44 | | 185.68 | 1132.10 | 1261.14 | 0.000 | 1.064 |
| 5/31/2004 | 10.13 | 213.09 | 21.04 | | 185.99 | 1138.71 | 1261.14 | 0.000 | 1.058 |
| 6/30/2004 | 9.17 | 210.82 | 22.99 | | 186.26 | 1145.03 | 1261.14 | 0.000 | 1.052 |
| 7/31/2004 | 7.87 | 207.52 | 26.38 | | 186.51 | 1151.47 | 1261.14 | 0.000 | 1.046 |
| 8/31/2004 | 8.32 | 218.42 | 26.24 | | 186.77 | 1158.24 | 1261.14 | 0.000 | 1.040 |
| 9/30/2004 | 7.65 | 217.78 | 28.47 | | 187.00 | 1164.77 | 1261.14 | 0.000 | 1.035 |
| 10/31/2004 | 7.46 | 211.06 | 28.28 | | 187.23 | 1171.31 | 1261.14 | 0.000 | 1.029 |
| 11/30/2004 | 8.89 | 204.57 | 23.00 | | 187.49 | 1177.45 | 1261.14 | 0.000 | 1.024 |
| 12/31/2004 | 8.42 | 205.07 | 24.34 | | 187.75 | 1183.81 | 1261.14 | 0.000 | 1.019 |
| 1/31/2005 | 8.42 | 213.03 | 25.30 | | 188.02 | 1190.41 | 1261.14 | 0.000 | 1.013 |
| 2/28/2005 | 8.44 | 209.43 | 24.83 | | 188.25 | 1196.28 | 1261.14 | 0.000 | 1.008 |
| 3/31/2005 | 8.57 | 211.97 | 24.74 | | 188.52 | 1202.85 | 1261.14 | 0.000 | 1.003 |
| 4/30/2005 | 9.61 | 209.14 | 21.77 | | 188.81 | 1209.12 | 1261.14 | 0.000 | 0.998 |
| 5/31/2005 | 8.57 | 209.49 | 24.45 | | 189.07 | 1215.62 | 1261.14 | 0.000 | 0.993 |
| 6/30/2005 | 7.10 | 204.50 | 28.82 | | 189.28 | 1221.75 | 1261.14 | 0.000 | 0.988 |
| 7/31/2005 | 8.25 | 208.35 | 25.27 | | 189.54 | 1228.21 | 1261.14 | 0.000 | 0.983 |
| 8/31/2005 | 7.65 | 215.90 | 28.23 | | 189.78 | 1234.90 | 1261.14 | 0.000 | 0.978 |
| 9/30/2005 | 8.22 | 213.34 | 25.96 | | 190.02 | 1241.30 | 1261.14 | 0.000 | 0.973 |
| 10/31/2005 | 8.14 | 216.14 | 26.56 | | 190.28 | 1248.00 | 1261.14 | 0.000 | 0.968 |
| 11/30/2005 | 7.58 | 214.80 | 28.32 | | 190.50 | 1254.45 | 1261.14 | 0.000 | 0.963 |
| 12/31/2005 | 7.37 | 212.29 | 28.81 | | 190.73 | 1261.03 | 1261.14 | 0.000 | 0.958 |
| 1/31/2006 | 6.72 | 207.56 | 30.90 | | 190.94 | 1267.46 | 1261.14 | 0.000 | 0.953 |
| 2/28/2006 | 6.32 | 206.42 | 32.66 | | 191.12 | 1273.24 | 1261.14 | 0.000 | 0.949 |
| 3/31/2006 | 6.35 | 195.67 | 30.82 | | 191.31 | 1279.31 | 1261.14 | 0.000 | 0.945 |
| 4/30/2006 | 6.99 | 189.29 | 27.06 | | 191.52 | 1284.99 | 1261.14 | 0.000 | 0.941 |
| 5/31/2006 | 5.66 | 189.89 | 33.57 | | 191.70 | 1290.87 | 1261.14 | 0.000 | 0.937 |
| 6/30/2006 | 5.30 | 178.78 | 33.70 | | 191.86 | 1296.24 | 1261.14 | 0.000 | 0.933 |
| 7/31/2006 | 5.87 | 175.02 | 29.81 | | 192.04 | 1301.66 | 1261.14 | 0.000 | 0.929 |
| 8/31/2006 | 5.78 | 169.76 | 29.38 | | 192.22 | 1306.93 | 1261.14 | 0.000 | 0.926 |
| 9/30/2006 | 5.87 | 177.12 | 30.19 | | 192.40 | 1312.24 | 1261.14 | 0.000 | 0.922 |
| 10/31/2006 | 4.97 | 167.28 | 33.65 | | 192.55 | 1317.42 | 1261.14 | 0.000 | 0.918 |
| 11/30/2006 | 4.95 | 170.15 | 34.38 | | 192.70 | 1322.53 | 1261.14 | 0.000 | 0.915 |
