

WEST BUTLER UNIT NO. 1
WATERFLOOD EOR PROJECT

ANNUAL REPORT FOR 2012

March 1, 2013

Tundra Oil and Gas Partnership

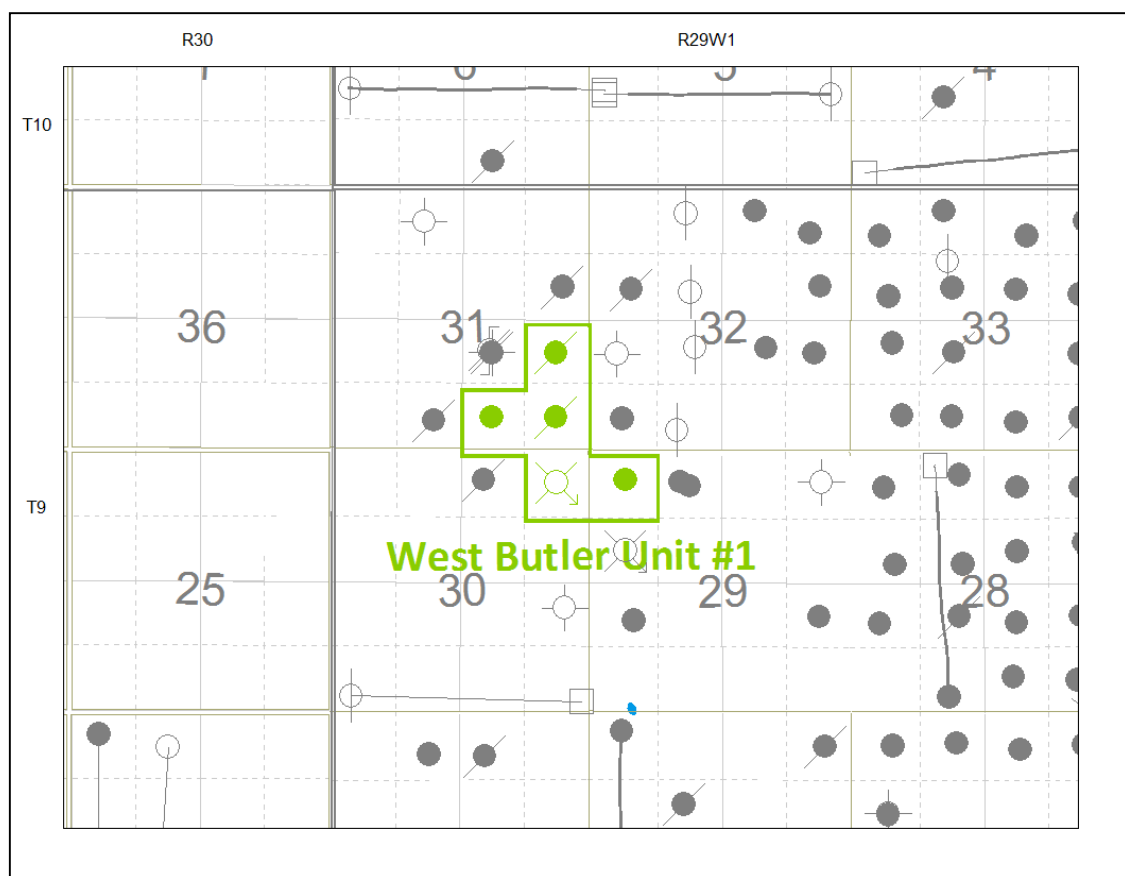
Table of Contents

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

INTRODUCTION

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

Figure 1: West Butler Unit No. 1 Area Outline



In accordance with Section 73 of the Manitoba Drilling and Production Regulation, Tundra hereby submits the 2012 Annual Progress Report for West Butler Unit No. 2 as required by Board Order No. PM 21.

DISCUSSION

Production History

For the wells included in West Butler Unit No. 1, production started November 1955 with 00/01-13-009-29W1/0 well. Oil production peaked at 20.74 m³/d in May 1956, when all five wells were producing. Average production in 2012 was 0.61 m³/d of oil and 0.07 m³/d of water and a WOR of 0.13 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 plotted in Figure 2.

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

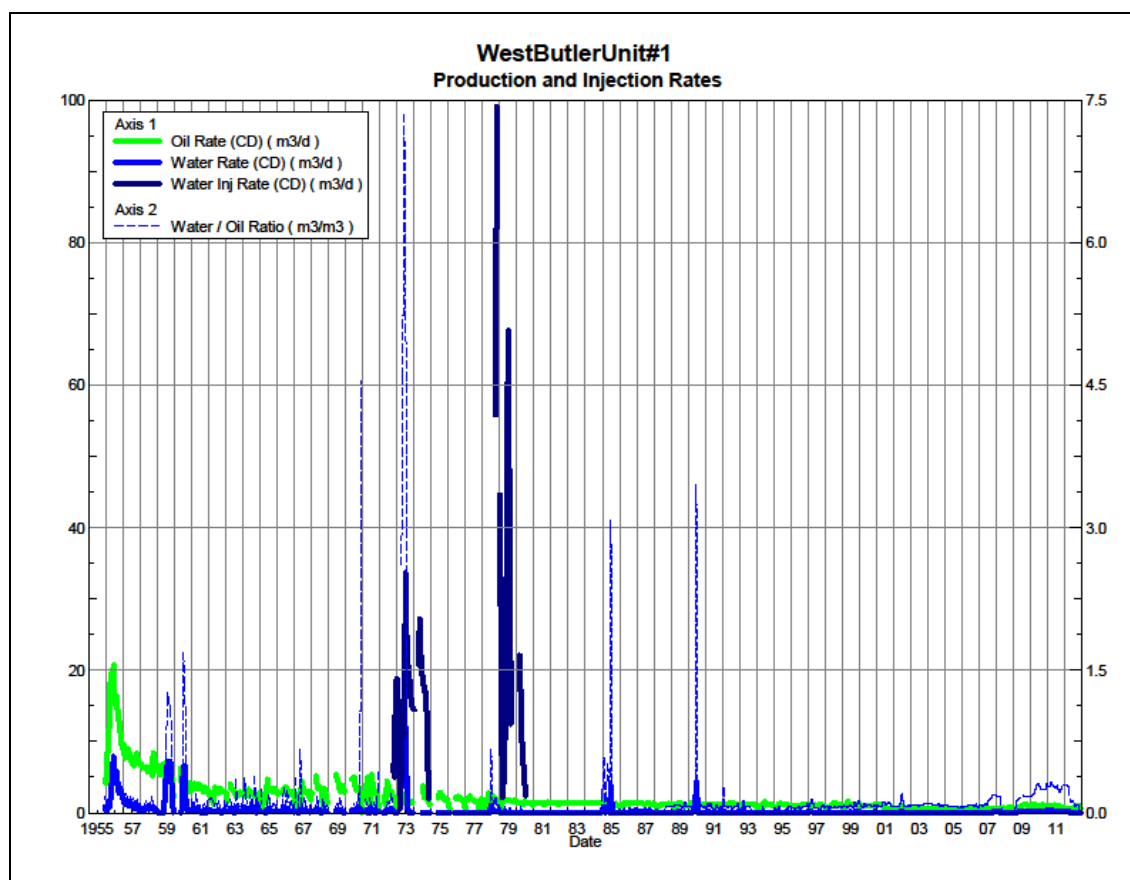
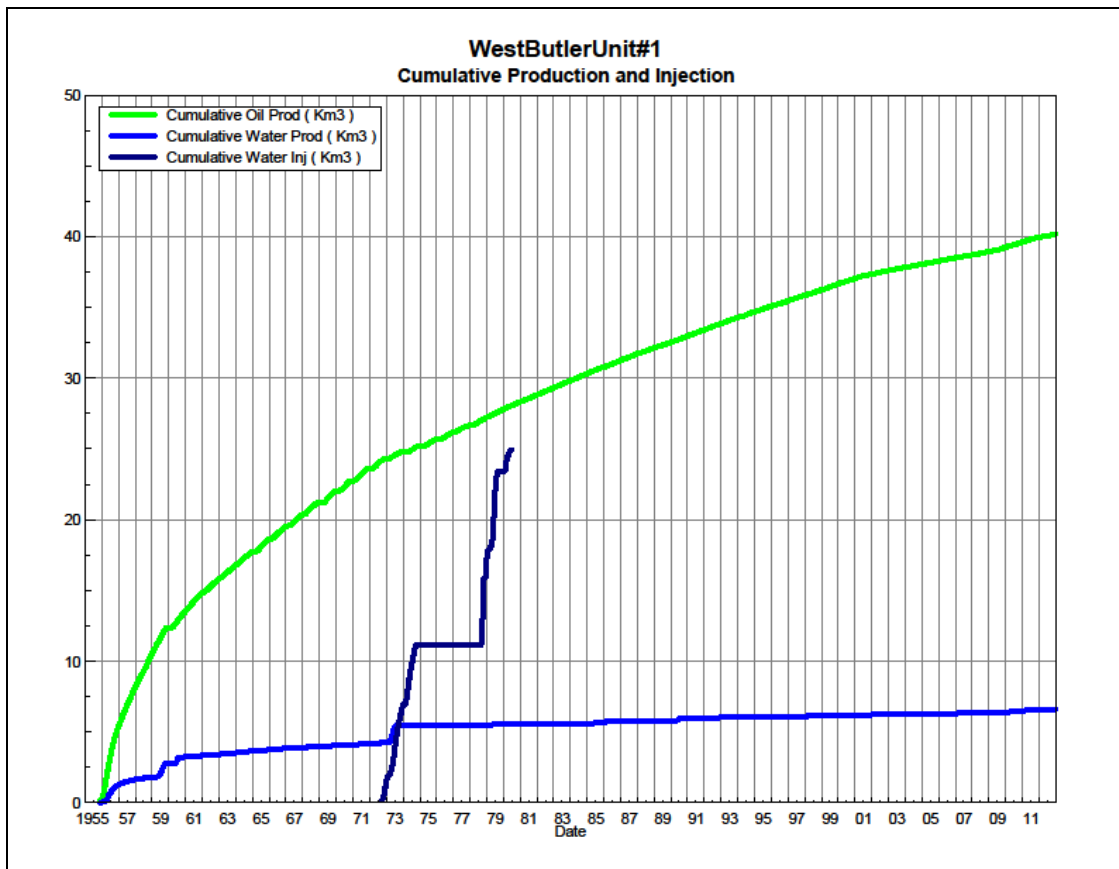


Figure 3 shows the cumulative production for West Butler Unit No. 1 to the end of December 2012 as 40.0 E³m³ of oil, and 6.61 E³m³ of water. The cumulative water injected is 25.0 E³m³. The cumulative volume of oil, and water produced and fluid injected for each injection pattern and for the whole project for each injection well is presented in Appendix C.

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



Waterflood History

As of December 2012 the Unit has no active injector. Water was injected into the unit from June 1973 until June 1980.

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

Waterflood EOR Operating Strategy and Performance

Water Source and Quality

There is currently no injection in West Butler Unit No. 1.

Injection Wellhead Pressures

No Injection Wellhead Pressure is available for this unit.

Reservoir Pressure

No reservoir pressure measurements were taken at West Butler Unit No. 1 in 2012.

Well Servicing

No maintenance was required on 5 wells in West Butler Unit No. 1 in 2012.

Voidage Replacement

Cumulative voidage for the West Butler Unit No. 1 was 0.513 in December 2012. Calculation, plots and tables of the Voidage replacement ratio on a monthly and cumulative basis for each injection pattern and for the project area are presented in Appendix C.

