

DALY UNIT NO. 5
WATERFLOOD EOR PROJECT
ANNUAL REPORT FOR 2011

March 6, 2012

Tundra Oil and Gas Partnership

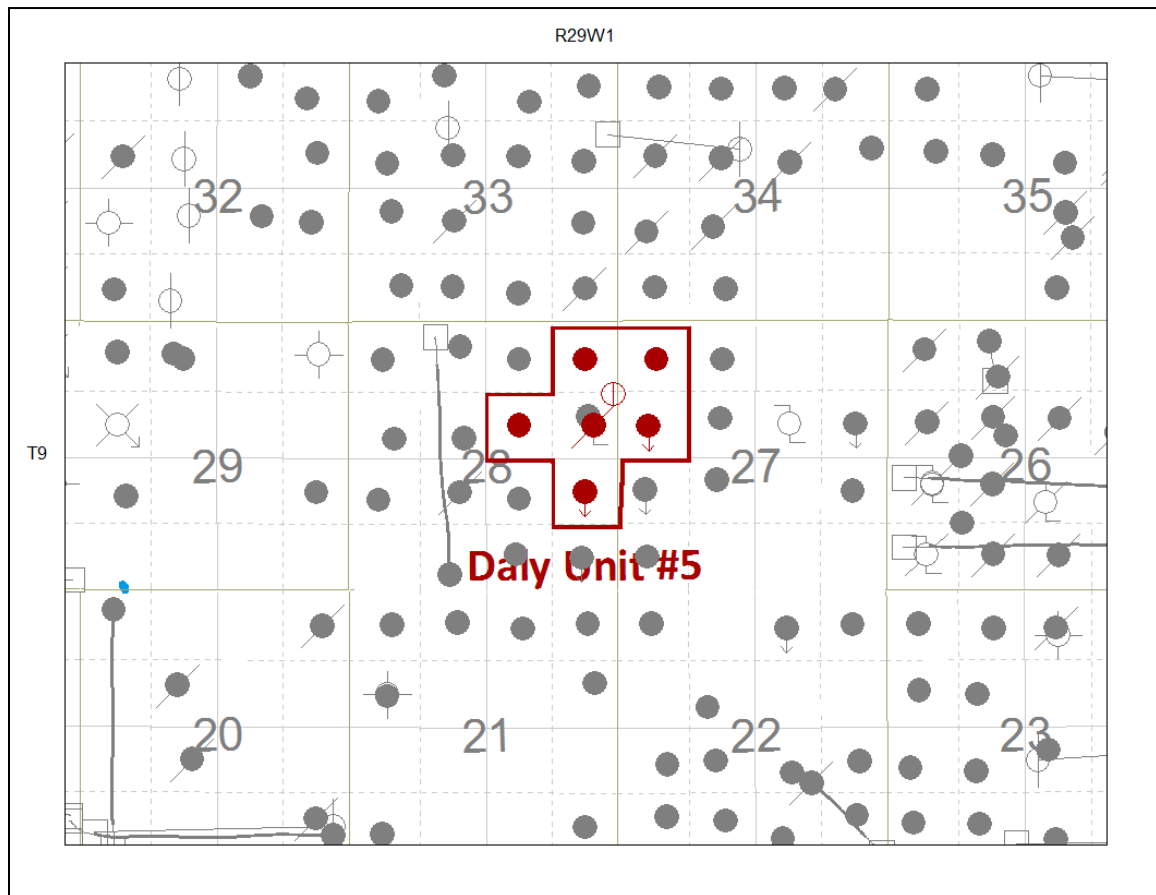
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INTRODUCTION

Daly Unit No. 5 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Board Order No. PM 63 effective August 1st, 1990 with Tundra Oil and Gas Operator. The EOR project area, outlined in maroon in Figure 1, contains 7 wells over 6 LSDs in Township 9, Range 29W1. Well list and well status is available in Appendix A.

Figure 1: Daly Unit No. 5 Area Outline



In accordance with Section 73 of the Manitoba Drilling and Production Regulation, Tundra submits the following 2011 Annual Progress Report for Daly Unit No. 5 as required by Board Order No PM 63.

DISCUSSION

Production History

For the wells included in Daly Unit No. 5, production started in July 1984 with 00/09-28-009-29W1/00. Oil production peaked at 17.8 m³/d in July of 1985. In 2011, the average production for the unit was 0.67 m³/d of oil and 8.93 m³/d of water, and the average WOR was 12.18 m³/m³. The oil production rate, injection rate, and WOR during each

month for each injection pattern and for whole project are presented in Appendix C. The rates and WOR are presented in Figure 2.

Figure 2: Daly Unit No. 5 Production/Injection Rates and WOR vs. Time

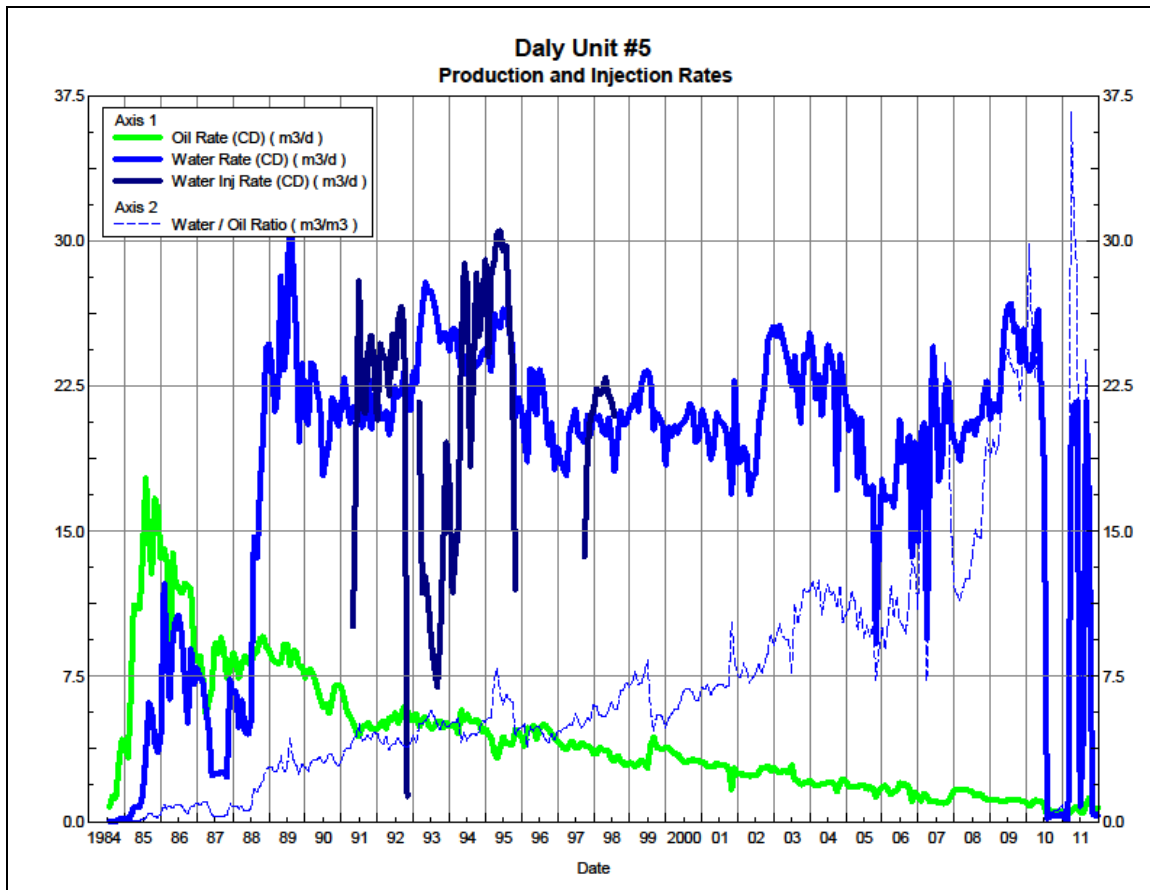
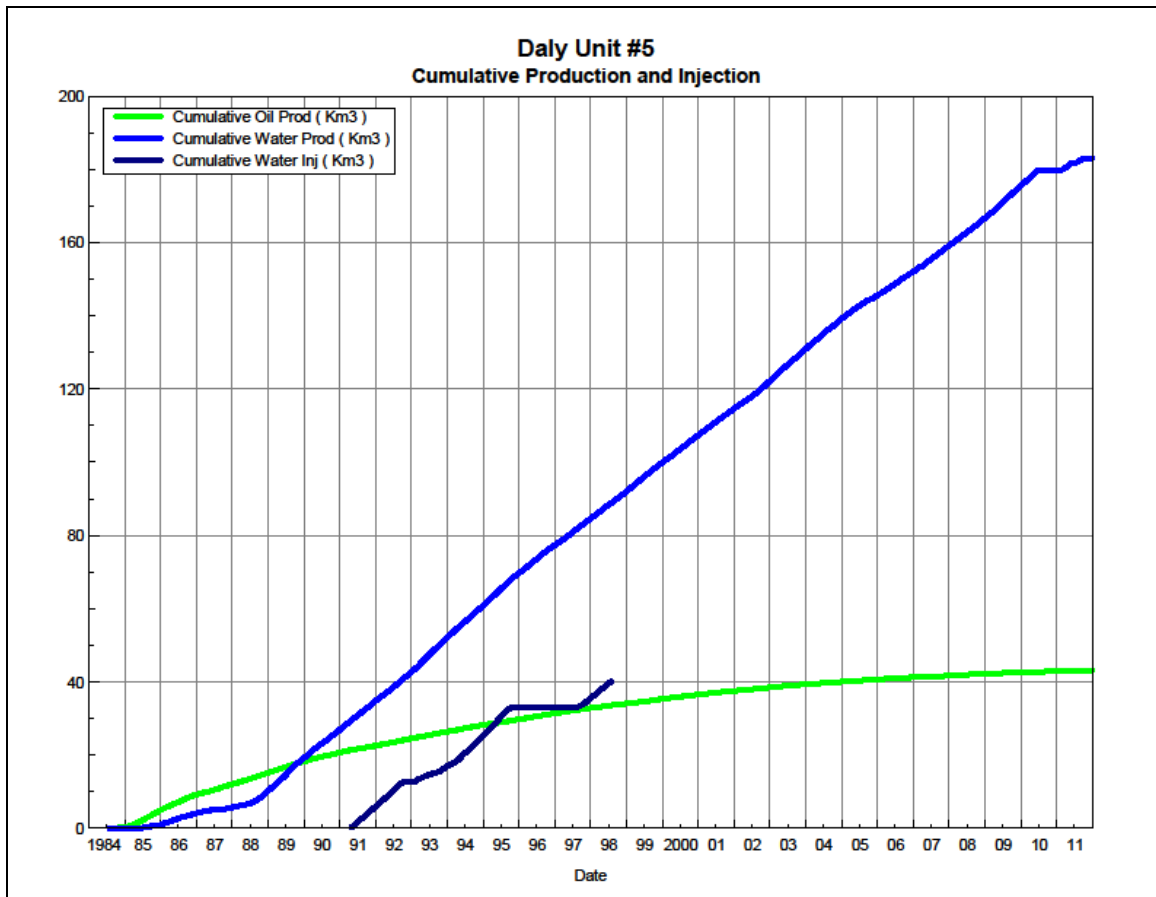