| 12/31/2006 | 5.29 | 177.67 | 33.58 | | 192.86 | 1328.04 | 1261.14 | 0.000 | 0.911 |
| 1/31/2007 | 4.76 | 184.70 | 38.79 | | 193.01 | 1333.76 | 1261.14 | 0.000 | 0.908 |
| 2/28/2007 | 4.00 | 192.66 | 48.15 | | 193.12 | 1339.16 | 1261.14 | 0.000 | 0.904 |
| 3/31/2007 | 3.79 | 184.15 | 48.59 | | 193.24 | 1344.87 | 1261.14 | 0.000 | 0.900 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 4/30/2007 | 4.03 | 185.55 | 46.09 | | 193.36 | 1350.43 | 1261.14 | 0.000 | 0.897 |
| 5/31/2007 | 5.59 | 187.71 | 33.55 | | 193.53 | 1356.25 | 1261.14 | 0.000 | 0.893 |
| 6/30/2007 | 6.39 | 183.48 | 28.72 | | 193.72 | 1361.76 | 1261.14 | 0.000 | 0.890 |
| 7/31/2007 | 6.26 | 174.45 | 27.85 | | 193.92 | 1367.16 | 1261.14 | 0.000 | 0.886 |
| 8/31/2007 | 6.81 | 183.27 | 26.91 | | 194.13 | 1372.84 | 1261.14 | 0.000 | 0.883 |
| 9/30/2007 | 5.99 | 174.66 | 29.14 | | 194.31 | 1378.08 | 1261.14 | 0.000 | 0.879 |
| 10/31/2007 | 6.49 | 213.11 | 32.82 | | 194.51 | 1384.69 | 1261.14 | 0.000 | 0.875 |
| 11/30/2007 | 6.29 | 210.87 | 33.50 | | 194.70 | 1391.02 | 1261.14 | 0.000 | 0.871 |
| 12/31/2007 | 5.96 | 209.36 | 35.15 | | 194.88 | 1397.51 | 1261.14 | 0.000 | 0.867 |
| 1/31/2008 | 5.99 | 210.62 | 35.14 | | 195.07 | 1404.04 | 1261.14 | 0.000 | 0.864 |
| 2/29/2008 | 4.98 | 205.80 | 41.32 | | 195.22 | 1410.01 | 1261.14 | 0.000 | 0.860 |
| 3/31/2008 | 5.04 | 208.71 | 41.38 | | 195.37 | 1416.48 | 1261.14 | 0.000 | 0.856 |
| 4/30/2008 | 5.12 | 211.98 | 41.40 | | 195.53 | 1422.83 | 1261.14 | 0.000 | 0.852 |
| 5/31/2008 | 5.17 | 204.98 | 39.68 | | 195.69 | 1429.19 | 1261.14 | 0.000 | 0.849 |
| 6/30/2008 | 4.67 | 190.58 | 40.79 | | 195.83 | 1434.91 | 1261.14 | 0.000 | 0.846 |
| 7/31/2008 | 4.41 | 193.67 | 43.89 | | 195.96 | 1440.91 | 1261.14 | 0.000 | 0.842 |
| 8/31/2008 | 4.89 | 193.00 | 39.45 | | 196.11 | 1446.89 | 1261.14 | 0.000 | 0.839 |
| 9/30/2008 | 2.17 | 114.08 | 52.54 | | 196.18 | 1450.32 | 1261.14 | 0.000 | 0.837 |
| 10/31/2008 | 1.16 | 86.19 | 74.32 | | 196.21 | 1452.99 | 1261.14 | 0.000 | 0.835 |
| 11/30/2008 | 4.16 | 219.97 | 52.92 | | 196.34 | 1459.59 | 1261.14 | 0.000 | 0.832 |
| 12/31/2008 | 3.83 | 214.37 | 55.91 | | 196.46 | 1466.23 | 1261.14 | 0.000 | 0.828 |
| 1/31/2009 | 4.11 | 224.76 | 54.75 | | 196.59 | 1473.20 | 1261.14 | 0.000 | 0.824 |
| 2/28/2009 | 4.15 | 223.48 | 53.80 | | 196.70 | 1479.46 | 1261.14 | 0.000 | 0.821 |
| 3/31/2009 | 4.36 | 229.51 | 52.65 | | 196.84 | 1486.57 | 1261.14 | 0.000 | 0.817 |
| 4/30/2009 | 4.17 | 224.86 | 53.89 | | 196.96 | 1493.32 | 1261.14 | 0.000 | 0.813 |
| 5/31/2009 | 3.86 | 220.21 | 57.06 | | 197.08 | 1500.14 | 1261.14 | 0.000 | 0.810 |