Waterflood Performance Discussion

The original oil-in-place (OOIP) of the Unit is estimated at 309 E³m³. In 2012, recovery factor of the Unit is 12.9% based on 40 E³m³ of cumulative oil recovered to date. The ultimate expected recoverable reserve based on decline analysis is 40 E³m³ or an ultimate recovery factor of 12.9%.

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

List of Appendices

Appendix A: Well List and Well Status

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

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

Appendix A

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

Appendix B

West Butler Unit 1 Pattern Summary as of December 2012

| Pattern Name | Injector Location (009-29W1) | Status | Supported Wells (009-29W1) | No. of Supported 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 |
|----------------------------|---------------------------------|-------------------|-----------------------------------|------------------------|-------------------|--------------------------|-----------------|---------------|--------------------|----------------------|----------------|---------------------------|-------------------|---------------------|-------------------------|-------------|---------|
| 00/16-30-009-29W1 Injector | 00/16-30 | ABD WTR Injection | 01-31, 02-31, 08-31, 13-29, 16-30 | 5 | 1 | Apr 1965 | Sep 1972 | Jun 1980 | 0.64 | 0.01 | 0.02 | - | 40.2 | 6.6 | 25.0 | - | 0.50 |

Pattern: 16-30-09-29 Set: WestButlerUnit#1

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 0.02 m3/m3

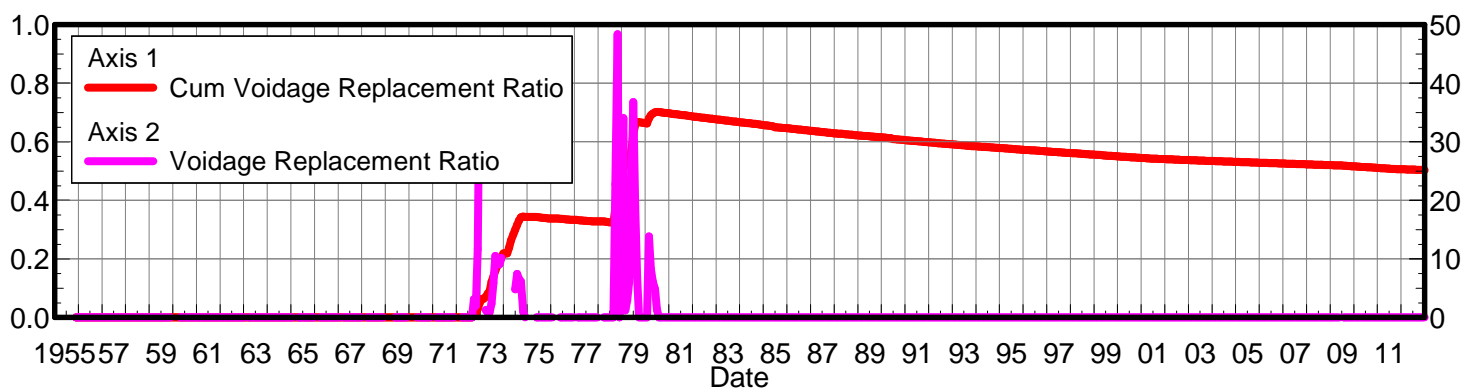
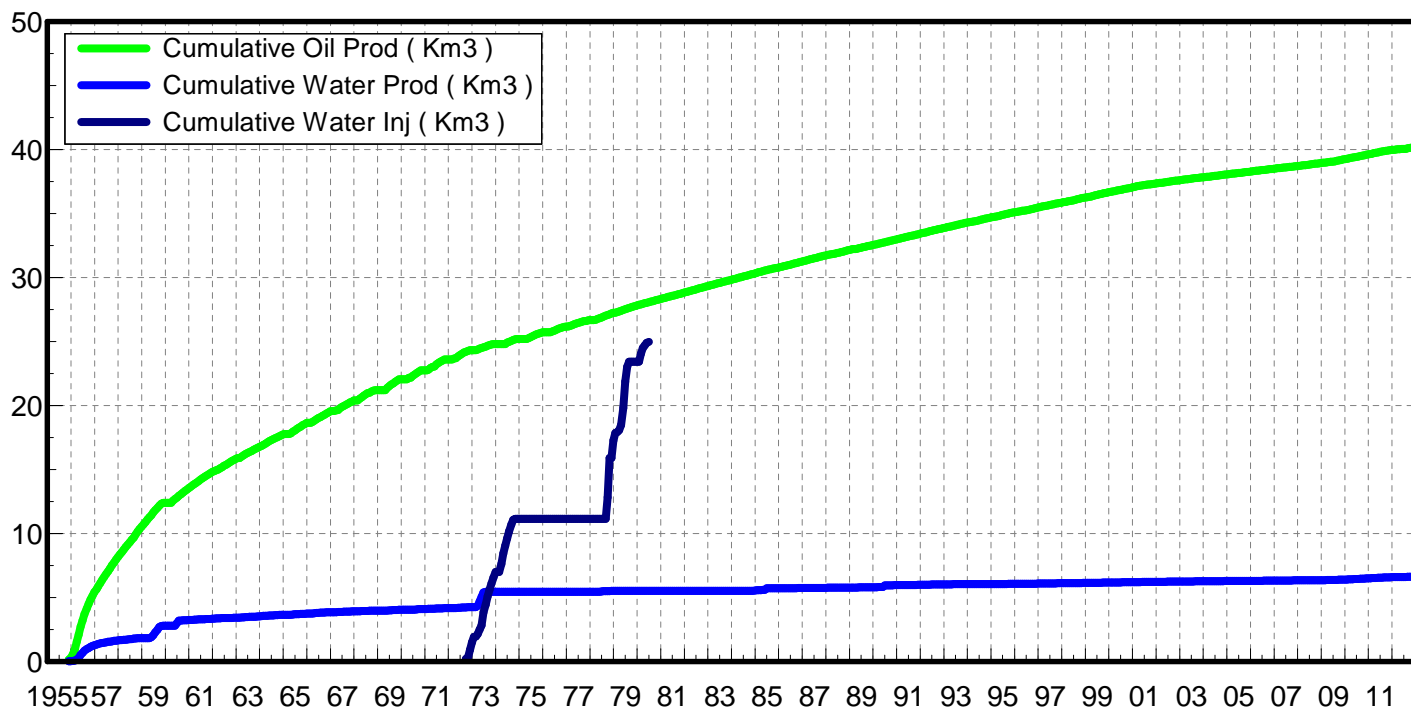
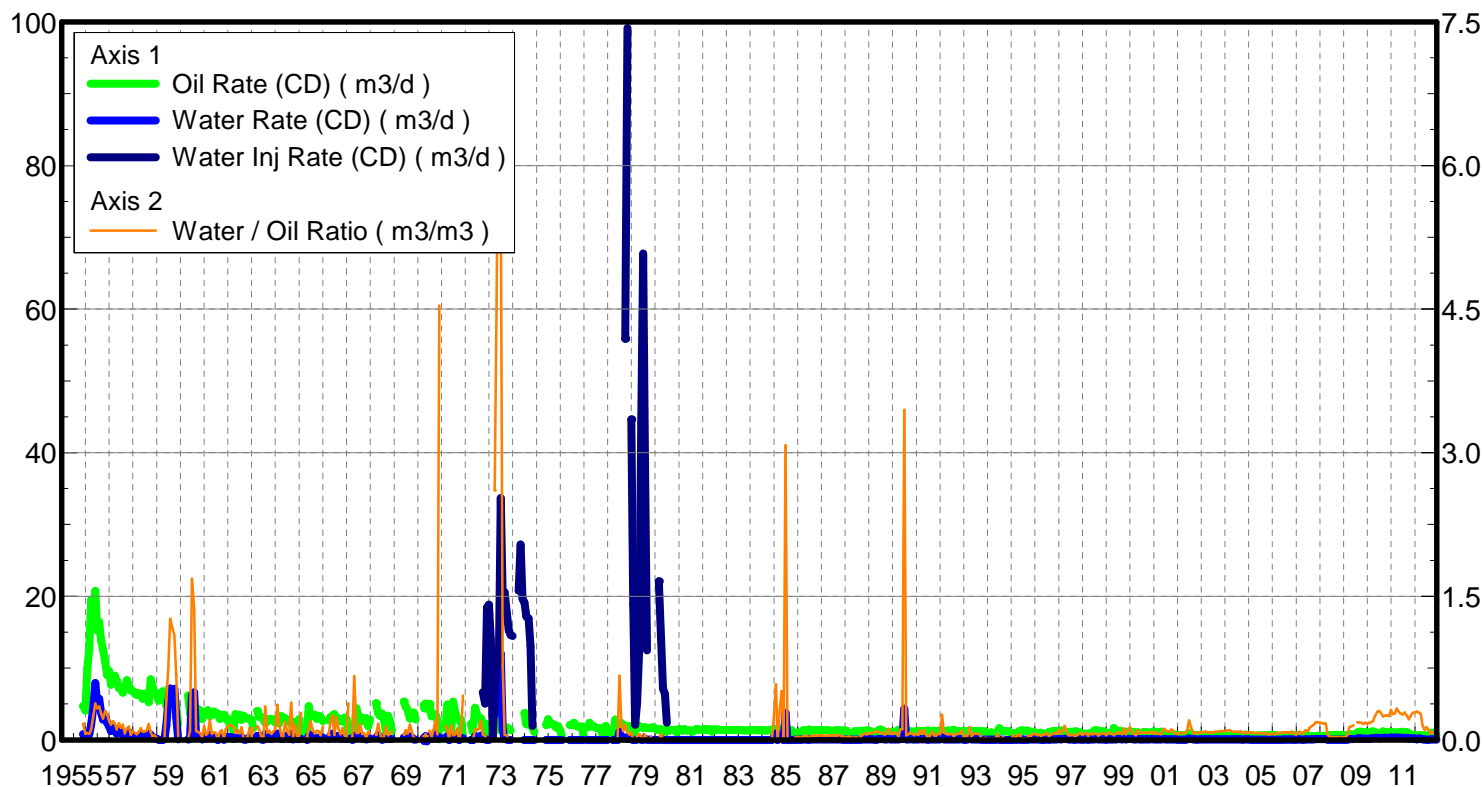
February 26, 2013