Figure 3 shows the cumulative production for Daly Unit No. 5 to the end of December 2011 as 43.1 E³m³ of oil, and 183 E³m³ of water. The cumulative water injected is over 40.2 E³m³. The cumulative volume of oil, and water produced and fluid injected for each injection pattern and for the whole project for each injection well is presented in Appendix C.

Figure 3: Daly Unit No. 5 Cumulative Oil, Water and Water Injected vs. Time



Waterflood History

As of December 2011 the Unit has no active vertical injector. Water was injected from February 1993 until July 1998.

Waterflood EOR Operating Strategy and Performance

Water Source and Quality

There is currently no injection in Daly unit No. 5.

Injection Wellhead Pressures

No wellhead injection pressure is available for Daly Unit No. 5.

Reservoir Pressure

No reservoir pressure measurements were taken at Daly Unit No. 5, in 2011.

Well Servicing

No maintenance was required on the 7 wells in Daly Unit No. 5, in 2011.

Voidage Replacement

Cumulative voidage for the Daly Unit No. 5 was 0.175 in December 2011. Calculation, plots and tables of the Voidage replacement ratio on a monthly and cumulative basis for each injection pattern and for the project area are presented in Appendix C.

Waterflood Performance Discussion

The original oil-in-place of the area within the Unit is estimated at 430,000 m³. The current recovery factor is 10.0%, given cumulative oil production of 43,100 m³. The ultimate expected recoverable reserve based on decline analysis is 43,500 m³ or an ultimate recovery factor of 10.1%.

The overall performance of this waterflood has been poor as indicated by the low recovery factor, and obvious lack of waterflood response in producers. The cumulative voidage of 0.175 supports that there has been insufficient water injection in the pool to provide good waterflood response.

The long term decline trends for oil and water are very stable and at a very low, nearly uneconomic, rate. The Unit will require the restarting of water injection in order to make this an effective waterflood. The evaluation of the waterflood potential of this Unit is tied to the general area the new facilities that have just been placed on line.

List of Appendices

Appendix A: Well List and Well Status

Appendix B: Daly Unit No. 5 Injection Pattern Summary

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

Appendix A

| UWI | Well Status |
|-----------------------|---------------------|
| 100/12-27-009-29W1/00 | Commingled |
| 100/13-27-009-29W1/00 | Capable of OIL Prod |
| 100/08-28-009-29W1/00 | Commingled |
| 100/09-28-009-29W1/00 | ABD Producer |
| 102/09-28-009-29W1/00 | Resumed COOP |
| 100/10-28-009-29W1/00 | Capable of OIL Prod |
| 100/16-28-009-29W1/00 | Capable of OIL Prod |

Appendix B

Daly Unit No. 5 Pattern Summary as of December 2011

| Pattern Name | Injector Location (009-29W) | Status | Supported Wells (009-29W1) | No. of Support ed Wells | Allocation Factor | Pattern Prod Start Month | Inj Start Month | Inj End Month | Oil Rate (m³/d) | Water Rate (m³/d) | WOR (m³/m³) | Water Injection (m³/d) | Cum Oil (E³m³) | Cum Water (E³m³) | Cum Inj Water (E³m³) | Monthly VRR | Cum VRR |
|-------------------------|--------------------------------|------------------------------|---|----------------------------|----------------------|-----------------------------------|--------------------|------------------|--------------------|-------------------------|----------------|------------------------------|-------------------|------------------------|----------------------------|----------------|---------|
| 02/09-28-09-29 Injector | 02/09-28 | Capable of Oil Production | 08-28, 09-28, 10-28, 12-17, 13-27, 16-28 | 6 | 1 | Jul 1984 | Apr 1991 | Jul 1998 | 0.71 | 0.30 | 0.42 | | 43.1 | 183.1 | 40.2 | | 0.18 |