| 6/30/2009 | 4.21 | 208.42 | 49.51 | | 197.21 | 1506.40 | 1261.14 | 0.000 | 0.807 |
| 7/31/2009 | 4.40 | 222.19 | 50.53 | | 197.34 | 1513.28 | 1261.14 | 0.000 | 0.803 |
| 8/31/2009 | 4.85 | 213.90 | 44.12 | | 197.49 | 1519.92 | 1261.14 | 0.000 | 0.800 |
| 9/30/2009 | 5.11 | 216.18 | 42.31 | | 197.65 | 1526.40 | 1261.14 | 0.000 | 0.796 |
| 10/31/2009 | 5.11 | 215.83 | 42.23 | | 197.81 | 1533.09 | 1261.14 | 0.000 | 0.793 |
| 11/30/2009 | 4.96 | 214.54 | 43.24 | | 197.96 | 1539.53 | 1261.14 | 0.000 | 0.790 |
| 12/31/2009 | 4.99 | 218.34 | 43.79 | | 198.11 | 1546.30 | 1261.14 | 0.000 | 0.786 |
| 1/31/2010 | 4.82 | 218.21 | 45.26 | | 198.26 | 1553.06 | 1261.14 | 0.000 | 0.783 |
| 2/28/2010 | 4.84 | 215.51 | 44.54 | | 198.39 | 1559.10 | 1261.14 | 0.000 | 0.780 |
| 3/31/2010 | 4.55 | 210.98 | 46.38 | | 198.54 | 1565.64 | 1261.14 | 0.000 | 0.777 |
| 4/30/2010 | 4.02 | 194.93 | 48.46 | | 198.66 | 1571.48 | 1261.14 | 0.000 | 0.774 |
| 5/31/2010 | 4.26 | 201.91 | 47.34 | | 198.79 | 1577.74 | 1261.14 | 0.000 | 0.771 |
| 6/30/2010 | 4.59 | 211.40 | 46.10 | | 198.93 | 1584.09 | 1261.14 | 0.000 | 0.768 |
| 7/31/2010 | 4.61 | 212.71 | 46.15 | | 199.07 | 1590.68 | 1261.14 | 0.000 | 0.765 |
| 8/31/2010 | 4.81 | 219.03 | 45.53 | | 199.22 | 1597.47 | 1261.14 | 0.000 | 0.762 |
| 9/30/2010 | 4.65 | 214.40 | 46.08 | | 199.36 | 1603.90 | 1261.14 | 0.000 | 0.759 |
| 10/31/2010 | 3.95 | 190.61 | 48.29 | | 199.48 | 1609.81 | 1261.14 | 0.000 | 0.756 |
| 11/30/2010 | 4.29 | 215.05 | 50.15 | | 199.61 | 1616.26 | 1261.14 | 0.000 | 0.753 |
| 12/31/2010 | 4.42 | 224.92 | 50.88 | | 199.75 | 1623.23 | 1261.14 | 0.000 | 0.750 |
| 1/31/2011 | 4.56 | 230.68 | 50.62 | | 199.89 | 1630.39 | 1261.14 | 0.000 | 0.747 |
| 2/28/2011 | 4.59 | 234.92 | 51.16 | | 200.02 | 1636.96 | 1261.14 | 0.000 | 0.744 |
| 3/31/2011 | 4.54 | 235.21 | 51.79 | | 200.16 | 1644.25 | 1261.14 | 0.000 | 0.741 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 4/30/2011 | 4.38 | 227.44 | 51.88 | | 200.29 | 1651.08 | 1261.14 | 0.000 | 0.738 |
| 5/31/2011 | 4.05 | 218.64 | 54.04 | | 200.41 | 1657.86 | 1261.14 | 0.000 | 0.735 |
| 6/30/2011 | 3.98 | 213.25 | 53.58 | | 200.53 | 1664.25 | 1261.14 | 0.000 | 0.732 |
| 7/31/2011 | 3.16 | 203.22 | 64.23 | | 200.63 | 1670.55 | 1261.14 | 0.000 | 0.730 |
| 8/31/2011 | 3.81 | 203.93 | 53.53 | | 200.75 | 1676.87 | 1261.14 | 0.000 | 0.727 |
| 9/30/2011 | 4.05 | 220.70 | 54.44 | | 200.87 | 1683.50 | 1261.14 | 0.000 | 0.724 |
| 10/31/2011 | 3.67 | 192.99 | 52.53 | | 200.98 | 1689.48 | 1261.14 | 0.000 | 0.722 |
| 11/30/2011 | 2.12 | 109.10 | 51.41 | | 201.05 | 1692.75 | 1261.14 | 0.000 | 0.720 |
| 12/31/2011 | 2.98 | 159.84 | 53.68 | | 201.14 | 1697.71 | 1261.14 | 0.000 | 0.718 |