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 0.64 m3/d

Water Rate (CD) : 0.01 m3/d

Water Inj Rate (CD) : 2.37 m3/d



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

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 11/30/1959 | 2.15 | 0.09 | 0.04 | | 12.39 | 2.79 | 0.00 | 0.000 | 0.000 |
| 4/30/1960 | 6.16 | 0.08 | 0.01 | | 12.58 | 2.79 | 0.00 | 0.000 | 0.000 |
| 5/31/1960 | 3.69 | 0.35 | 0.09 | | 12.69 | 2.80 | 0.00 | 0.000 | 0.000 |
| 6/30/1960 | 3.69 | 6.21 | 1.68 | | 12.80 | 2.99 | 0.00 | 0.000 | 0.000 |
| 7/31/1960 | 4.85 | 6.63 | 1.37 | | 12.95 | 3.19 | 0.00 | 0.000 | 0.000 |
| 8/31/1960 | 4.08 | 0.37 | 0.09 | | 13.08 | 3.20 | 0.00 | 0.000 | 0.000 |
| 9/30/1960 | 4.32 | 0.35 | 0.08 | | 13.21 | 3.21 | 0.00 | 0.000 | 0.000 |
| 10/31/1960 | 4.13 | 0.29 | 0.07 | | 13.33 | 3.22 | 0.00 | 0.000 | 0.000 |
| 11/30/1960 | 2.91 | 0.07 | 0.03 | | 13.42 | 3.22 | 0.00 | 0.000 | 0.000 |
| 12/31/1960 | 3.75 | 0.53 | 0.14 | | 13.54 | 3.24 | 0.00 | 0.000 | 0.000 |
| 1/31/1961 | 3.96 | 0.20 | 0.05 | | 13.66 | 3.25 | 0.00 | 0.000 | 0.000 |
| 2/28/1961 | 4.13 | 0.30 | 0.07 | | 13.78 | 3.25 | 0.00 | 0.000 | 0.000 |
| 3/31/1961 | 3.35 | 0.68 | 0.20 | | 13.88 | 3.28 | 0.00 | 0.000 | 0.000 |
| 4/30/1961 | 3.47 | 0.22 | 0.06 | | 13.98 | 3.28 | 0.00 | 0.000 | 0.000 |
| 5/31/1961 | 3.95 | 0.33 | 0.08 | | 14.11 | 3.29 | 0.00 | 0.000 | 0.000 |
| 6/30/1961 | 3.60 | 0.25 | 0.07 | | 14.22 | 3.30 | 0.00 | 0.000 | 0.000 |
| 7/31/1961 | 3.70 | 0.00 | 0.00 | | 14.33 | 3.30 | 0.00 | 0.000 | 0.000 |
| 8/31/1961 | 2.92 | 0.24 | 0.08 | | 14.42 | 3.31 | 0.00 | 0.000 | 0.000 |
| 9/30/1961 | 3.46 | 0.35 | 0.10 | | 14.52 | 3.32 | 0.00 | 0.000 | 0.000 |
| 10/31/1961 | 3.51 | 0.04 | 0.01 | | 14.63 | 3.32 | 0.00 | 0.000 | 0.000 |
| 11/30/1961 | 2.94 | 0.34 | 0.12 | | 14.72 | 3.33 | 0.00 | 0.000 | 0.000 |
| 12/31/1961 | 2.97 | 0.41 | 0.14 | | 14.81 | 3.34 | 0.00 | 0.000 | 0.000 |
| 1/31/1962 | 2.06 | 0.32 | 0.15 | | 14.88 | 3.35 | 0.00 | 0.000 | 0.000 |
| 2/28/1962 | 2.59 | 0.39 | 0.15 | | 14.95 | 3.36 | 0.00 | 0.000 | 0.000 |
| 3/31/1962 | 1.22 | 0.16 | 0.13 | | 14.99 | 3.37 | 0.00 | 0.000 | 0.000 |
| 4/30/1962 | 3.58 | 0.25 | 0.07 | | 15.10 | 3.38 | 0.00 | 0.000 | 0.000 |
| 5/31/1962 | 2.88 | 0.29 | 0.10 | | 15.18 | 3.38 | 0.00 | 0.000 | 0.000 |
| 6/30/1962 | 3.51 | 0.24 | 0.07 | | 15.29 | 3.39 | 0.00 | 0.000 | 0.000 |
| 7/31/1962 | 2.81 | 0.37 | 0.13 | | 15.38 | 3.40 | 0.00 | 0.000 | 0.000 |
| 8/31/1962 | 3.37 | 0.06 | 0.02 | | 15.48 | 3.41 | 0.00 | 0.000 | 0.000 |
| 9/30/1962 | 3.15 | 0.03 | 0.01 | | 15.58 | 3.41 | 0.00 | 0.000 | 0.000 |
| 10/31/1962 | 2.98 | 0.10 | 0.03 | | 15.67 | 3.41 | 0.00 | 0.000 | 0.000 |
| 11/30/1962 | 2.97 | 0.37 | 0.13 | | 15.76 | 3.42 | 0.00 | 0.000 | 0.000 |
| 12/31/1962 | 2.82 | 0.09 | 0.03 | | 15.84 | 3.42 | 0.00 | 0.000 | 0.000 |
| 1/31/1963 | 1.61 | 0.20 | 0.12 | | 15.89 | 3.43 | 0.00 | 0.000 | 0.000 |
| 3/31/1963 | 4.04 | 0.56 | 0.14 | | 16.02 | 3.45 | 0.00 | 0.000 | 0.000 |
| 4/30/1963 | 3.18 | 0.35 | 0.11 | | 16.12 | 3.46 | 0.00 | 0.000 | 0.000 |
| 5/31/1963 | 3.20 | 0.09 | 0.03 | | 16.21 | 3.46 | 0.00 | 0.000 | 0.000 |
| 6/30/1963 | 2.85 | 0.02 | 0.01 | | 16.30 | 3.46 | 0.00 | 0.000 | 0.000 |
| 7/31/1963 | 2.39 | 0.83 | 0.35 | | 16.37 | 3.49 | 0.00 | 0.000 | 0.000 |
| 8/31/1963 | 2.53 | 0.19 | 0.08 | | 16.45 | 3.49 | 0.00 | 0.000 | 0.000 |
| 9/30/1963 | 2.94 | 0.28 | 0.10 | | 16.54 | 3.50 | 0.00 | 0.000 | 0.000 |
| 10/31/1963 | 2.74 | 0.17 | 0.06 | | 16.63 | 3.51 | 0.00 | 0.000 | 0.000 |
| 11/30/1963 | 2.87 | 0.25 | 0.09 | | 16.71 | 3.51 | 0.00 | 0.000 | 0.000 |
| 12/31/1963 | 2.43 | 0.26 | 0.11 | | 16.79 | 3.52 | 0.00 | 0.000 | 0.000 |
| 1/31/1964 | 2.39 | 0.88 | 0.37 | | 16.86 | 3.55 | 0.00 | 0.000 | 0.000 |
| 2/29/1964 | 2.30 | 0.40 | 0.17 | | 16.93 | 3.56 | 0.00 | 0.000 | 0.000 |
| 3/31/1964 | 3.31 | 0.15 | 0.04 | | 17.03 | 3.56 | 0.00 | 0.000 | 0.000 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 4/30/1964 | 3.10 | 0.10 | 0.03 | | 17.12 | 3.57 | 0.00 | 0.000 | 0.000 |
| 5/31/1964 | 3.00 | 0.57 | 0.19 | | 17.22 | 3.59 | 0.00 | 0.000 | 0.000 |
| 6/30/1964 | 2.75 | 0.27 | 0.10 | | 17.30 | 3.59 | 0.00 | 0.000 | 0.000 |
| 7/31/1964 | 2.55 | 0.14 | 0.06 | | 17.38 | 3.60 | 0.00 | 0.000 | 0.000 |
| 8/31/1964 | 2.27 | 0.88 | 0.39 | | 17.45 | 3.63 | 0.00 | 0.000 | 0.000 |
| 9/30/1964 | 2.50 | 0.07 | 0.03 | | 17.52 | 3.63 | 0.00 | 0.000 | 0.000 |
| 10/31/1964 | 2.32 | 0.36 | 0.16 | | 17.59 | 3.64 | 0.00 | 0.000 | 0.000 |
| 11/30/1964 | 2.45 | 0.10 | 0.04 | | 17.67 | 3.64 | 0.00 | 0.000 | 0.000 |
| 12/31/1964 | 2.87 | 0.12 | 0.04 | | 17.76 | 3.65 | 0.00 | 0.000 | 0.000 |
| 1/31/1965 | 0.62 | 0.17 | 0.28 | | 17.78 | 3.65 | 0.00 | 0.000 | 0.000 |
| 4/30/1965 | 1.33 | 0.04 | 0.03 | | 17.82 | 3.65 | 0.00 | 0.000 | 0.000 |
| 5/31/1965 | 4.72 | 0.51 | 0.11 | | 17.96 | 3.67 | 0.00 | 0.000 | 0.000 |
| 6/30/1965 | 3.30 | 0.64 | 0.19 | | 18.06 | 3.69 | 0.00 | 0.000 | 0.000 |
| 7/31/1965 | 3.30 | 0.32 | 0.10 | | 18.16 | 3.70 | 0.00 | 0.000 | 0.000 |
| 8/31/1965 | 3.50 | 0.24 | 0.07 | | 18.27 | 3.70 | 0.00 | 0.000 | 0.000 |
| 9/30/1965 | 2.92 | 0.28 | 0.10 | | 18.36 | 3.71 | 0.00 | 0.000 | 0.000 |
| 10/31/1965 | 3.38 | 0.30 | 0.09 | | 18.47 | 3.72 | 0.00 | 0.000 | 0.000 |
| 11/30/1965 | 3.17 | 0.15 | 0.05 | | 18.56 | 3.73 | 0.00 | 0.000 | 0.000 |
| 12/31/1965 | 2.59 | 0.36 | 0.14 | | 18.64 | 3.74 | 0.00 | 0.000 | 0.000 |
| 3/31/1966 | 2.75 | 0.15 | 0.05 | | 18.73 | 3.74 | 0.00 | 0.000 | 0.000 |
| 4/30/1966 | 3.18 | 0.60 | 0.19 | | 18.82 | 3.76 | 0.00 | 0.000 | 0.000 |
| 5/31/1966 | 3.37 | 0.88 | 0.26 | | 18.93 | 3.79 | 0.00 | 0.000 | 0.000 |
| 6/30/1966 | 3.60 | 0.19 | 0.05 | | 19.03 | 3.79 | 0.00 | 0.000 | 0.000 |
| 7/31/1966 | 2.44 | 0.57 | 0.24 | | 19.11 | 3.81 | 0.00 | 0.000 | 0.000 |
| 8/31/1966 | 3.02 | 0.35 | 0.12 | | 19.20 | 3.82 | 0.00 | 0.000 | 0.000 |
| 9/30/1966 | 2.79 | 0.16 | 0.06 | | 19.29 | 3.83 | 0.00 | 0.000 | 0.000 |
| 10/31/1966 | 2.59 | 0.31 | 0.12 | | 19.37 | 3.84 | 0.00 | 0.000 | 0.000 |
| 11/30/1966 | 3.09 | 0.14 | 0.05 | | 19.46 | 3.84 | 0.00 | 0.000 | 0.000 |
| 12/31/1966 | 2.92 | 0.09 | 0.03 | | 19.55 | 3.84 | 0.00 | 0.000 | 0.000 |
| 1/31/1967 | 0.45 | 0.17 | 0.38 | | 19.56 | 3.85 | 0.00 | 0.000 | 0.000 |
| 3/31/1967 | 2.13 | 0.02 | 0.01 | | 19.63 | 3.85 | 0.00 | 0.000 | 0.000 |