Pattern: 02/09-28-009-29W1 Set: Daly Unit #5

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.42 m3/m3

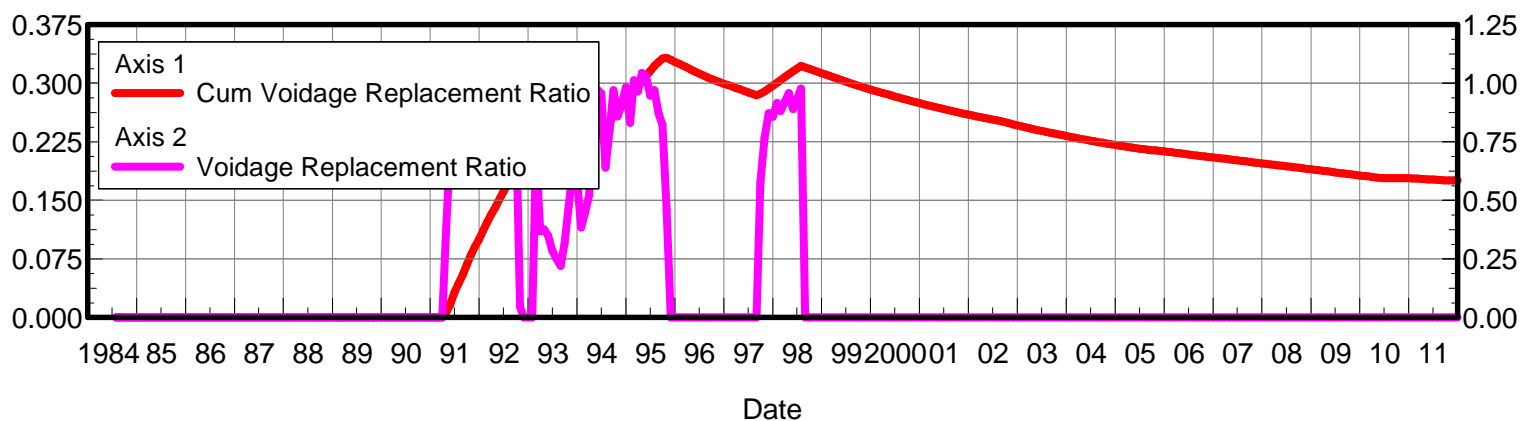
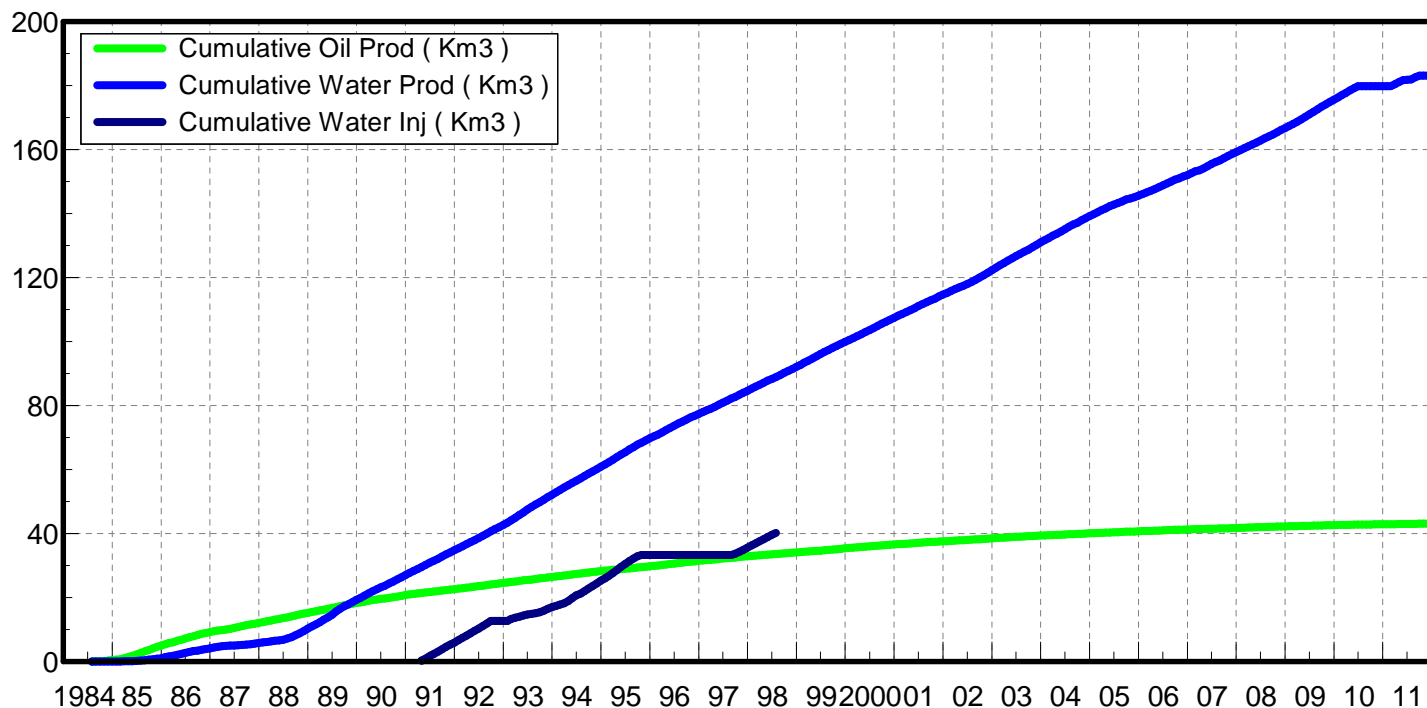
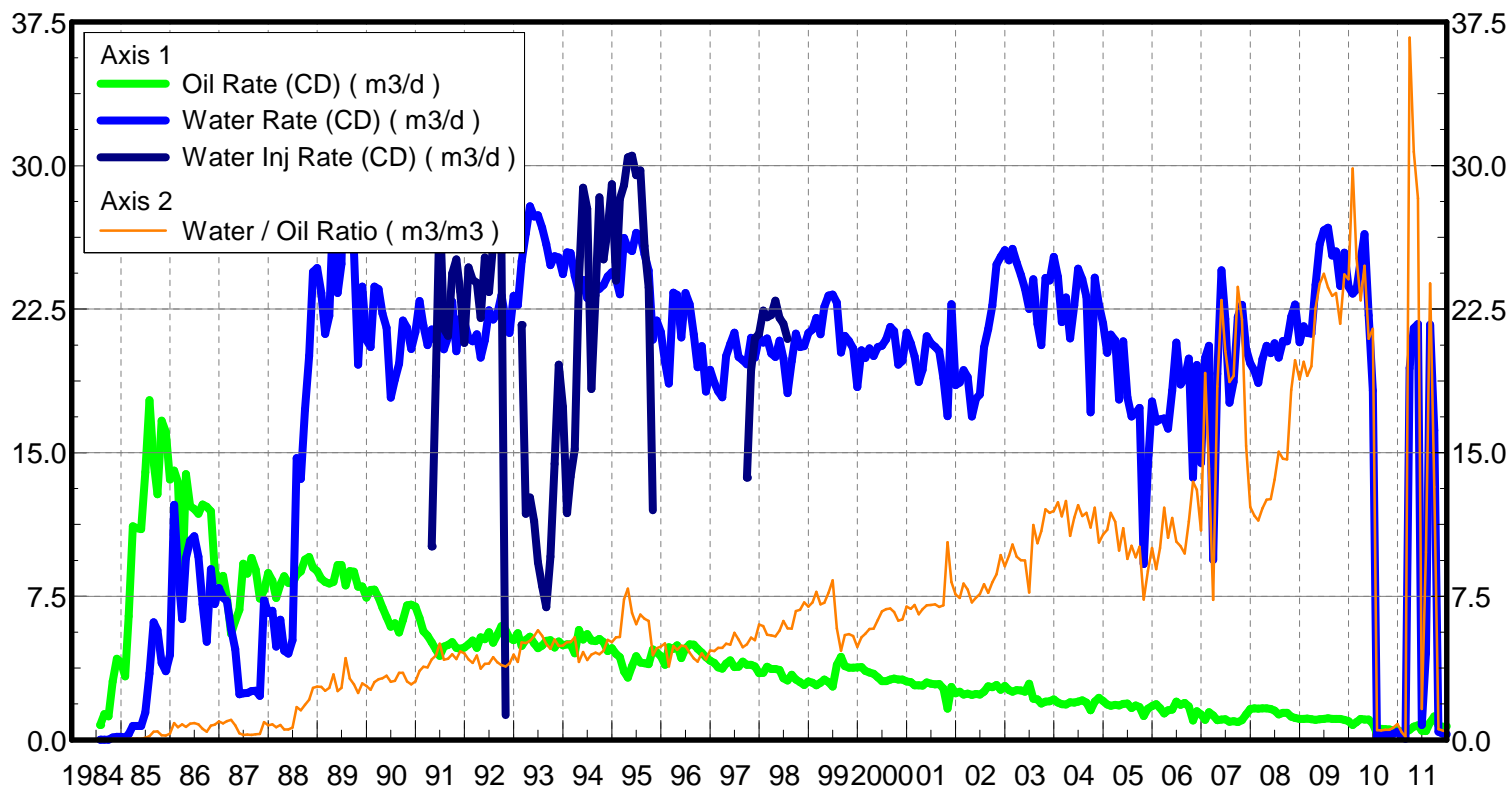
March 07, 2012