| 4/30/1967 | 0.75 | 0.50 | 0.67 | | 19.65 | 3.86 | 0.00 | 0.000 | 0.000 |
| 5/31/1967 | 4.38 | 0.31 | 0.07 | | 19.79 | 3.87 | 0.00 | 0.000 | 0.000 |
| 6/30/1967 | 3.39 | 0.24 | 0.07 | | 19.89 | 3.88 | 0.00 | 0.000 | 0.000 |
| 7/31/1967 | 2.88 | 0.47 | 0.16 | | 19.98 | 3.90 | 0.00 | 0.000 | 0.000 |
| 8/31/1967 | 3.09 | 0.19 | 0.06 | | 20.08 | 3.90 | 0.00 | 0.000 | 0.000 |
| 9/30/1967 | 2.59 | 0.18 | 0.07 | | 20.15 | 3.91 | 0.00 | 0.000 | 0.000 |
| 10/31/1967 | 3.02 | 0.06 | 0.02 | | 20.25 | 3.91 | 0.00 | 0.000 | 0.000 |
| 11/30/1967 | 1.88 | 0.16 | 0.09 | | 20.30 | 3.91 | 0.00 | 0.000 | 0.000 |
| 12/31/1967 | 2.84 | 0.20 | 0.07 | | 20.39 | 3.92 | 0.00 | 0.000 | 0.000 |
| 3/31/1968 | 5.11 | 0.28 | 0.06 | | 20.55 | 3.93 | 0.00 | 0.000 | 0.000 |
| 4/30/1968 | 3.74 | 0.63 | 0.17 | | 20.66 | 3.95 | 0.00 | 0.000 | 0.000 |
| 5/31/1968 | 3.34 | 0.23 | 0.07 | | 20.77 | 3.95 | 0.00 | 0.000 | 0.000 |
| 6/30/1968 | 3.67 | 0.01 | 0.00 | | 20.88 | 3.95 | 0.00 | 0.000 | 0.000 |
| 7/31/1968 | 2.85 | 0.10 | 0.03 | | 20.96 | 3.96 | 0.00 | 0.000 | 0.000 |
| 8/31/1968 | 0.94 | 0.13 | 0.14 | | 20.99 | 3.96 | 0.00 | 0.000 | 0.000 |
| 9/30/1968 | 3.36 | 0.16 | 0.05 | | 21.09 | 3.97 | 0.00 | 0.000 | 0.000 |
| 10/31/1968 | 2.61 | 0.17 | 0.07 | | 21.17 | 3.97 | 0.00 | 0.000 | 0.000 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 11/30/1968 | 1.25 | 0.11 | 0.09 | | 21.21 | 3.98 | 0.00 | 0.000 | 0.000 |
| 5/31/1969 | 5.32 | 0.30 | 0.06 | | 21.38 | 3.98 | 0.00 | 0.000 | 0.000 |
| 6/30/1969 | 4.60 | 0.47 | 0.10 | | 21.52 | 4.00 | 0.00 | 0.000 | 0.000 |
| 7/31/1969 | 4.20 | 0.27 | 0.06 | | 21.65 | 4.01 | 0.00 | 0.000 | 0.000 |
| 8/31/1969 | 2.97 | 0.47 | 0.16 | | 21.74 | 4.02 | 0.00 | 0.000 | 0.000 |
| 9/30/1969 | 3.45 | 0.32 | 0.09 | | 21.84 | 4.03 | 0.00 | 0.000 | 0.000 |
| 10/31/1969 | 3.82 | 0.07 | 0.02 | | 21.96 | 4.03 | 0.00 | 0.000 | 0.000 |
| 11/30/1969 | 2.84 | 0.05 | 0.02 | | 22.04 | 4.03 | 0.00 | 0.000 | 0.000 |
| 4/30/1970 | 4.71 | 0.14 | 0.03 | | 22.19 | 4.04 | 0.00 | 0.000 | 0.000 |
| 6/30/1970 | 5.04 | 0.46 | 0.09 | | 22.34 | 4.05 | 0.00 | 0.000 | 0.000 |
| 7/31/1970 | 3.28 | 0.11 | 0.03 | | 22.44 | 4.06 | 0.00 | 0.000 | 0.000 |
| 8/31/1970 | 3.61 | 0.36 | 0.10 | | 22.55 | 4.07 | 0.00 | 0.000 | 0.000 |
| 9/30/1970 | 3.53 | 0.72 | 0.20 | | 22.66 | 4.09 | 0.00 | 0.000 | 0.000 |
| 10/31/1970 | 2.78 | 0.16 | 0.06 | | 22.74 | 4.09 | 0.00 | 0.000 | 0.000 |
| 11/30/1970 | 0.09 | 0.39 | 4.54 | | 22.75 | 4.11 | 0.00 | 0.000 | 0.000 |
| 2/28/1971 | 1.66 | 0.24 | 0.14 | | 22.79 | 4.11 | 0.00 | 0.000 | 0.000 |
| 3/31/1971 | 4.92 | 0.51 | 0.10 | | 22.94 | 4.13 | 0.00 | 0.000 | 0.000 |
| 4/30/1971 | 2.74 | 0.00 | 0.00 | | 23.03 | 4.13 | 0.00 | 0.000 | 0.000 |
| 5/31/1971 | 1.02 | 0.15 | 0.15 | | 23.06 | 4.13 | 0.00 | 0.000 | 0.000 |
| 6/30/1971 | 5.35 | 0.26 | 0.05 | | 23.22 | 4.14 | 0.00 | 0.000 | 0.000 |
| 7/31/1971 | 3.78 | 0.22 | 0.06 | | 23.34 | 4.15 | 0.00 | 0.000 | 0.000 |
| 8/31/1971 | 2.95 | 0.35 | 0.12 | | 23.43 | 4.16 | 0.00 | 0.000 | 0.000 |
| 9/30/1971 | 2.75 | 0.00 | 0.00 | | 23.51 | 4.16 | 0.00 | 0.000 | 0.000 |
| 10/31/1971 | 2.77 | 0.25 | 0.09 | | 23.60 | 4.17 | 0.00 | 0.000 | 0.000 |
| 11/30/1971 | 0.50 | 0.23 | 0.46 | | 23.61 | 4.17 | 0.00 | 0.000 | 0.000 |
| 3/31/1972 | 2.20 | 0.00 | 0.00 | | 23.68 | 4.17 | 0.00 | 0.000 | 0.000 |
| 4/30/1972 | 1.14 | 0.00 | 0.00 | | 23.71 | 4.17 | 0.00 | 0.000 | 0.000 |
| 5/31/1972 | 4.48 | 0.51 | 0.11 | | 23.85 | 4.19 | 0.00 | 0.000 | 0.000 |
| 6/30/1972 | 3.51 | 0.36 | 0.10 | | 23.96 | 4.20 | 0.00 | 0.000 | 0.000 |
| 7/31/1972 | 3.06 | 0.36 | 0.12 | | 24.05 | 4.21 | 0.00 | 0.000 | 0.000 |
| 8/31/1972 | 3.00 | 0.60 | 0.20 | | 24.15 | 4.23 | 0.00 | 0.000 | 0.000 |
| 9/30/1972 | 1.88 | 0.11 | 0.06 | 6.64 | 24.20 | 4.23 | 0.20 | 3.129 | 0.007 |
| 10/31/1972 | 2.30 | 0.10 | 0.04 | 5.06 | 24.27 | 4.24 | 0.36 | 1.983 | 0.012 |
| 11/30/1972 | 1.47 | 0.00 | 0.00 | 18.44 | 24.32 | 4.24 | 0.91 | 11.702 | 0.030 |
| 12/31/1972 | 0.38 | 0.00 | 0.00 | 18.83 | 24.33 | 4.24 | 1.49 | 45.867 | 0.049 |
| 1/31/1973 | | | | 13.92 | 24.33 | 4.24 | 1.92 | | 0.064 |
| 2/28/1973 | | | | 0.49 | 24.33 | 4.24 | 1.94 | | 0.064 |
| 3/31/1973 | 1.37 | 3.57 | 2.61 | 6.43 | 24.37 | 4.35 | 2.14 | 1.275 | 0.070 |
| 4/30/1973 | 2.58 | 11.83 | 4.59 | 11.83 | 24.45 | 4.70 | 2.49 | 0.811 | 0.081 |
| 5/31/1973 | 1.46 | 10.75 | 7.35 | 10.75 | 24.49 | 5.04 | 2.83 | 0.873 | 0.090 |
| 6/30/1973 | 2.08 | 12.00 | 5.78 | 33.67 | 24.56 | 5.40 | 3.84 | 2.367 | 0.121 |
| 7/31/1973 | 1.84 | 1.43 | 0.78 | 20.06 | 24.61 | 5.44 | 4.46 | 5.921 | 0.140 |
| 8/31/1973 | 1.75 | 0.10 | 0.06 | 20.59 | 24.67 | 5.44 | 5.10 | 10.487 | 0.160 |
| 9/30/1973 | 1.73 | 0.08 | 0.05 | 17.68 | 24.72 | 5.44 | 5.63 | 9.143 | 0.176 |
| 10/31/1973 | 1.57 | 0.00 | 0.00 | 15.29 | 24.77 | 5.44 | 6.10 | 9.081 | 0.191 |
| 11/30/1973 | 1.34 | 0.00 | 0.00 | 14.58 | 24.81 | 5.44 | 6.54 | 10.200 | 0.204 |
| 12/31/1973 | | | | 14.47 | 24.81 | 5.44 | 6.99 | | 0.218 |
| 3/31/1974 | | | | 20.81 | 24.81 | 5.44 | 7.63 | | 0.239 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 4/30/1974 | | | | 27.22 | 24.81 | 5.44 | 8.45 | | 0.264 |
| 5/31/1974 | | | | 19.64 | 24.81 | 5.44 | 9.06 | | 0.283 |
| 6/30/1974 | 3.73 | 0.00 | 0.00 | 19.15 | 24.92 | 5.44 | 9.63 | 4.804 | 0.300 |
| 7/31/1974 | 2.16 | 0.00 | 0.00 | 17.19 | 24.99 | 5.44 | 10.16 | 7.425 | 0.316 |
| 8/31/1974 | 2.41 | 0.00 | 0.00 | 16.93 | 25.06 | 5.44 | 10.69 | 6.560 | 0.331 |
| 9/30/1974 | 1.99 | 0.00 | 0.00 | 13.06 | 25.12 | 5.44 | 11.08 | 6.128 | 0.343 |
| 10/31/1974 | 1.80 | 0.00 | 0.00 | 1.94 | 25.18 | 5.44 | 11.14 | 1.007 | 0.344 |
| 11/30/1974 | 1.10 | 0.00 | 0.00 | | 25.21 | 5.44 | 11.14 | 0.000 | 0.344 |
| 5/31/1975 | 2.09 | 0.00 | 0.00 | | 25.28 | 5.44 | 11.14 | 0.000 | 0.343 |
| 6/30/1975 | 2.88 | 0.00 | 0.00 | | 25.36 | 5.44 | 11.14 | 0.000 | 0.342 |
| 7/31/1975 | 2.41 | 0.00 | 0.00 | | 25.44 | 5.44 | 11.14 | 0.000 | 0.341 |
| 8/31/1975 | 2.24 | 0.00 | 0.00 | | 25.51 | 5.44 | 11.14 | 0.000 | 0.340 |
| 9/30/1975 | 2.10 | 0.00 | 0.00 | | 25.57 | 5.44 | 11.14 | 0.000 | 0.340 |
| 10/31/1975 | 1.73 | 0.00 | 0.00 | | 25.62 | 5.44 | 11.14 | 0.000 | 0.339 |
| 11/30/1975 | 1.91 | 0.00 | 0.00 | | 25.68 | 5.44 | 11.14 | 0.000 | 0.339 |
| 12/31/1975 | 1.30 | 0.00 | 0.00 | | 25.72 | 5.44 | 11.14 | 0.000 | 0.338 |