Operator: TUNDRA_OIL_&_GAS_LIMITED

Oil Rate (CD) : 0.71 m3/d

Water Rate (CD) : 0.30 m3/d

Water Inj Rate (CD) : 20.94 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 7/31/1984 | 0.77 | 0.01 | 0.01 | | 0.02 | 0.00 | 0.00 | 0.000 | 0.000 |
| 8/31/1984 | 1.34 | 0.01 | 0.00 | | 0.07 | 0.00 | 0.00 | 0.000 | 0.000 |
| 9/30/1984 | 1.23 | 0.01 | 0.01 | | 0.10 | 0.00 | 0.00 | 0.000 | 0.000 |
| 10/31/1984 | 3.05 | 0.13 | 0.04 | | 0.20 | 0.00 | 0.00 | 0.000 | 0.000 |
| 11/30/1984 | 4.24 | 0.16 | 0.04 | | 0.32 | 0.01 | 0.00 | 0.000 | 0.000 |
| 12/31/1984 | 4.05 | 0.16 | 0.04 | | 0.45 | 0.01 | 0.00 | 0.000 | 0.000 |
| 1/31/1985 | 3.32 | 0.13 | 0.04 | | 0.55 | 0.02 | 0.00 | 0.000 | 0.000 |
| 2/28/1985 | 6.46 | 0.29 | 0.04 | | 0.73 | 0.03 | 0.00 | 0.000 | 0.000 |
| 3/31/1985 | 11.16 | 0.73 | 0.07 | | 1.08 | 0.05 | 0.00 | 0.000 | 0.000 |
| 4/30/1985 | 11.05 | 0.73 | 0.07 | | 1.41 | 0.07 | 0.00 | 0.000 | 0.000 |
| 5/31/1985 | 11.00 | 0.73 | 0.07 | | 1.75 | 0.09 | 0.00 | 0.000 | 0.000 |
| 6/30/1985 | 13.98 | 1.43 | 0.10 | | 2.17 | 0.14 | 0.00 | 0.000 | 0.000 |
| 7/31/1985 | 17.75 | 3.47 | 0.20 | | 2.72 | 0.24 | 0.00 | 0.000 | 0.000 |
| 8/31/1985 | 14.50 | 6.15 | 0.42 | | 3.17 | 0.43 | 0.00 | 0.000 | 0.000 |
| 9/30/1985 | 12.82 | 5.72 | 0.45 | | 3.56 | 0.61 | 0.00 | 0.000 | 0.000 |
| 10/31/1985 | 16.68 | 4.02 | 0.24 | | 4.07 | 0.73 | 0.00 | 0.000 | 0.000 |
| 11/30/1985 | 16.09 | 3.59 | 0.22 | | 4.56 | 0.84 | 0.00 | 0.000 | 0.000 |
| 12/31/1985 | 13.60 | 4.44 | 0.33 | | 4.98 | 0.98 | 0.00 | 0.000 | 0.000 |
| 1/31/1986 | 14.06 | 12.27 | 0.87 | | 5.41 | 1.36 | 0.00 | 0.000 | 0.000 |
| 2/28/1986 | 13.46 | 8.84 | 0.66 | | 5.79 | 1.60 | 0.00 | 0.000 | 0.000 |
| 3/31/1986 | 7.72 | 6.31 | 0.82 | | 6.03 | 1.80 | 0.00 | 0.000 | 0.000 |
| 4/30/1986 | 13.88 | 9.50 | 0.68 | | 6.45 | 2.09 | 0.00 | 0.000 | 0.000 |
| 5/31/1986 | 12.22 | 10.41 | 0.85 | | 6.82 | 2.41 | 0.00 | 0.000 | 0.000 |
| 6/30/1986 | 12.07 | 10.64 | 0.88 | | 7.19 | 2.73 | 0.00 | 0.000 | 0.000 |
| 7/31/1986 | 11.80 | 9.57 | 0.81 | | 7.55 | 3.02 | 0.00 | 0.000 | 0.000 |
| 8/31/1986 | 12.29 | 7.08 | 0.58 | | 7.93 | 3.24 | 0.00 | 0.000 | 0.000 |
| 9/30/1986 | 12.17 | 5.12 | 0.42 | | 8.30 | 3.40 | 0.00 | 0.000 | 0.000 |
| 10/31/1986 | 11.95 | 8.92 | 0.75 | | 8.67 | 3.67 | 0.00 | 0.000 | 0.000 |
| 11/30/1986 | 8.86 | 7.09 | 0.80 | | 8.93 | 3.89 | 0.00 | 0.000 | 0.000 |
| 12/31/1986 | 8.29 | 7.93 | 0.96 | | 9.19 | 4.13 | 0.00 | 0.000 | 0.000 |
| 1/31/1987 | 8.57 | 7.43 | 0.87 | | 9.46 | 4.36 | 0.00 | 0.000 | 0.000 |
| 2/28/1987 | 7.44 | 7.24 | 0.97 | | 9.67 | 4.56 | 0.00 | 0.000 | 0.000 |
| 3/31/1987 | 5.54 | 5.81 | 1.05 | | 9.84 | 4.75 | 0.00 | 0.000 | 0.000 |
| 4/30/1987 | 6.22 | 4.74 | 0.76 | | 10.02 | 4.89 | 0.00 | 0.000 | 0.000 |
| 5/31/1987 | 6.80 | 2.38 | 0.35 | | 10.23 | 4.96 | 0.00 | 0.000 | 0.000 |
| 6/30/1987 | 9.21 | 2.44 | 0.26 | | 10.51 | 5.03 | 0.00 | 0.000 | 0.000 |
| 7/31/1987 | 8.68 | 2.45 | 0.28 | | 10.78 | 5.11 | 0.00 | 0.000 | 0.000 |
| 8/31/1987 | 9.50 | 2.55 | 0.27 | | 11.07 | 5.19 | 0.00 | 0.000 | 0.000 |
| 9/30/1987 | 8.89 | 2.56 | 0.29 | | 11.34 | 5.27 | 0.00 | 0.000 | 0.000 |
| 10/31/1987 | 7.39 | 2.30 | 0.31 | | 11.57 | 5.34 | 0.00 | 0.000 | 0.000 |
| 11/30/1987 | 7.81 | 7.32 | 0.94 | | 11.80 | 5.56 | 0.00 | 0.000 | 0.000 |
| 12/31/1987 | 8.72 | 6.63 | 0.76 | | 12.07 | 5.76 | 0.00 | 0.000 | 0.000 |
| 1/31/1988 | 8.31 | 6.74 | 0.81 | | 12.33 | 5.97 | 0.00 | 0.000 | 0.000 |
| 2/29/1988 | 7.41 | 4.88 | 0.66 | | 12.55 | 6.11 | 0.00 | 0.000 | 0.000 |
| 3/31/1988 | 8.11 | 6.27 | 0.77 | | 12.80 | 6.31 | 0.00 | 0.000 | 0.000 |
| 4/30/1988 | 8.55 | 4.66 | 0.55 | | 13.06 | 6.45 | 0.00 | 0.000 | 0.000 |
| 5/31/1988 | 8.20 | 4.50 | 0.55 | | 13.31 | 6.59 | 0.00 | 0.000 | 0.000 |
| 6/30/1988 | 8.17 | 5.21 | 0.64 | | 13.55 | 6.74 | 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 7/31/1988 | 8.62 | 14.71 | 1.71 | | 13.82 | 7.20 | 0.00 | 0.000 | 0.000 |
| 8/31/1988 | 8.80 | 13.64 | 1.55 | | 14.09 | 7.62 | 0.00 | 0.000 | 0.000 |
| 9/30/1988 | 9.42 | 17.26 | 1.83 | | 14.38 | 8.14 | 0.00 | 0.000 | 0.000 |
| 10/31/1988 | 9.55 | 20.06 | 2.10 | | 14.67 | 8.76 | 0.00 | 0.000 | 0.000 |
| 11/30/1988 | 9.01 | 24.44 | 2.71 | | 14.94 | 9.49 | 0.00 | 0.000 | 0.000 |
| 12/31/1988 | 8.83 | 24.64 | 2.79 | | 15.22 | 10.26 | 0.00 | 0.000 | 0.000 |
| 1/31/1989 | 8.42 | 23.34 | 2.77 | | 15.48 | 10.98 | 0.00 | 0.000 | 0.000 |
| 2/28/1989 | 8.26 | 21.20 | 2.57 | | 15.71 | 11.58 | 0.00 | 0.000 | 0.000 |
| 3/31/1989 | 8.17 | 22.15 | 2.71 | | 15.96 | 12.26 | 0.00 | 0.000 | 0.000 |
| 4/30/1989 | 8.24 | 28.19 | 3.42 | | 16.21 | 13.11 | 0.00 | 0.000 | 0.000 |
| 5/31/1989 | 9.14 | 23.34 | 2.55 | | 16.49 | 13.83 | 0.00 | 0.000 | 0.000 |
| 6/30/1989 | 9.14 | 24.86 | 2.72 | | 16.77 | 14.58 | 0.00 | 0.000 | 0.000 |
| 7/31/1989 | 8.06 | 34.46 | 4.28 | | 17.02 | 15.65 | 0.00 | 0.000 | 0.000 |
| 8/31/1989 | 8.82 | 28.27 | 3.21 | | 17.29 | 16.52 | 0.00 | 0.000 | 0.000 |
| 9/30/1989 | 8.79 | 25.52 | 2.90 | | 17.55 | 17.29 | 0.00 | 0.000 | 0.000 |
| 10/31/1989 | 7.99 | 19.59 | 2.45 | | 17.80 | 17.90 | 0.00 | 0.000 | 0.000 |
| 11/30/1989 | 8.01 | 23.68 | 2.96 | | 18.04 | 18.61 | 0.00 | 0.000 | 0.000 |
| 12/31/1989 | 7.42 | 20.88 | 2.81 | | 18.27 | 19.25 | 0.00 | 0.000 | 0.000 |
| 1/31/1990 | 7.83 | 20.52 | 2.62 | | 18.52 | 19.89 | 0.00 | 0.000 | 0.000 |
| 2/28/1990 | 7.85 | 23.68 | 3.01 | | 18.74 | 20.55 | 0.00 | 0.000 | 0.000 |