| 1/31/1976 | 0.26 | 0.00 | 0.00 | | 25.73 | 5.44 | 11.14 | 0.000 | 0.338 |
| 5/31/1976 | 2.09 | 0.00 | 0.00 | | 25.79 | 5.44 | 11.14 | 0.000 | 0.337 |
| 6/30/1976 | 2.12 | 0.00 | 0.00 | | 25.86 | 5.44 | 11.14 | 0.000 | 0.337 |
| 7/31/1976 | 2.37 | 0.00 | 0.00 | | 25.93 | 5.44 | 11.14 | 0.000 | 0.336 |
| 8/31/1976 | 2.01 | 0.00 | 0.00 | | 25.99 | 5.44 | 11.14 | 0.000 | 0.335 |
| 9/30/1976 | 1.86 | 0.00 | 0.00 | | 26.05 | 5.44 | 11.14 | 0.000 | 0.335 |
| 10/31/1976 | 1.83 | 0.00 | 0.00 | | 26.10 | 5.44 | 11.14 | 0.000 | 0.334 |
| 11/30/1976 | 1.85 | 0.00 | 0.00 | | 26.16 | 5.44 | 11.14 | 0.000 | 0.333 |
| 12/31/1976 | 0.16 | 0.00 | 0.00 | | 26.16 | 5.44 | 11.14 | 0.000 | 0.333 |
| 2/28/1977 | 1.78 | 0.00 | 0.00 | | 26.21 | 5.44 | 11.14 | 0.000 | 0.333 |
| 3/31/1977 | 2.41 | 0.00 | 0.00 | | 26.29 | 5.44 | 11.14 | 0.000 | 0.332 |
| 4/30/1977 | 1.90 | 0.00 | 0.00 | | 26.35 | 5.44 | 11.14 | 0.000 | 0.331 |
| 5/31/1977 | 1.90 | 0.00 | 0.00 | | 26.41 | 5.44 | 11.14 | 0.000 | 0.331 |
| 6/30/1977 | 1.68 | 0.00 | 0.00 | | 26.46 | 5.44 | 11.14 | 0.000 | 0.330 |
| 7/31/1977 | 1.67 | 0.00 | 0.00 | | 26.51 | 5.44 | 11.14 | 0.000 | 0.330 |
| 8/31/1977 | 1.69 | 0.00 | 0.00 | | 26.56 | 5.44 | 11.14 | 0.000 | 0.329 |
| 9/30/1977 | 1.20 | 0.00 | 0.00 | | 26.60 | 5.44 | 11.14 | 0.000 | 0.329 |
| 10/31/1977 | 0.12 | 0.00 | 0.00 | | 26.60 | 5.44 | 11.14 | 0.000 | 0.329 |
| 11/30/1977 | 1.95 | 0.00 | 0.00 | | 26.66 | 5.44 | 11.14 | 0.000 | 0.328 |
| 12/31/1977 | 0.33 | 0.00 | 0.00 | | 26.67 | 5.44 | 11.14 | 0.000 | 0.328 |
| 3/31/1978 | 0.85 | 0.00 | 0.00 | | 26.69 | 5.44 | 11.14 | 0.000 | 0.328 |
| 4/30/1978 | 2.83 | 0.00 | 0.00 | | 26.78 | 5.44 | 11.14 | 0.000 | 0.327 |
| 5/31/1978 | 1.79 | 0.00 | 0.00 | | 26.84 | 5.44 | 11.14 | 0.000 | 0.326 |
| 6/30/1978 | 1.62 | 1.09 | 0.67 | | 26.88 | 5.48 | 11.14 | 0.000 | 0.325 |
| 7/31/1978 | 2.36 | 0.35 | 0.15 | | 26.96 | 5.49 | 11.14 | 0.000 | 0.325 |
| 8/31/1978 | 2.04 | 0.19 | 0.09 | | 27.02 | 5.49 | 11.14 | 0.000 | 0.324 |
| 9/30/1978 | 2.00 | 0.32 | 0.16 | 55.89 | 27.08 | 5.50 | 12.82 | 22.727 | 0.372 |
| 10/31/1978 | 1.78 | 0.14 | 0.08 | 99.14 | 27.14 | 5.51 | 15.89 | 48.371 | 0.460 |
| 11/30/1978 | 1.91 | 0.11 | 0.06 | | 27.19 | 5.51 | 15.89 | 0.000 | 0.459 |
| 12/31/1978 | 1.67 | 0.13 | 0.08 | 44.62 | 27.25 | 5.52 | 17.27 | 23.332 | 0.498 |
| 1/31/1979 | 0.52 | 0.00 | 0.00 | 18.90 | 27.26 | 5.52 | 17.86 | 34.036 | 0.515 |
| 2/28/1979 | 1.64 | 0.00 | 0.00 | 2.12 | 27.31 | 5.52 | 17.92 | 1.208 | 0.516 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 3/31/1979 | 1.58 | 0.06 | 0.04 | 5.12 | 27.36 | 5.52 | 18.08 | 2.928 | 0.520 |
| 4/30/1979 | 1.90 | 0.12 | 0.06 | 12.98 | 27.41 | 5.52 | 18.47 | 6.030 | 0.530 |
| 5/31/1979 | 1.80 | 0.05 | 0.03 | 44.14 | 27.47 | 5.52 | 19.84 | 22.403 | 0.568 |
| 6/30/1979 | 1.70 | 0.03 | 0.02 | 67.71 | 27.52 | 5.52 | 21.87 | 36.777 | 0.626 |
| 7/31/1979 | 1.76 | 0.10 | 0.05 | 37.60 | 27.57 | 5.53 | 23.03 | 18.952 | 0.658 |
| 8/31/1979 | 1.66 | 0.02 | 0.01 | 12.47 | 27.63 | 5.53 | 23.42 | 6.968 | 0.668 |
| 9/30/1979 | 1.64 | 0.03 | 0.02 | | 27.68 | 5.53 | 23.42 | 0.000 | 0.667 |
| 10/31/1979 | 1.63 | 0.05 | 0.03 | | 27.73 | 5.53 | 23.42 | 0.000 | 0.666 |
| 11/30/1979 | 1.78 | 0.00 | 0.00 | | 27.78 | 5.53 | 23.42 | 0.000 | 0.665 |
| 12/31/1979 | 1.63 | 0.00 | 0.00 | | 27.83 | 5.53 | 23.42 | 0.000 | 0.664 |
| 1/31/1980 | 1.36 | 0.00 | 0.00 | | 27.87 | 5.53 | 23.42 | 0.000 | 0.663 |
| 2/29/1980 | 1.49 | 0.00 | 0.00 | 22.09 | 27.91 | 5.53 | 24.06 | 13.834 | 0.680 |
| 3/31/1980 | 1.50 | 0.09 | 0.06 | 14.05 | 27.96 | 5.53 | 24.49 | 8.292 | 0.691 |
| 4/30/1980 | 1.09 | 0.00 | 0.00 | 7.16 | 27.99 | 5.53 | 24.71 | 6.145 | 0.697 |
| 5/31/1980 | 1.24 | 0.00 | 0.00 | 6.39 | 28.03 | 5.53 | 24.91 | 4.814 | 0.701 |
| 6/30/1980 | 1.64 | 0.00 | 0.00 | 2.37 | 28.08 | 5.53 | 24.98 | 1.349 | 0.702 |
| 7/31/1980 | 1.28 | 0.00 | 0.00 | | 28.12 | 5.53 | 24.98 | 0.000 | 0.702 |
| 8/31/1980 | 1.39 | 0.00 | 0.00 | | 28.16 | 5.53 | 24.98 | 0.000 | 0.701 |
| 9/30/1980 | 1.34 | 0.00 | 0.00 | | 28.20 | 5.53 | 24.98 | 0.000 | 0.700 |
| 10/31/1980 | 1.37 | 0.00 | 0.00 | | 28.25 | 5.53 | 24.98 | 0.000 | 0.699 |
| 11/30/1980 | 1.04 | 0.00 | 0.00 | | 28.28 | 5.53 | 24.98 | 0.000 | 0.698 |
| 12/31/1980 | 1.48 | 0.00 | 0.00 | | 28.32 | 5.53 | 24.98 | 0.000 | 0.697 |
| 1/31/1981 | 1.47 | 0.00 | 0.00 | | 28.37 | 5.53 | 24.98 | 0.000 | 0.696 |
| 2/28/1981 | 1.25 | 0.00 | 0.00 | | 28.41 | 5.53 | 24.98 | 0.000 | 0.696 |
| 3/31/1981 | 1.51 | 0.00 | 0.00 | | 28.45 | 5.53 | 24.98 | 0.000 | 0.695 |
| 4/30/1981 | 1.30 | 0.00 | 0.00 | | 28.49 | 5.53 | 24.98 | 0.000 | 0.694 |
| 5/31/1981 | 1.30 | 0.00 | 0.00 | | 28.53 | 5.53 | 24.98 | 0.000 | 0.693 |
| 6/30/1981 | 1.31 | 0.00 | 0.00 | | 28.57 | 5.53 | 24.98 | 0.000 | 0.692 |
| 7/31/1981 | 1.13 | 0.00 | 0.00 | | 28.61 | 5.53 | 24.98 | 0.000 | 0.692 |
| 8/31/1981 | 1.38 | 0.00 | 0.00 | | 28.65 | 5.53 | 24.98 | 0.000 | 0.691 |
| 9/30/1981 | 1.54 | 0.00 | 0.00 | | 28.69 | 5.53 | 24.98 | 0.000 | 0.690 |
| 10/31/1981 | 1.45 | 0.00 | 0.00 | | 28.74 | 5.53 | 24.98 | 0.000 | 0.689 |
| 11/30/1981 | 1.40 | 0.00 | 0.00 | | 28.78 | 5.53 | 24.98 | 0.000 | 0.688 |
| 12/31/1981 | 1.35 | 0.00 | 0.00 | | 28.82 | 5.53 | 24.98 | 0.000 | 0.687 |
| 1/31/1982 | 1.55 | 0.00 | 0.00 | | 28.87 | 5.53 | 24.98 | 0.000 | 0.686 |
| 2/28/1982 | 1.34 | 0.00 | 0.00 | | 28.91 | 5.53 | 24.98 | 0.000 | 0.685 |
| 3/31/1982 | 1.49 | 0.00 | 0.00 | | 28.95 | 5.53 | 24.98 | 0.000 | 0.684 |
| 4/30/1982 | 1.44 | 0.00 | 0.00 | | 29.00 | 5.53 | 24.98 | 0.000 | 0.684 |
| 5/31/1982 | 1.14 | 0.00 | 0.00 | | 29.03 | 5.53 | 24.98 | 0.000 | 0.683 |
| 6/30/1982 | 1.51 | 0.00 | 0.00 | | 29.08 | 5.53 | 24.98 | 0.000 | 0.682 |
| 7/31/1982 | 1.38 | 0.00 | 0.00 | | 29.12 | 5.53 | 24.98 | 0.000 | 0.681 |
| 8/31/1982 | 1.45 | 0.00 | 0.00 | | 29.17 | 5.53 | 24.98 | 0.000 | 0.680 |
| 9/30/1982 | 1.35 | 0.00 | 0.00 | | 29.21 | 5.53 | 24.98 | 0.000 | 0.679 |
| 10/31/1982 | 1.37 | 0.00 | 0.00 | | 29.25 | 5.53 | 24.98 | 0.000 | 0.679 |
| 11/30/1982 | 1.37 | 0.00 | 0.00 | | 29.29 | 5.53 | 24.98 | 0.000 | 0.678 |
| 12/31/1982 | 1.37 | 0.00 | 0.00 | | 29.33 | 5.53 | 24.98 | 0.000 | 0.677 |
| 1/31/1983 | 1.42 | 0.00 | 0.00 | | 29.38 | 5.53 | 24.98 | 0.000 | 0.676 |
| 2/28/1983 | 1.36 | 0.00 | 0.00 | | 29.42 | 5.53 | 24.98 | 0.000 | 0.675 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 3/31/1983 | 1.42 | 0.00 | 0.00 | | 29.46 | 5.53 | 24.98 | 0.000 | 0.674 |
| 4/30/1983 | 1.36 | 0.00 | 0.00 | | 29.50 | 5.53 | 24.98 | 0.000 | 0.674 |
| 5/31/1983 | 1.37 | 0.00 | 0.00 | | 29.54 | 5.53 | 24.98 | 0.000 | 0.673 |
| 6/30/1983 | 1.39 | 0.00 | 0.00 | | 29.58 | 5.53 | 24.98 | 0.000 | 0.672 |
| 7/31/1983 | 1.35 | 0.00 | 0.00 | | 29.63 | 5.53 | 24.98 | 0.000 | 0.671 |
| 8/31/1983 | 1.37 | 0.00 | 0.00 | | 29.67 | 5.53 | 24.98 | 0.000 | 0.670 |
| 9/30/1983 | 1.34 | 0.00 | 0.00 | | 29.71 | 5.53 | 24.98 | 0.000 | 0.670 |
| 10/31/1983 | 1.32 | 0.00 | 0.00 | | 29.75 | 5.53 | 24.98 | 0.000 | 0.669 |
| 11/30/1983 | 1.33 | 0.00 | 0.00 | | 29.79 | 5.53 | 24.98 | 0.000 | 0.668 |
| 12/31/1983 | 1.37 | 0.00 | 0.00 | | 29.83 | 5.53 | 24.98 | 0.000 | 0.667 |
| 1/31/1984 | 1.37 | 0.00 | 0.00 | | 29.87 | 5.53 | 24.98 | 0.000 | 0.666 |
| 2/29/1984 | 1.38 | 0.00 | 0.00 | | 29.91 | 5.53 | 24.98 | 0.000 | 0.666 |
| 3/31/1984 | 1.36 | 0.00 | 0.00 | | 29.96 | 5.53 | 24.98 | 0.000 | 0.665 |
| 4/30/1984 | 1.31 | 0.00 | 0.00 | | 30.00 | 5.53 | 24.98 | 0.000 | 0.664 |
| 5/31/1984 | 1.43 | 0.00 | 0.00 | | 30.04 | 5.53 | 24.98 | 0.000 | 0.663 |
| 6/30/1984 | 1.36 | 0.00 | 0.00 | | 30.08 | 5.53 | 24.98 | 0.000 | 0.663 |
| 7/31/1984 | 1.34 | 0.00 | 0.00 | | 30.12 | 5.53 | 24.98 | 0.000 | 0.662 |
| 8/31/1984 | 1.31 | 0.00 | 0.00 | | 30.16 | 5.53 | 24.98 | 0.000 | 0.661 |
| 9/30/1984 | 1.32 | 0.00 | 0.00 | | 30.20 | 5.53 | 24.98 | 0.000 | 0.660 |
| 10/31/1984 | 1.37 | 0.00 | 0.00 | | 30.25 | 5.53 | 24.98 | 0.000 | 0.659 |
| 11/30/1984 | 1.33 | 0.00 | 0.00 | | 30.29 | 5.53 | 24.98 | 0.000 | 0.659 |
| 12/31/1984 | 1.56 | 0.33 | 0.21 | | 30.33 | 5.54 | 24.98 | 0.000 | 0.658 |
| 1/31/1985 | 1.51 | 0.87 | 0.58 | | 30.38 | 5.57 | 24.98 | 0.000 | 0.656 |
| 2/28/1985 | 1.31 | 0.00 | 0.00 | | 30.42 | 5.57 | 24.98 | 0.000 | 0.656 |
| 3/31/1985 | 1.48 | 0.46 | 0.31 | | 30.46 | 5.58 | 24.98 | 0.000 | 0.655 |
| 4/30/1985 | 1.49 | 0.76 | 0.51 | | 30.51 | 5.61 | 24.98 | 0.000 | 0.653 |
| 5/31/1985 | 1.32 | 0.00 | 0.00 | | 30.55 | 5.61 | 24.98 | 0.000 | 0.653 |
| 6/30/1985 | 1.23 | 3.79 | 3.08 | | 30.59 | 5.72 | 24.98 | 0.000 | 0.650 |
| 7/31/1985 | 1.32 | 0.00 | 0.00 | | 30.63 | 5.72 | 24.98 | 0.000 | 0.649 |
| 8/31/1985 | 0.97 | 0.00 | 0.00 | | 30.66 | 5.72 | 24.98 | 0.000 | 0.649 |
| 9/30/1985 | 1.35 | 0.00 | 0.00 | | 30.70 | 5.72 | 24.98 | 0.000 | 0.648 |
| 10/31/1985 | 1.06 | 0.00 | 0.00 | | 30.73 | 5.72 | 24.98 | 0.000 | 0.647 |
| 11/30/1985 | 0.89 | 0.03 | 0.03 | | 30.76 | 5.72 | 24.98 | 0.000 | 0.647 |
| 12/31/1985 | 0.99 | 0.03 | 0.03 | | 30.79 | 5.72 | 24.98 | 0.000 | 0.646 |
| 1/31/1986 | 1.01 | 0.03 | 0.03 | | 30.82 | 5.72 | 24.98 | 0.000 | 0.646 |
| 2/28/1986 | 1.20 | 0.03 | 0.02 | | 30.85 | 5.72 | 24.98 | 0.000 | 0.645 |
| 3/31/1986 | 1.34 | 0.05 | 0.04 | | 30.89 | 5.72 | 24.98 | 0.000 | 0.644 |
| 4/30/1986 | 1.32 | 0.06 | 0.05 | | 30.93 | 5.73 | 24.98 | 0.000 | 0.644 |
| 5/31/1986 | 1.27 | 0.03 | 0.03 | | 30.97 | 5.73 | 24.98 | 0.000 | 0.643 |
| 6/30/1986 | 1.43 | 0.03 | 0.02 | | 31.01 | 5.73 | 24.98 | 0.000 | 0.642 |
| 7/31/1986 | 1.25 | 0.06 | 0.05 | | 31.05 | 5.73 | 24.98 | 0.000 | 0.641 |
| 8/31/1986 | 1.33 | 0.06 | 0.04 | | 31.09 | 5.73 | 24.98 | 0.000 | 0.641 |
| 9/30/1986 | 1.34 | 0.06 | 0.04 | | 31.14 | 5.73 | 24.98 | 0.000 | 0.640 |
| 10/31/1986 | 1.34 | 0.06 | 0.04 | | 31.18 | 5.74 | 24.98 | 0.000 | 0.639 |
| 11/30/1986 | 1.34 | 0.07 | 0.05 | | 31.22 | 5.74 | 24.98 | 0.000 | 0.638 |
| 12/31/1986 | 1.35 | 0.06 | 0.04 | | 31.26 | 5.74 | 24.98 | 0.000 | 0.638 |
| 1/31/1987 | 1.34 | 0.06 | 0.04 | | 31.30 | 5.74 | 24.98 | 0.000 | 0.637 |
| 2/28/1987 | 1.35 | 0.06 | 0.04 | | 31.34 | 5.74 | 24.98 | 0.000 | 0.636 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 3/31/1987 | 1.34 | 0.06 | 0.04 | | 31.38 | 5.74 | 24.98 | 0.000 | 0.636 |
| 4/30/1987 | 1.34 | 0.06 | 0.04 | | 31.42 | 5.75 | 24.98 | 0.000 | 0.635 |
| 5/31/1987 | 1.29 | 0.06 | 0.04 | | 31.46 | 5.75 | 24.98 | 0.000 | 0.634 |
| 6/30/1987 | 1.29 | 0.06 | 0.05 | | 31.50 | 5.75 | 24.98 | 0.000 | 0.633 |
| 7/31/1987 | 1.31 | 0.06 | 0.04 | | 31.54 | 5.75 | 24.98 | 0.000 | 0.633 |
| 8/31/1987 | 1.34 | 0.06 | 0.04 | | 31.58 | 5.75 | 24.98 | 0.000 | 0.632 |
| 9/30/1987 | 1.36 | 0.07 | 0.05 | | 31.62 | 5.76 | 24.98 | 0.000 | 0.631 |
| 10/31/1987 | 1.17 | 0.05 | 0.04 | | 31.66 | 5.76 | 24.98 | 0.000 | 0.631 |
| 11/30/1987 | 1.31 | 0.03 | 0.03 | | 31.70 | 5.76 | 24.98 | 0.000 | 0.630 |
| 12/31/1987 | 1.27 | 0.03 | 0.03 | | 31.74 | 5.76 | 24.98 | 0.000 | 0.629 |
| 1/31/1988 | 1.25 | 0.04 | 0.03 | | 31.78 | 5.76 | 24.98 | 0.000 | 0.629 |
| 2/29/1988 | 0.70 | 0.02 | 0.03 | | 31.80 | 5.76 | 24.98 | 0.000 | 0.628 |
| 3/31/1988 | 0.91 | 0.02 | 0.02 | | 31.82 | 5.76 | 24.98 | 0.000 | 0.628 |
| 4/30/1988 | 0.87 | 0.02 | 0.02 | | 31.85 | 5.76 | 24.98 | 0.000 | 0.627 |
| 5/31/1988 | 1.22 | 0.03 | 0.03 | | 31.89 | 5.76 | 24.98 | 0.000 | 0.627 |
| 6/30/1988 | 1.15 | 0.03 | 0.03 | | 31.92 | 5.76 | 24.98 | 0.000 | 0.626 |
| 7/31/1988 | 1.29 | 0.03 | 0.02 | | 31.96 | 5.77 | 24.98 | 0.000 | 0.625 |
| 8/31/1988 | 1.23 | 0.04 | 0.03 | | 32.00 | 5.77 | 24.98 | 0.000 | 0.625 |
| 9/30/1988 | 1.28 | 0.08 | 0.06 | | 32.04 | 5.77 | 24.98 | 0.000 | 0.624 |
| 10/31/1988 | 1.26 | 0.08 | 0.07 | | 32.08 | 5.77 | 24.98 | 0.000 | 0.623 |
| 11/30/1988 | 1.33 | 0.08 | 0.06 | | 32.12 | 5.77 | 24.98 | 0.000 | 0.623 |
| 12/31/1988 | 1.21 | 0.08 | 0.07 | | 32.16 | 5.78 | 24.98 | 0.000 | 0.622 |
| 1/31/1989 | 1.17 | 0.08 | 0.07 | | 32.19 | 5.78 | 24.98 | 0.000 | 0.621 |
| 2/28/1989 | 1.14 | 0.08 | 0.07 | | 32.22 | 5.78 | 24.98 | 0.000 | 0.621 |
| 3/31/1989 | 0.50 | 0.04 | 0.08 | | 32.24 | 5.78 | 24.98 | 0.000 | 0.620 |
| 4/30/1989 | 0.41 | 0.04 | 0.09 | | 32.25 | 5.78 | 24.98 | 0.000 | 0.620 |
| 5/31/1989 | 1.35 | 0.10 | 0.08 | | 32.29 | 5.79 | 24.98 | 0.000 | 0.620 |
| 6/30/1989 | 1.43 | 0.11 | 0.08 | | 32.34 | 5.79 | 24.98 | 0.000 | 0.619 |
| 7/31/1989 | 1.31 | 0.10 | 0.07 | | 32.38 | 5.79 | 24.98 | 0.000 | 0.618 |
| 8/31/1989 | 1.13 | 0.06 | 0.06 | | 32.41 | 5.79 | 24.98 | 0.000 | 0.617 |
| 9/30/1989 | 1.09 | 0.07 | 0.07 | | 32.44 | 5.80 | 24.98 | 0.000 | 0.617 |
| 10/31/1989 | 1.01 | 0.12 | 0.12 | | 32.48 | 5.80 | 24.98 | 0.000 | 0.616 |