| 3/31/1990 | 7.43 | 23.54 | 3.17 | | 18.97 | 21.28 | 0.00 | 0.000 | 0.000 |
| 4/30/1990 | 6.91 | 22.27 | 3.22 | | 19.17 | 21.95 | 0.00 | 0.000 | 0.000 |
| 5/31/1990 | 6.41 | 21.52 | 3.36 | | 19.37 | 22.62 | 0.00 | 0.000 | 0.000 |
| 6/30/1990 | 5.90 | 17.88 | 3.03 | | 19.55 | 23.15 | 0.00 | 0.000 | 0.000 |
| 7/31/1990 | 6.09 | 18.84 | 3.09 | | 19.74 | 23.74 | 0.00 | 0.000 | 0.000 |
| 8/31/1990 | 5.61 | 19.65 | 3.50 | | 19.91 | 24.35 | 0.00 | 0.000 | 0.000 |
| 9/30/1990 | 6.27 | 21.90 | 3.50 | | 20.10 | 25.00 | 0.00 | 0.000 | 0.000 |
| 10/31/1990 | 7.04 | 21.53 | 3.06 | | 20.32 | 25.67 | 0.00 | 0.000 | 0.000 |
| 11/30/1990 | 7.06 | 20.42 | 2.89 | | 20.53 | 26.28 | 0.00 | 0.000 | 0.000 |
| 12/31/1990 | 6.97 | 21.31 | 3.06 | | 20.75 | 26.94 | 0.00 | 0.000 | 0.000 |
| 1/31/1991 | 6.36 | 22.92 | 3.60 | | 20.94 | 27.65 | 0.00 | 0.000 | 0.000 |
| 2/28/1991 | 5.67 | 21.64 | 3.81 | | 21.10 | 28.26 | 0.00 | 0.000 | 0.000 |
| 3/31/1991 | 5.44 | 20.62 | 3.79 | | 21.27 | 28.90 | 0.00 | 0.000 | 0.000 |
| 4/30/1991 | 5.10 | 21.43 | 4.21 | 10.10 | 21.42 | 29.54 | 0.30 | 0.376 | 0.006 |
| 5/31/1991 | 4.73 | 20.85 | 4.41 | 18.99 | 21.57 | 30.19 | 0.89 | 0.733 | 0.017 |
| 6/30/1991 | 4.39 | 22.02 | 5.02 | 27.91 | 21.70 | 30.85 | 1.73 | 1.045 | 0.032 |
| 7/31/1991 | 4.87 | 20.39 | 4.19 | 21.47 | 21.85 | 31.48 | 2.39 | 0.839 | 0.044 |
| 8/31/1991 | 4.96 | 21.04 | 4.24 | 21.10 | 22.01 | 32.13 | 3.05 | 0.801 | 0.055 |
| 9/30/1991 | 5.11 | 22.89 | 4.48 | 24.37 | 22.16 | 32.82 | 3.78 | 0.859 | 0.067 |
| 10/31/1991 | 4.81 | 20.29 | 4.22 | 25.10 | 22.31 | 33.45 | 4.56 | 0.987 | 0.080 |
| 11/30/1991 | 4.76 | 22.01 | 4.63 | 23.43 | 22.45 | 34.11 | 5.26 | 0.865 | 0.091 |
| 12/31/1991 | 4.82 | 21.81 | 4.53 | 20.74 | 22.60 | 34.79 | 5.90 | 0.769 | 0.100 |
| 1/31/1992 | 4.99 | 20.99 | 4.21 | 24.68 | 22.75 | 35.44 | 6.67 | 0.938 | 0.112 |
| 2/29/1992 | 5.18 | 20.81 | 4.02 | 24.03 | 22.91 | 36.04 | 7.37 | 0.912 | 0.122 |
| 3/31/1992 | 4.81 | 21.19 | 4.41 | 23.87 | 23.05 | 36.70 | 8.11 | 0.907 | 0.132 |
| 4/30/1992 | 5.36 | 19.97 | 3.72 | 22.03 | 23.21 | 37.30 | 8.77 | 0.857 | 0.141 |
| 5/31/1992 | 5.25 | 20.86 | 3.97 | 25.19 | 23.38 | 37.94 | 9.55 | 0.952 | 0.152 |
| 6/30/1992 | 5.63 | 22.44 | 3.98 | 23.40 | 23.55 | 38.62 | 10.25 | 0.822 | 0.161 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 7/31/1992 | 5.08 | 21.95 | 4.32 | 25.90 | 23.70 | 39.30 | 11.05 | 0.946 | 0.171 |
| 8/31/1992 | 5.50 | 22.26 | 4.05 | 26.61 | 23.87 | 39.99 | 11.88 | 0.946 | 0.181 |
| 9/30/1992 | 5.95 | 23.22 | 3.90 | 25.47 | 24.05 | 40.68 | 12.64 | 0.861 | 0.190 |
| 10/31/1992 | 5.73 | 21.95 | 3.83 | 1.29 | 24.23 | 41.36 | 12.68 | 0.046 | 0.189 |
| 11/30/1992 | 5.32 | 21.25 | 3.99 | | 24.39 | 42.00 | 12.68 | 0.000 | 0.186 |
| 12/31/1992 | 5.21 | 23.20 | 4.45 | | 24.55 | 42.72 | 12.68 | 0.000 | 0.184 |
| 1/31/1993 | 5.58 | 22.69 | 4.07 | | 24.72 | 43.42 | 12.68 | 0.000 | 0.182 |
| 2/28/1993 | 4.91 | 24.99 | 5.09 | 21.68 | 24.86 | 44.12 | 13.29 | 0.717 | 0.188 |
| 3/31/1993 | 5.23 | 26.45 | 5.06 | 11.81 | 25.02 | 44.94 | 13.65 | 0.368 | 0.190 |
| 4/30/1993 | 5.39 | 27.87 | 5.17 | 12.67 | 25.19 | 45.78 | 14.03 | 0.377 | 0.193 |
| 5/31/1993 | 5.04 | 27.34 | 5.42 | 11.42 | 25.34 | 46.63 | 14.39 | 0.349 | 0.195 |
| 6/30/1993 | 4.79 | 27.40 | 5.72 | 9.27 | 25.49 | 47.45 | 14.67 | 0.285 | 0.196 |
| 7/31/1993 | 4.92 | 26.75 | 5.44 | 8.03 | 25.64 | 48.28 | 14.92 | 0.251 | 0.197 |
| 8/31/1993 | 5.17 | 25.88 | 5.01 | 6.94 | 25.80 | 49.08 | 15.13 | 0.221 | 0.197 |
| 9/30/1993 | 5.21 | 24.80 | 4.76 | 9.57 | 25.96 | 49.82 | 15.42 | 0.315 | 0.199 |
| 10/31/1993 | 4.83 | 25.26 | 5.24 | 14.42 | 26.10 | 50.61 | 15.86 | 0.474 | 0.202 |
| 11/30/1993 | 5.13 | 25.19 | 4.91 | 19.60 | 26.26 | 51.36 | 16.45 | 0.639 | 0.207 |
| 12/31/1993 | 4.94 | 24.33 | 4.92 | 17.39 | 26.41 | 52.12 | 16.99 | 0.587 | 0.211 |
| 1/31/1994 | 4.98 | 25.46 | 5.11 | 11.84 | 26.57 | 52.91 | 17.36 | 0.384 | 0.213 |
| 2/28/1994 | 4.99 | 25.43 | 5.10 | 13.75 | 26.71 | 53.62 | 17.74 | 0.447 | 0.216 |
| 3/31/1994 | 4.53 | 24.24 | 5.35 | 15.19 | 26.85 | 54.37 | 18.21 | 0.522 | 0.219 |
| 4/30/1994 | 5.75 | 23.39 | 4.07 | 23.97 | 27.02 | 55.07 | 18.93 | 0.811 | 0.225 |
| 5/31/1994 | 5.24 | 24.04 | 4.59 | 28.84 | 27.18 | 55.82 | 19.83 | 0.973 | 0.234 |
| 6/30/1994 | 5.52 | 23.08 | 4.18 | 27.73 | 27.35 | 56.51 | 20.66 | 0.957 | 0.241 |
| 7/31/1994 | 5.19 | 23.11 | 4.45 | 18.32 | 27.51 | 57.23 | 21.23 | 0.639 | 0.245 |
| 8/31/1994 | 5.15 | 23.44 | 4.55 | 23.23 | 27.67 | 57.95 | 21.95 | 0.802 | 0.251 |
| 9/30/1994 | 5.27 | 23.56 | 4.47 | 28.33 | 27.83 | 58.66 | 22.80 | 0.970 | 0.258 |
| 10/31/1994 | 5.10 | 23.76 | 4.66 | 25.10 | 27.98 | 59.40 | 23.58 | 0.859 | 0.264 |
| 11/30/1994 | 4.63 | 24.22 | 5.23 | 26.67 | 28.12 | 60.12 | 24.38 | 0.914 | 0.270 |
| 12/31/1994 | 4.79 | 24.43 | 5.10 | 29.03 | 28.27 | 60.88 | 25.28 | 0.983 | 0.277 |
| 1/31/1995 | 4.49 | 24.06 | 5.35 | 24.00 | 28.41 | 61.63 | 26.02 | 0.831 | 0.283 |
| 2/28/1995 | 4.33 | 23.27 | 5.38 | 28.25 | 28.53 | 62.28 | 26.81 | 1.012 | 0.289 |
| 3/31/1995 | 3.57 | 26.22 | 7.35 | 28.97 | 28.64 | 63.09 | 27.71 | 0.965 | 0.296 |
| 4/30/1995 | 3.25 | 25.68 | 7.89 | 30.43 | 28.74 | 63.86 | 28.62 | 1.044 | 0.303 |
| 5/31/1995 | 3.85 | 25.53 | 6.63 | 30.52 | 28.86 | 64.65 | 29.57 | 1.029 | 0.310 |
| 6/30/1995 | 4.38 | 26.48 | 6.05 | 29.50 | 28.99 | 65.45 | 30.45 | 0.947 | 0.316 |