| 11/30/1989 | 1.04 | 0.06 | 0.06 | | 32.51 | 5.80 | 24.98 | 0.000 | 0.616 |
| 12/31/1989 | 1.13 | 0.07 | 0.07 | | 32.54 | 5.80 | 24.98 | 0.000 | 0.615 |
| 1/31/1990 | 0.99 | 0.07 | 0.08 | | 32.57 | 5.81 | 24.98 | 0.000 | 0.615 |
| 2/28/1990 | 1.18 | 0.08 | 0.07 | | 32.61 | 5.81 | 24.98 | 0.000 | 0.614 |
| 3/31/1990 | 1.40 | 0.05 | 0.04 | | 32.65 | 5.81 | 24.98 | 0.000 | 0.613 |
| 4/30/1990 | 1.21 | 0.13 | 0.11 | | 32.69 | 5.82 | 24.98 | 0.000 | 0.613 |
| 5/31/1990 | 1.16 | 0.13 | 0.11 | | 32.72 | 5.82 | 24.98 | 0.000 | 0.612 |
| 6/30/1990 | 1.26 | 4.33 | 3.45 | | 32.76 | 5.95 | 24.98 | 0.000 | 0.610 |
| 7/31/1990 | 1.36 | 0.07 | 0.05 | | 32.80 | 5.95 | 24.98 | 0.000 | 0.609 |
| 8/31/1990 | 1.28 | 0.07 | 0.06 | | 32.84 | 5.95 | 24.98 | 0.000 | 0.608 |
| 9/30/1990 | 1.21 | 0.09 | 0.08 | | 32.88 | 5.96 | 24.98 | 0.000 | 0.608 |
| 10/31/1990 | 1.16 | 0.08 | 0.07 | | 32.91 | 5.96 | 24.98 | 0.000 | 0.607 |
| 11/30/1990 | 1.13 | 0.05 | 0.05 | | 32.95 | 5.96 | 24.98 | 0.000 | 0.606 |
| 12/31/1990 | 1.15 | 0.08 | 0.07 | | 32.98 | 5.96 | 24.98 | 0.000 | 0.606 |
| 1/31/1991 | 1.27 | 0.07 | 0.05 | | 33.02 | 5.96 | 24.98 | 0.000 | 0.605 |
| 2/28/1991 | 1.24 | 0.13 | 0.10 | | 33.06 | 5.97 | 24.98 | 0.000 | 0.605 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 3/31/1991 | 1.23 | 0.08 | 0.06 | | 33.09 | 5.97 | 24.98 | 0.000 | 0.604 |
| 4/30/1991 | 1.20 | 0.12 | 0.10 | | 33.13 | 5.97 | 24.98 | 0.000 | 0.603 |
| 5/31/1991 | 1.20 | 0.07 | 0.06 | | 33.17 | 5.98 | 24.98 | 0.000 | 0.603 |
| 6/30/1991 | 1.30 | 0.03 | 0.03 | | 33.21 | 5.98 | 24.98 | 0.000 | 0.602 |
| 7/31/1991 | 1.25 | 0.05 | 0.04 | | 33.25 | 5.98 | 24.98 | 0.000 | 0.601 |
| 8/31/1991 | 0.99 | 0.08 | 0.08 | | 33.28 | 5.98 | 24.98 | 0.000 | 0.601 |
| 9/30/1991 | 1.27 | 0.06 | 0.05 | | 33.31 | 5.98 | 24.98 | 0.000 | 0.600 |
| 10/31/1991 | 1.20 | 0.05 | 0.04 | | 33.35 | 5.99 | 24.98 | 0.000 | 0.600 |
| 11/30/1991 | 1.28 | 0.09 | 0.07 | | 33.39 | 5.99 | 24.98 | 0.000 | 0.599 |
| 12/31/1991 | 1.25 | 0.07 | 0.06 | | 33.43 | 5.99 | 24.98 | 0.000 | 0.598 |
| 1/31/1992 | 1.24 | 0.33 | 0.26 | | 33.47 | 6.00 | 24.98 | 0.000 | 0.598 |
| 2/29/1992 | 1.15 | 0.09 | 0.08 | | 33.50 | 6.00 | 24.98 | 0.000 | 0.597 |
| 3/31/1992 | 1.25 | 0.08 | 0.06 | | 33.54 | 6.01 | 24.98 | 0.000 | 0.597 |
| 4/30/1992 | 1.30 | 0.08 | 0.06 | | 33.58 | 6.01 | 24.98 | 0.000 | 0.596 |
| 5/31/1992 | 1.27 | 0.08 | 0.06 | | 33.62 | 6.01 | 24.98 | 0.000 | 0.595 |
| 6/30/1992 | 1.27 | 0.08 | 0.06 | | 33.66 | 6.01 | 24.98 | 0.000 | 0.595 |
| 7/31/1992 | 1.39 | 0.05 | 0.04 | | 33.70 | 6.01 | 24.98 | 0.000 | 0.594 |
| 8/31/1992 | 1.18 | 0.07 | 0.06 | | 33.74 | 6.02 | 24.98 | 0.000 | 0.593 |
| 9/30/1992 | 1.21 | 0.08 | 0.07 | | 33.77 | 6.02 | 24.98 | 0.000 | 0.593 |
| 10/31/1992 | 1.18 | 0.08 | 0.07 | | 33.81 | 6.02 | 24.98 | 0.000 | 0.592 |
| 11/30/1992 | 1.06 | 0.10 | 0.10 | | 33.84 | 6.02 | 24.98 | 0.000 | 0.592 |
| 12/31/1992 | 1.25 | 0.04 | 0.03 | | 33.88 | 6.03 | 24.98 | 0.000 | 0.591 |
| 1/31/1993 | 0.91 | 0.03 | 0.04 | | 33.91 | 6.03 | 24.98 | 0.000 | 0.591 |
| 2/28/1993 | 1.23 | 0.06 | 0.05 | | 33.94 | 6.03 | 24.98 | 0.000 | 0.590 |
| 3/31/1993 | 1.13 | 0.15 | 0.13 | | 33.98 | 6.03 | 24.98 | 0.000 | 0.590 |
| 4/30/1993 | 1.27 | 0.05 | 0.04 | | 34.01 | 6.03 | 24.98 | 0.000 | 0.589 |
| 5/31/1993 | 1.23 | 0.08 | 0.07 | | 34.05 | 6.04 | 24.98 | 0.000 | 0.588 |
| 6/30/1993 | 1.23 | 0.08 | 0.06 | | 34.09 | 6.04 | 24.98 | 0.000 | 0.588 |
| 7/31/1993 | 1.15 | 0.08 | 0.07 | | 34.13 | 6.04 | 24.98 | 0.000 | 0.587 |
| 8/31/1993 | 1.22 | 0.07 | 0.06 | | 34.16 | 6.04 | 24.98 | 0.000 | 0.587 |
| 9/30/1993 | 1.21 | 0.01 | 0.01 | | 34.20 | 6.04 | 24.98 | 0.000 | 0.586 |
| 10/31/1993 | 1.18 | 0.02 | 0.02 | | 34.24 | 6.04 | 24.98 | 0.000 | 0.586 |
| 11/30/1993 | 1.16 | 0.03 | 0.02 | | 34.27 | 6.05 | 24.98 | 0.000 | 0.585 |
| 12/31/1993 | 0.98 | 0.01 | 0.01 | | 34.30 | 6.05 | 24.98 | 0.000 | 0.585 |
| 1/31/1994 | 0.72 | 0.01 | 0.02 | | 34.32 | 6.05 | 24.98 | 0.000 | 0.584 |
| 2/28/1994 | 1.05 | 0.00 | 0.00 | | 34.35 | 6.05 | 24.98 | 0.000 | 0.584 |
| 3/31/1994 | 0.94 | 0.01 | 0.01 | | 34.38 | 6.05 | 24.98 | 0.000 | 0.583 |
| 4/30/1994 | 0.61 | 0.01 | 0.01 | | 34.40 | 6.05 | 24.98 | 0.000 | 0.583 |
| 5/31/1994 | 1.03 | 0.06 | 0.06 | | 34.43 | 6.05 | 24.98 | 0.000 | 0.583 |
| 6/30/1994 | 1.64 | 0.02 | 0.01 | | 34.48 | 6.05 | 24.98 | 0.000 | 0.582 |
| 7/31/1994 | 1.23 | 0.02 | 0.01 | | 34.52 | 6.05 | 24.98 | 0.000 | 0.581 |
| 8/31/1994 | 1.23 | 0.04 | 0.03 | | 34.56 | 6.05 | 24.98 | 0.000 | 0.581 |
| 9/30/1994 | 1.16 | 0.00 | 0.00 | | 34.59 | 6.05 | 24.98 | 0.000 | 0.580 |
| 10/31/1994 | 1.24 | 0.00 | 0.00 | | 34.63 | 6.05 | 24.98 | 0.000 | 0.580 |
| 11/30/1994 | 1.15 | 0.00 | 0.00 | | 34.67 | 6.05 | 24.98 | 0.000 | 0.579 |
| 12/31/1994 | 0.94 | 0.01 | 0.01 | | 34.70 | 6.05 | 24.98 | 0.000 | 0.579 |
| 1/31/1995 | 0.87 | 0.04 | 0.05 | | 34.72 | 6.05 | 24.98 | 0.000 | 0.578 |
| 2/28/1995 | 0.90 | 0.02 | 0.02 | | 34.75 | 6.05 | 24.98 | 0.000 | 0.578 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 3/31/1995 | 0.89 | 0.03 | 0.04 | | 34.77 | 6.05 | 24.98 | 0.000 | 0.578 |
| 4/30/1995 | 1.25 | 0.08 | 0.06 | | 34.81 | 6.06 | 24.98 | 0.000 | 0.577 |
| 5/31/1995 | 1.31 | 0.02 | 0.02 | | 34.85 | 6.06 | 24.98 | 0.000 | 0.576 |
| 6/30/1995 | 1.33 | 0.02 | 0.02 | | 34.89 | 6.06 | 24.98 | 0.000 | 0.576 |
| 7/31/1995 | 1.22 | 0.02 | 0.02 | | 34.93 | 6.06 | 24.98 | 0.000 | 0.575 |
| 8/31/1995 | 1.32 | 0.02 | 0.01 | | 34.97 | 6.06 | 24.98 | 0.000 | 0.575 |
| 9/30/1995 | 1.18 | 0.05 | 0.05 | | 35.01 | 6.06 | 24.98 | 0.000 | 0.574 |
| 10/31/1995 | 1.12 | 0.05 | 0.04 | | 35.04 | 6.06 | 24.98 | 0.000 | 0.574 |
| 11/30/1995 | 0.89 | 0.06 | 0.06 | | 35.07 | 6.06 | 24.98 | 0.000 | 0.573 |
| 12/31/1995 | 1.05 | 0.06 | 0.06 | | 35.10 | 6.07 | 24.98 | 0.000 | 0.573 |
| 1/31/1996 | 0.98 | 0.05 | 0.05 | | 35.13 | 6.07 | 24.98 | 0.000 | 0.572 |
| 2/29/1996 | 0.93 | 0.05 | 0.06 | | 35.16 | 6.07 | 24.98 | 0.000 | 0.572 |
| 3/31/1996 | 0.99 | 0.04 | 0.04 | | 35.19 | 6.07 | 24.98 | 0.000 | 0.572 |
| 4/30/1996 | 0.92 | 0.05 | 0.05 | | 35.22 | 6.07 | 24.98 | 0.000 | 0.571 |
| 5/31/1996 | 0.63 | 0.04 | 0.06 | | 35.24 | 6.07 | 24.98 | 0.000 | 0.571 |
| 6/30/1996 | 0.69 | 0.05 | 0.07 | | 35.26 | 6.07 | 24.98 | 0.000 | 0.571 |