| 7/31/1995 | 4.03 | 26.36 | 6.54 | 29.74 | 29.12 | 66.26 | 31.37 | 0.970 | 0.322 |
| 8/31/1995 | 4.01 | 25.37 | 6.33 | 25.81 | 29.24 | 67.05 | 32.17 | 0.870 | 0.327 |
| 9/30/1995 | 3.95 | 24.52 | 6.21 | 23.63 | 29.36 | 67.79 | 32.88 | 0.822 | 0.332 |
| 10/31/1995 | 4.72 | 20.91 | 4.43 | 12.00 | 29.50 | 68.43 | 33.26 | 0.462 | 0.333 |
| 11/30/1995 | 4.58 | 21.90 | 4.79 | | 29.64 | 69.09 | 33.26 | 0.000 | 0.330 |
| 12/31/1995 | 4.37 | 21.31 | 4.88 | | 29.78 | 69.75 | 33.26 | 0.000 | 0.327 |
| 1/31/1996 | 3.92 | 19.75 | 5.04 | | 29.90 | 70.36 | 33.26 | 0.000 | 0.325 |
| 2/29/1996 | 4.84 | 18.61 | 3.84 | | 30.04 | 70.90 | 33.26 | 0.000 | 0.323 |
| 3/31/1996 | 4.75 | 23.36 | 4.91 | | 30.19 | 71.63 | 33.26 | 0.000 | 0.320 |
| 4/30/1996 | 4.94 | 23.24 | 4.71 | | 30.33 | 72.32 | 33.26 | 0.000 | 0.317 |
| 5/31/1996 | 4.26 | 21.02 | 4.93 | | 30.47 | 72.98 | 33.26 | 0.000 | 0.315 |
| 6/30/1996 | 4.77 | 23.34 | 4.89 | | 30.61 | 73.68 | 33.26 | 0.000 | 0.313 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 7/31/1996 | 4.99 | 22.76 | 4.56 | | 30.76 | 74.38 | 33.26 | 0.000 | 0.310 |
| 8/31/1996 | 4.97 | 21.17 | 4.26 | | 30.92 | 75.04 | 33.26 | 0.000 | 0.308 |
| 9/30/1996 | 4.76 | 19.46 | 4.09 | | 31.06 | 75.62 | 33.26 | 0.000 | 0.306 |
| 10/31/1996 | 4.55 | 20.57 | 4.52 | | 31.20 | 76.26 | 33.26 | 0.000 | 0.303 |
| 11/30/1996 | 4.33 | 18.20 | 4.20 | | 31.33 | 76.81 | 33.26 | 0.000 | 0.301 |
| 12/31/1996 | 4.14 | 19.33 | 4.67 | | 31.46 | 77.40 | 33.26 | 0.000 | 0.299 |
| 1/31/1997 | 4.02 | 18.65 | 4.64 | | 31.59 | 77.98 | 33.26 | 0.000 | 0.298 |
| 2/28/1997 | 3.79 | 18.21 | 4.81 | | 31.69 | 78.49 | 33.26 | 0.000 | 0.296 |
| 3/31/1997 | 3.73 | 17.89 | 4.80 | | 31.81 | 79.05 | 33.26 | 0.000 | 0.294 |
| 4/30/1997 | 3.99 | 20.04 | 5.02 | | 31.93 | 79.65 | 33.26 | 0.000 | 0.292 |
| 5/31/1997 | 4.15 | 20.68 | 4.98 | | 32.06 | 80.29 | 33.26 | 0.000 | 0.290 |
| 6/30/1997 | 3.81 | 21.27 | 5.59 | | 32.17 | 80.93 | 33.26 | 0.000 | 0.288 |
| 7/31/1997 | 3.81 | 20.00 | 5.25 | | 32.29 | 81.55 | 33.26 | 0.000 | 0.286 |
| 8/31/1997 | 4.09 | 19.83 | 4.84 | | 32.41 | 82.16 | 33.26 | 0.000 | 0.285 |
| 9/30/1997 | 3.93 | 19.61 | 4.99 | 13.70 | 32.53 | 82.75 | 33.67 | 0.575 | 0.286 |
| 10/31/1997 | 3.93 | 21.00 | 5.35 | 19.29 | 32.65 | 83.40 | 34.26 | 0.766 | 0.290 |
| 11/30/1997 | 3.83 | 19.96 | 5.21 | 20.97 | 32.77 | 84.00 | 34.89 | 0.871 | 0.293 |
| 12/31/1997 | 3.49 | 21.03 | 6.03 | 21.23 | 32.88 | 84.65 | 35.55 | 0.857 | 0.297 |
| 1/31/1998 | 3.50 | 20.76 | 5.94 | 22.42 | 32.99 | 85.30 | 36.25 | 0.915 | 0.301 |
| 2/28/1998 | 3.81 | 20.96 | 5.50 | 22.07 | 33.09 | 85.88 | 36.86 | 0.881 | 0.304 |
| 3/31/1998 | 3.70 | 20.18 | 5.46 | 22.19 | 33.21 | 86.51 | 37.55 | 0.919 | 0.308 |
| 4/30/1998 | 3.70 | 19.99 | 5.41 | 22.93 | 33.32 | 87.11 | 38.24 | 0.958 | 0.312 |
| 5/31/1998 | 3.65 | 20.85 | 5.71 | 22.03 | 33.43 | 87.75 | 38.92 | 0.890 | 0.315 |
| 6/30/1998 | 3.21 | 19.93 | 6.20 | 21.73 | 33.53 | 88.35 | 39.58 | 0.930 | 0.319 |
| 7/31/1998 | 3.11 | 18.11 | 5.83 | 20.94 | 33.62 | 88.91 | 40.22 | 0.977 | 0.322 |
| 8/31/1998 | 3.41 | 19.78 | 5.80 | | 33.73 | 89.53 | 40.22 | 0.000 | 0.320 |
| 9/30/1998 | 3.15 | 21.22 | 6.74 | | 33.82 | 90.16 | 40.22 | 0.000 | 0.318 |
| 10/31/1998 | 3.02 | 20.52 | 6.80 | | 33.92 | 90.80 | 40.22 | 0.000 | 0.317 |
| 11/30/1998 | 2.87 | 20.57 | 7.18 | | 34.00 | 91.42 | 40.22 | 0.000 | 0.315 |
| 12/31/1998 | 3.05 | 21.25 | 6.96 | | 34.10 | 92.08 | 40.22 | 0.000 | 0.313 |
| 1/31/1999 | 2.98 | 21.44 | 7.18 | | 34.19 | 92.74 | 40.22 | 0.000 | 0.311 |
| 2/28/1999 | 2.85 | 22.04 | 7.73 | | 34.27 | 93.36 | 40.22 | 0.000 | 0.309 |
| 3/31/1999 | 2.99 | 21.19 | 7.09 | | 34.36 | 94.01 | 40.22 | 0.000 | 0.308 |
| 4/30/1999 | 3.16 | 22.62 | 7.16 | | 34.46 | 94.69 | 40.22 | 0.000 | 0.306 |
| 5/31/1999 | 3.02 | 23.20 | 7.68 | | 34.55 | 95.41 | 40.22 | 0.000 | 0.304 |
| 6/30/1999 | 2.79 | 23.27 | 8.34 | | 34.64 | 96.11 | 40.22 | 0.000 | 0.302 |
| 7/31/1999 | 3.92 | 22.84 | 5.82 | | 34.76 | 96.82 | 40.22 | 0.000 | 0.300 |
| 8/31/1999 | 4.35 | 20.24 | 4.66 | | 34.89 | 97.45 | 40.22 | 0.000 | 0.298 |
| 9/30/1999 | 3.85 | 21.10 | 5.48 | | 35.01 | 98.08 | 40.22 | 0.000 | 0.297 |
| 10/31/1999 | 3.78 | 20.84 | 5.52 | | 35.12 | 98.72 | 40.22 | 0.000 | 0.295 |
| 11/30/1999 | 3.77 | 20.45 | 5.43 | | 35.24 | 99.34 | 40.22 | 0.000 | 0.294 |
| 12/31/1999 | 3.79 | 18.42 | 4.86 | | 35.36 | 99.91 | 40.22 | 0.000 | 0.292 |
| 1/31/2000 | 3.80 | 20.36 | 5.35 | | 35.47 | 100.54 | 40.22 | 0.000 | 0.290 |
| 2/29/2000 | 3.60 | 19.94 | 5.55 | | 35.58 | 101.12 | 40.22 | 0.000 | 0.289 |
| 3/31/2000 | 3.53 | 20.45 | 5.80 | | 35.69 | 101.75 | 40.22 | 0.000 | 0.287 |
| 4/30/2000 | 3.45 | 20.06 | 5.81 | | 35.79 | 102.35 | 40.22 | 0.000 | 0.286 |
| 5/31/2000 | 3.27 | 20.52 | 6.27 | | 35.89 | 102.99 | 40.22 | 0.000 | 0.285 |
| 6/30/2000 | 3.07 | 20.58 | 6.71 | | 35.98 | 103.61 | 40.22 | 0.000 | 0.283 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 7/31/2000 | 3.06 | 20.91 | 6.83 | | 36.08 | 104.26 | 40.22 | 0.000 | 0.282 |
| 8/31/2000 | 3.15 | 21.57 | 6.86 | | 36.18 | 104.93 | 40.22 | 0.000 | 0.280 |
| 9/30/2000 | 3.20 | 21.36 | 6.68 | | 36.27 | 105.57 | 40.22 | 0.000 | 0.279 |
| 10/31/2000 | 3.15 | 19.60 | 6.22 | | 36.37 | 106.17 | 40.22 | 0.000 | 0.277 |
| 11/30/2000 | 3.15 | 19.81 | 6.29 | | 36.46 | 106.77 | 40.22 | 0.000 | 0.276 |
| 12/31/2000 | 3.05 | 21.26 | 6.96 | | 36.56 | 107.43 | 40.22 | 0.000 | 0.275 |
| 1/31/2001 | 3.03 | 20.72 | 6.85 | | 36.65 | 108.07 | 40.22 | 0.000 | 0.273 |
| 2/28/2001 | 2.84 | 20.04 | 7.05 | | 36.73 | 108.63 | 40.22 | 0.000 | 0.272 |
| 3/31/2001 | 2.85 | 18.70 | 6.57 | | 36.82 | 109.21 | 40.22 | 0.000 | 0.271 |
| 4/30/2001 | 2.83 | 19.33 | 6.84 | | 36.91 | 109.79 | 40.22 | 0.000 | 0.270 |
| 5/31/2001 | 3.00 | 21.08 | 7.03 | | 37.00 | 110.44 | 40.22 | 0.000 | 0.268 |
| 6/30/2001 | 2.94 | 20.72 | 7.05 | | 37.09 | 111.06 | 40.22 | 0.000 | 0.267 |
| 7/31/2001 | 2.90 | 20.54 | 7.08 | | 37.18 | 111.70 | 40.22 | 0.000 | 0.266 |
| 8/31/2001 | 2.92 | 20.30 | 6.94 | | 37.27 | 112.33 | 40.22 | 0.000 | 0.264 |
| 9/30/2001 | 2.69 | 18.90 | 7.02 | | 37.35 | 112.90 | 40.22 | 0.000 | 0.263 |
| 10/31/2001 | 1.64 | 16.91 | 10.32 | | 37.40 | 113.42 | 40.22 | 0.000 | 0.262 |
| 11/30/2001 | 2.76 | 22.76 | 8.25 | | 37.48 | 114.10 | 40.22 | 0.000 | 0.261 |
| 12/31/2001 | 2.44 | 18.53 | 7.60 | | 37.56 | 114.68 | 40.22 | 0.000 | 0.260 |
| 1/31/2002 | 2.52 | 18.67 | 7.42 | | 37.63 | 115.26 | 40.22 | 0.000 | 0.259 |
| 2/28/2002 | 2.37 | 19.32 | 8.16 | | 37.70 | 115.80 | 40.22 | 0.000 | 0.258 |
| 3/31/2002 | 2.41 | 18.94 | 7.85 | | 37.78 | 116.39 | 40.22 | 0.000 | 0.257 |
| 4/30/2002 | 2.35 | 16.89 | 7.19 | | 37.85 | 116.89 | 40.22 | 0.000 | 0.256 |
| 5/31/2002 | 2.40 | 17.83 | 7.43 | | 37.92 | 117.45 | 40.22 | 0.000 | 0.255 |
| 6/30/2002 | 2.37 | 18.04 | 7.62 | | 37.99 | 117.99 | 40.22 | 0.000 | 0.254 |
| 7/31/2002 | 2.52 | 20.50 | 8.13 | | 38.07 | 118.62 | 40.22 | 0.000 | 0.252 |
| 8/31/2002 | 2.80 | 21.46 | 7.67 | | 38.16 | 119.29 | 40.22 | 0.000 | 0.251 |
| 9/30/2002 | 2.75 | 22.68 | 8.24 | | 38.24 | 119.97 | 40.22 | 0.000 | 0.250 |
| 10/31/2002 | 2.87 | 24.82 | 8.66 | | 38.33 | 120.74 | 40.22 | 0.000 | 0.249 |
| 11/30/2002 | 2.61 | 25.24 | 9.66 | | 38.41 | 121.49 | 40.22 | 0.000 | 0.247 |
| 12/31/2002 | 2.82 | 25.57 | 9.07 | | 38.49 | 122.29 | 40.22 | 0.000 | 0.246 |
| 1/31/2003 | 2.60 | 25.05 | 9.62 | | 38.57 | 123.06 | 40.22 | 0.000 | 0.245 |
| 2/28/2003 | 2.51 | 25.65 | 10.20 | | 38.65 | 123.78 | 40.22 | 0.000 | 0.244 |
| 3/31/2003 | 2.61 | 24.93 | 9.57 | | 38.73 | 124.55 | 40.22 | 0.000 | 0.242 |
| 4/30/2003 | 2.59 | 24.30 | 9.39 | | 38.80 | 125.28 | 40.22 | 0.000 | 0.241 |
| 5/31/2003 | 2.52 | 23.56 | 9.37 | | 38.88 | 126.01 | 40.22 | 0.000 | 0.240 |
| 6/30/2003 | 2.93 | 22.51 | 7.69 | | 38.97 | 126.69 | 40.22 | 0.000 | 0.239 |
| 7/31/2003 | 2.15 | 24.06 | 11.22 | | 39.04 | 127.44 | 40.22 | 0.000 | 0.238 |
| 8/31/2003 | 2.12 | 21.73 | 10.27 | | 39.10 | 128.11 | 40.22 | 0.000 | 0.237 |
| 9/30/2003 | 1.89 | 20.62 | 10.91 | | 39.16 | 128.73 | 40.22 | 0.000 | 0.236 |
| 10/31/2003 | 2.00 | 24.14 | 12.05 | | 39.22 | 129.48 | 40.22 | 0.000 | 0.235 |
| 11/30/2003 | 2.02 | 23.99 | 11.86 | | 39.28 | 130.20 | 40.22 | 0.000 | 0.234 |
| 12/31/2003 | 2.11 | 25.23 | 11.96 | | 39.35 | 130.98 | 40.22 | 0.000 | 0.232 |
| 1/31/2004 | 1.95 | 24.18 | 12.41 | | 39.41 | 131.73 | 40.22 | 0.000 | 0.231 |
| 2/29/2004 | 1.87 | 21.83 | 11.68 | | 39.46 | 132.36 | 40.22 | 0.000 | 0.230 |
| 3/31/2004 | 1.85 | 23.10 | 12.48 | | 39.52 | 133.08 | 40.22 | 0.000 | 0.229 |
| 4/30/2004 | 1.97 | 20.97 | 10.66 | | 39.58 | 133.71 | 40.22 | 0.000 | 0.229 |
| 5/31/2004 | 1.95 | 22.71 | 11.62 | | 39.64 | 134.41 | 40.22 | 0.000 | 0.228 |
| 6/30/2004 | 2.01 | 24.61 | 12.26 | | 39.70 | 135.15 | 40.22 | 0.000 | 0.226 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 7/31/2004 | 2.06 | 24.07 | 11.69 | | 39.76 | 135.89 | 40.22 | 0.000 | 0.225 |
| 8/31/2004 | 1.95 | 23.14 | 11.86 | | 39.82 | 136.61 | 40.22 | 0.000 | 0.224 |
| 9/30/2004 | 1.54 | 17.11 | 11.09 | | 39.87 | 137.12 | 40.22 | 0.000 | 0.224 |
| 10/31/2004 | 1.99 | 24.14 | 12.13 | | 39.93 | 137.87 | 40.22 | 0.000 | 0.223 |
| 11/30/2004 | 2.20 | 22.72 | 10.31 | | 40.00 | 138.55 | 40.22 | 0.000 | 0.222 |
| 12/31/2004 | 2.03 | 21.75 | 10.72 | | 40.06 | 139.23 | 40.22 | 0.000 | 0.221 |
| 1/31/2005 | 1.84 | 20.22 | 10.98 | | 40.12 | 139.86 | 40.22 | 0.000 | 0.220 |
| 2/28/2005 | 1.79 | 21.17 | 11.86 | | 40.17 | 140.45 | 40.22 | 0.000 | 0.219 |
| 3/31/2005 | 1.83 | 20.87 | 11.39 | | 40.22 | 141.10 | 40.22 | 0.000 | 0.218 |
| 4/30/2005 | 1.80 | 17.77 | 9.89 | | 40.28 | 141.63 | 40.22 | 0.000 | 0.218 |
| 5/31/2005 | 1.88 | 20.83 | 11.05 | | 40.34 | 142.27 | 40.22 | 0.000 | 0.217 |
| 6/30/2005 | 1.89 | 17.90 | 9.45 | | 40.39 | 142.81 | 40.22 | 0.000 | 0.216 |
| 7/31/2005 | 1.66 | 16.89 | 10.15 | | 40.44 | 143.33 | 40.22 | 0.000 | 0.216 |
| 8/31/2005 | 1.79 | 17.07 | 9.54 | | 40.50 | 143.86 | 40.22 | 0.000 | 0.215 |
| 9/30/2005 | 1.72 | 17.35 | 10.09 | | 40.55 | 144.38 | 40.22 | 0.000 | 0.214 |
| 10/31/2005 | 1.25 | 9.19 | 7.32 | | 40.59 | 144.67 | 40.22 | 0.000 | 0.214 |
| 11/30/2005 | 1.62 | 14.31 | 8.81 | | 40.64 | 145.10 | 40.22 | 0.000 | 0.213 |
| 12/31/2005 | 1.76 | 17.68 | 10.02 | | 40.69 | 145.65 | 40.22 | 0.000 | 0.213 |
| 1/31/2006 | 1.86 | 16.62 | 8.91 | | 40.75 | 146.16 | 40.22 | 0.000 | 0.212 |
| 2/28/2006 | 1.67 | 16.74 | 10.02 | | 40.80 | 146.63 | 40.22 | 0.000 | 0.211 |
| 3/31/2006 | 1.38 | 16.79 | 12.14 | | 40.84 | 147.15 | 40.22 | 0.000 | 0.211 |
| 4/30/2006 | 1.54 | 16.26 | 10.56 | | 40.89 | 147.64 | 40.22 | 0.000 | 0.210 |
| 5/31/2006 | 1.57 | 18.24 | 11.59 | | 40.94 | 148.20 | 40.22 | 0.000 | 0.210 |
| 6/30/2006 | 2.00 | 20.75 | 10.36 | | 41.00 | 148.83 | 40.22 | 0.000 | 0.209 |
| 7/31/2006 | 1.84 | 18.57 | 10.12 | | 41.05 | 149.40 | 40.22 | 0.000 | 0.208 |
| 8/31/2006 | 1.94 | 18.86 | 9.73 | | 41.11 | 149.99 | 40.22 | 0.000 | 0.207 |
| 9/30/2006 | 1.75 | 19.92 | 11.40 | | 41.17 | 150.58 | 40.22 | 0.000 | 0.207 |
| 10/31/2006 | 1.02 | 13.69 | 13.47 | | 41.20 | 151.01 | 40.22 | 0.000 | 0.206 |
| 11/30/2006 | 1.50 | 19.59 | 13.06 | | 41.24 | 151.60 | 40.22 | 0.000 | 0.206 |
| 12/31/2006 | 1.32 | 14.47 | 10.94 | | 41.28 | 152.04 | 40.22 | 0.000 | 0.205 |
| 1/31/2007 | 1.04 | 19.97 | 19.16 | | 41.32 | 152.66 | 40.22 | 0.000 | 0.204 |
| 2/28/2007 | 1.45 | 20.59 | 14.16 | | 41.36 | 153.24 | 40.22 | 0.000 | 0.204 |
| 3/31/2007 | 1.29 | 9.41 | 7.31 | | 41.40 | 153.53 | 40.22 | 0.000 | 0.203 |
| 4/30/2007 | 1.04 | 19.13 | 18.45 | | 41.43 | 154.11 | 40.22 | 0.000 | 0.203 |
| 5/31/2007 | 1.07 | 24.52 | 22.97 | | 41.46 | 154.87 | 40.22 | 0.000 | 0.202 |
| 6/30/2007 | 1.08 | 21.99 | 20.30 | | 41.49 | 155.53 | 40.22 | 0.000 | 0.201 |
| 7/31/2007 | 0.94 | 17.61 | 18.70 | | 41.52 | 156.07 | 40.22 | 0.000 | 0.201 |
| 8/31/2007 | 0.98 | 18.71 | 19.02 | | 41.55 | 156.65 | 40.22 | 0.000 | 0.200 |
| 9/30/2007 | 0.93 | 22.09 | 23.66 | | 41.58 | 157.31 | 40.22 | 0.000 | 0.199 |
| 10/31/2007 | 1.04 | 22.73 | 21.95 | | 41.61 | 158.02 | 40.22 | 0.000 | 0.199 |
| 11/30/2007 | 1.33 | 20.42 | 15.36 | | 41.65 | 158.63 | 40.22 | 0.000 | 0.198 |
| 12/31/2007 | 1.62 | 19.66 | 12.17 | | 41.70 | 159.24 | 40.22 | 0.000 | 0.197 |
| 1/31/2008 | 1.65 | 19.27 | 11.72 | | 41.75 | 159.84 | 40.22 | 0.000 | 0.197 |
| 2/29/2008 | 1.63 | 18.64 | 11.45 | | 41.80 | 160.38 | 40.22 | 0.000 | 0.196 |
| 3/31/2008 | 1.65 | 19.88 | 12.09 | | 41.85 | 161.00 | 40.22 | 0.000 | 0.196 |
| 4/30/2008 | 1.64 | 20.59 | 12.55 | | 41.90 | 161.61 | 40.22 | 0.000 | 0.195 |
| 5/31/2008 | 1.61 | 20.21 | 12.58 | | 41.95 | 162.24 | 40.22 | 0.000 | 0.194 |
| 6/30/2008 | 1.52 | 20.71 | 13.60 | | 42.00 | 162.86 | 40.22 | 0.000 | 0.194 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 7/31/2008 | 1.33 | 19.96 | 15.05 | | 42.04 | 163.48 | 40.22 | 0.000 | 0.193 |
| 8/31/2008 | 1.42 | 20.84 | 14.68 | | 42.08 | 164.13 | 40.22 | 0.000 | 0.192 |
| 9/30/2008 | 1.42 | 20.81 | 14.66 | | 42.12 | 164.75 | 40.22 | 0.000 | 0.192 |
| 10/31/2008 | 1.21 | 22.11 | 18.28 | | 42.16 | 165.44 | 40.22 | 0.000 | 0.191 |
| 11/30/2008 | 1.15 | 22.75 | 19.84 | | 42.20 | 166.12 | 40.22 | 0.000 | 0.190 |
| 12/31/2008 | 1.10 | 20.77 | 18.83 | | 42.23 | 166.76 | 40.22 | 0.000 | 0.190 |
| 1/31/2009 | 1.09 | 21.60 | 19.75 | | 42.26 | 167.43 | 40.22 | 0.000 | 0.189 |
| 2/28/2009 | 1.12 | 21.25 | 19.01 | | 42.30 | 168.03 | 40.22 | 0.000 | 0.189 |
| 3/31/2009 | 1.09 | 21.22 | 19.52 | | 42.33 | 168.68 | 40.22 | 0.000 | 0.188 |
| 4/30/2009 | 1.05 | 23.77 | 22.56 | | 42.36 | 169.40 | 40.22 | 0.000 | 0.187 |
| 5/31/2009 | 1.09 | 25.90 | 23.82 | | 42.39 | 170.20 | 40.22 | 0.000 | 0.187 |
| 6/30/2009 | 1.09 | 26.61 | 24.34 | | 42.43 | 171.00 | 40.22 | 0.000 | 0.186 |
| 7/31/2009 | 1.13 | 26.75 | 23.63 | | 42.46 | 171.83 | 40.22 | 0.000 | 0.185 |
| 8/31/2009 | 1.09 | 25.29 | 23.20 | | 42.50 | 172.61 | 40.22 | 0.000 | 0.184 |
| 9/30/2009 | 1.09 | 25.51 | 23.34 | | 42.53 | 173.38 | 40.22 | 0.000 | 0.184 |
| 10/31/2009 | 1.09 | 23.71 | 21.74 | | 42.56 | 174.11 | 40.22 | 0.000 | 0.183 |
| 11/30/2009 | 1.05 | 25.44 | 24.31 | | 42.59 | 174.88 | 40.22 | 0.000 | 0.182 |
| 12/31/2009 | 0.98 | 23.68 | 24.07 | | 42.62 | 175.61 | 40.22 | 0.000 | 0.182 |
| 1/31/2010 | 0.78 | 23.30 | 29.85 | | 42.65 | 176.33 | 40.22 | 0.000 | 0.181 |
| 2/28/2010 | 0.94 | 23.52 | 25.14 | | 42.67 | 176.99 | 40.22 | 0.000 | 0.181 |
| 3/31/2010 | 1.09 | 25.04 | 22.96 | | 42.71 | 177.77 | 40.22 | 0.000 | 0.180 |
| 4/30/2010 | 1.07 | 26.42 | 24.77 | | 42.74 | 178.56 | 40.22 | 0.000 | 0.179 |
| 5/31/2010 | 1.06 | 22.16 | 20.95 | | 42.77 | 179.25 | 40.22 | 0.000 | 0.179 |
| 6/30/2010 | 0.85 | 18.24 | 21.46 | | 42.80 | 179.79 | 40.22 | 0.000 | 0.178 |
| 7/31/2010 | 0.32 | 0.16 | 0.52 | | 42.81 | 179.80 | 40.22 | 0.000 | 0.178 |
| 8/31/2010 | 0.57 | 0.28 | 0.50 | | 42.83 | 179.81 | 40.22 | 0.000 | 0.178 |
| 9/30/2010 | 0.56 | 0.29 | 0.53 | | 42.84 | 179.82 | 40.22 | 0.000 | 0.178 |
| 10/31/2010 | 0.55 | 0.29 | 0.53 | | 42.86 | 179.83 | 40.22 | 0.000 | 0.178 |
| 11/30/2010 | 0.49 | 0.31 | 0.64 | | 42.87 | 179.84 | 40.22 | 0.000 | 0.178 |
| 12/31/2010 | 0.50 | 0.42 | 0.83 | | 42.89 | 179.85 | 40.22 | 0.000 | 0.178 |
| 1/31/2011 | 0.44 | 0.18 | 0.41 | | 42.90 | 179.85 | 40.22 | 0.000 | 0.178 |
| 2/28/2011 | 0.40 | 0.06 | 0.16 | | 42.91 | 179.86 | 40.22 | 0.000 | 0.178 |
| 3/31/2011 | 0.53 | 19.41 | 36.68 | | 42.93 | 180.46 | 40.22 | 0.000 | 0.178 |
| 4/30/2011 | 0.70 | 21.50 | 30.71 | | 42.95 | 181.10 | 40.22 | 0.000 | 0.177 |
| 5/31/2011 | 0.77 | 21.72 | 28.29 | | 42.98 | 181.78 | 40.22 | 0.000 | 0.177 |
| 6/30/2011 | 0.48 | 0.77 | 1.61 | | 42.99 | 181.80 | 40.22 | 0.000 | 0.177 |
| 7/31/2011 | 0.46 | 4.52 | 9.80 | | 43.00 | 181.94 | 40.22 | 0.000 | 0.176 |
| 8/31/2011 | 0.91 | 21.69 | 23.84 | | 43.03 | 182.61 | 40.22 | 0.000 | 0.176 |
| 9/30/2011 | 1.22 | 16.17 | 13.22 | | 43.07 | 183.10 | 40.22 | 0.000 | 0.176 |
| 10/31/2011 | 0.76 | 0.43 | 0.57 | | 43.09 | 183.11 | 40.22 | 0.000 | 0.176 |
| 11/30/2011 | 0.68 | 0.34 | 0.49 | | 43.11 | 183.12 | 40.22 | 0.000 | 0.175 |
| 12/31/2011 | 0.71 | 0.30 | 0.42 | | 43.14 | 183.13 | 40.22 | 0.000 | 0.175 |