| 7/31/1996 | 1.08 | 0.04 | 0.04 | | 35.29 | 6.08 | 24.98 | 0.000 | 0.570 |
| 8/31/1996 | 1.06 | 0.06 | 0.05 | | 35.32 | 6.08 | 24.98 | 0.000 | 0.570 |
| 9/30/1996 | 1.21 | 0.08 | 0.06 | | 35.36 | 6.08 | 24.98 | 0.000 | 0.569 |
| 10/31/1996 | 1.23 | 0.09 | 0.07 | | 35.40 | 6.08 | 24.98 | 0.000 | 0.569 |
| 11/30/1996 | 1.22 | 0.08 | 0.07 | | 35.43 | 6.08 | 24.98 | 0.000 | 0.568 |
| 12/31/1996 | 1.13 | 0.12 | 0.10 | | 35.47 | 6.09 | 24.98 | 0.000 | 0.567 |
| 1/31/1997 | 1.34 | 0.09 | 0.07 | | 35.51 | 6.09 | 24.98 | 0.000 | 0.567 |
| 2/28/1997 | 1.21 | 0.12 | 0.10 | | 35.54 | 6.09 | 24.98 | 0.000 | 0.566 |
| 3/31/1997 | 0.97 | 0.14 | 0.15 | | 35.57 | 6.10 | 24.98 | 0.000 | 0.566 |
| 4/30/1997 | 0.95 | 0.09 | 0.10 | | 35.60 | 6.10 | 24.98 | 0.000 | 0.565 |
| 5/31/1997 | 1.10 | 0.05 | 0.05 | | 35.64 | 6.10 | 24.98 | 0.000 | 0.565 |
| 6/30/1997 | 1.15 | 0.06 | 0.05 | | 35.67 | 6.11 | 24.98 | 0.000 | 0.564 |
| 7/31/1997 | 1.02 | 0.06 | 0.06 | | 35.70 | 6.11 | 24.98 | 0.000 | 0.564 |
| 8/31/1997 | 1.19 | 0.05 | 0.04 | | 35.74 | 6.11 | 24.98 | 0.000 | 0.563 |
| 9/30/1997 | 1.19 | 0.05 | 0.04 | | 35.78 | 6.11 | 24.98 | 0.000 | 0.563 |
| 10/31/1997 | 1.02 | 0.06 | 0.06 | | 35.81 | 6.11 | 24.98 | 0.000 | 0.563 |
| 11/30/1997 | 1.05 | 0.08 | 0.08 | | 35.84 | 6.11 | 24.98 | 0.000 | 0.562 |
| 12/31/1997 | 0.88 | 0.05 | 0.05 | | 35.87 | 6.12 | 24.98 | 0.000 | 0.562 |
| 1/31/1998 | 0.85 | 0.06 | 0.07 | | 35.89 | 6.12 | 24.98 | 0.000 | 0.561 |
| 2/28/1998 | 0.83 | 0.05 | 0.06 | | 35.92 | 6.12 | 24.98 | 0.000 | 0.561 |
| 3/31/1998 | 0.85 | 0.04 | 0.04 | | 35.94 | 6.12 | 24.98 | 0.000 | 0.561 |
| 4/30/1998 | 0.92 | 0.06 | 0.07 | | 35.97 | 6.12 | 24.98 | 0.000 | 0.560 |
| 5/31/1998 | 0.90 | 0.05 | 0.06 | | 36.00 | 6.12 | 24.98 | 0.000 | 0.560 |
| 6/30/1998 | 1.32 | 0.08 | 0.06 | | 36.04 | 6.13 | 24.98 | 0.000 | 0.559 |
| 7/31/1998 | 1.38 | 0.09 | 0.07 | | 36.08 | 6.13 | 24.98 | 0.000 | 0.559 |
| 8/31/1998 | 1.25 | 0.06 | 0.05 | | 36.12 | 6.13 | 24.98 | 0.000 | 0.558 |
| 9/30/1998 | 1.21 | 0.07 | 0.06 | | 36.16 | 6.13 | 24.98 | 0.000 | 0.558 |
| 10/31/1998 | 1.20 | 0.08 | 0.07 | | 36.19 | 6.14 | 24.98 | 0.000 | 0.557 |
| 11/30/1998 | 1.17 | 0.08 | 0.07 | | 36.23 | 6.14 | 24.98 | 0.000 | 0.557 |
| 12/31/1998 | 0.83 | 0.04 | 0.05 | | 36.25 | 6.14 | 24.98 | 0.000 | 0.556 |
| 1/31/1999 | 0.88 | 0.07 | 0.08 | | 36.28 | 6.14 | 24.98 | 0.000 | 0.556 |
| 2/28/1999 | 0.91 | 0.06 | 0.07 | | 36.31 | 6.14 | 24.98 | 0.000 | 0.555 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 3/31/1999 | 0.87 | 0.05 | 0.06 | | 36.33 | 6.14 | 24.98 | 0.000 | 0.555 |
| 4/30/1999 | 1.66 | 0.08 | 0.05 | | 36.38 | 6.15 | 24.98 | 0.000 | 0.554 |
| 5/31/1999 | 1.33 | 0.09 | 0.07 | | 36.42 | 6.15 | 24.98 | 0.000 | 0.554 |
| 6/30/1999 | 1.20 | 0.10 | 0.08 | | 36.46 | 6.15 | 24.98 | 0.000 | 0.553 |
| 7/31/1999 | 1.29 | 0.09 | 0.07 | | 36.50 | 6.16 | 24.98 | 0.000 | 0.553 |
| 8/31/1999 | 1.09 | 0.06 | 0.06 | | 36.53 | 6.16 | 24.98 | 0.000 | 0.552 |
| 9/30/1999 | 1.13 | 0.13 | 0.12 | | 36.57 | 6.16 | 24.98 | 0.000 | 0.552 |
| 10/31/1999 | 1.14 | 0.07 | 0.06 | | 36.60 | 6.16 | 24.98 | 0.000 | 0.551 |
| 11/30/1999 | 1.08 | 0.10 | 0.10 | | 36.64 | 6.17 | 24.98 | 0.000 | 0.551 |
| 12/31/1999 | 1.06 | 0.14 | 0.13 | | 36.67 | 6.17 | 24.98 | 0.000 | 0.550 |
| 1/31/2000 | 1.12 | 0.10 | 0.09 | | 36.70 | 6.17 | 24.98 | 0.000 | 0.550 |
| 2/29/2000 | 1.10 | 0.07 | 0.07 | | 36.73 | 6.18 | 24.98 | 0.000 | 0.549 |
| 3/31/2000 | 1.00 | 0.05 | 0.05 | | 36.77 | 6.18 | 24.98 | 0.000 | 0.549 |
| 4/30/2000 | 1.06 | 0.11 | 0.10 | | 36.80 | 6.18 | 24.98 | 0.000 | 0.549 |
| 5/31/2000 | 0.97 | 0.06 | 0.07 | | 36.83 | 6.18 | 24.98 | 0.000 | 0.548 |
| 6/30/2000 | 0.93 | 0.07 | 0.08 | | 36.86 | 6.19 | 24.98 | 0.000 | 0.548 |
| 7/31/2000 | 1.09 | 0.09 | 0.08 | | 36.89 | 6.19 | 24.98 | 0.000 | 0.547 |
| 8/31/2000 | 1.09 | 0.08 | 0.08 | | 36.92 | 6.19 | 24.98 | 0.000 | 0.547 |
| 9/30/2000 | 0.92 | 0.07 | 0.07 | | 36.95 | 6.19 | 24.98 | 0.000 | 0.546 |
| 10/31/2000 | 1.00 | 0.07 | 0.07 | | 36.98 | 6.19 | 24.98 | 0.000 | 0.546 |
| 11/30/2000 | 1.11 | 0.10 | 0.09 | | 37.02 | 6.20 | 24.98 | 0.000 | 0.546 |
| 12/31/2000 | 1.19 | 0.07 | 0.06 | | 37.05 | 6.20 | 24.98 | 0.000 | 0.545 |
| 1/31/2001 | 1.10 | 0.09 | 0.08 | | 37.09 | 6.20 | 24.98 | 0.000 | 0.545 |
| 2/28/2001 | 1.11 | 0.08 | 0.07 | | 37.12 | 6.20 | 24.98 | 0.000 | 0.544 |
| 3/31/2001 | 1.12 | 0.07 | 0.06 | | 37.15 | 6.21 | 24.98 | 0.000 | 0.544 |
| 4/30/2001 | 1.12 | 0.07 | 0.06 | | 37.19 | 6.21 | 24.98 | 0.000 | 0.543 |
| 5/31/2001 | 0.81 | 0.09 | 0.12 | | 37.21 | 6.21 | 24.98 | 0.000 | 0.543 |
| 6/30/2001 | 0.63 | 0.07 | 0.11 | | 37.23 | 6.21 | 24.98 | 0.000 | 0.543 |
| 7/31/2001 | 0.69 | 0.06 | 0.08 | | 37.25 | 6.22 | 24.98 | 0.000 | 0.542 |
| 8/31/2001 | 0.65 | 0.06 | 0.09 | | 37.27 | 6.22 | 24.98 | 0.000 | 0.542 |
| 9/30/2001 | 0.62 | 0.07 | 0.11 | | 37.29 | 6.22 | 24.98 | 0.000 | 0.542 |
| 10/31/2001 | 0.64 | 0.06 | 0.09 | | 37.31 | 6.22 | 24.98 | 0.000 | 0.542 |
| 11/30/2001 | 0.76 | 0.05 | 0.07 | | 37.33 | 6.22 | 24.98 | 0.000 | 0.541 |
| 12/31/2001 | 0.70 | 0.05 | 0.06 | | 37.35 | 6.22 | 24.98 | 0.000 | 0.541 |
| 1/31/2002 | 0.67 | 0.05 | 0.07 | | 37.37 | 6.23 | 24.98 | 0.000 | 0.541 |
| 2/28/2002 | 0.63 | 0.05 | 0.07 | | 37.39 | 6.23 | 24.98 | 0.000 | 0.541 |
| 3/31/2002 | 0.61 | 0.04 | 0.07 | | 37.41 | 6.23 | 24.98 | 0.000 | 0.540 |
| 4/30/2002 | 0.61 | 0.04 | 0.07 | | 37.43 | 6.23 | 24.98 | 0.000 | 0.540 |
| 5/31/2002 | 0.78 | 0.08 | 0.10 | | 37.45 | 6.23 | 24.98 | 0.000 | 0.540 |
| 6/30/2002 | 0.92 | 0.19 | 0.20 | | 37.48 | 6.24 | 24.98 | 0.000 | 0.539 |
| 7/31/2002 | 0.94 | 0.11 | 0.12 | | 37.51 | 6.24 | 24.98 | 0.000 | 0.539 |
| 8/31/2002 | 0.70 | 0.05 | 0.07 | | 37.53 | 6.24 | 24.98 | 0.000 | 0.539 |
| 9/30/2002 | 0.69 | 0.05 | 0.07 | | 37.55 | 6.24 | 24.98 | 0.000 | 0.538 |
| 10/31/2002 | 0.49 | 0.04 | 0.07 | | 37.57 | 6.25 | 24.98 | 0.000 | 0.538 |
| 11/30/2002 | 0.67 | 0.05 | 0.08 | | 37.59 | 6.25 | 24.98 | 0.000 | 0.538 |
| 12/31/2002 | 0.73 | 0.05 | 0.08 | | 37.61 | 6.25 | 24.98 | 0.000 | 0.538 |
| 1/31/2003 | 0.69 | 0.05 | 0.08 | | 37.63 | 6.25 | 24.98 | 0.000 | 0.537 |
| 2/28/2003 | 0.61 | 0.05 | 0.09 | | 37.65 | 6.25 | 24.98 | 0.000 | 0.537 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 3/31/2003 | 0.63 | 0.05 | 0.08 | | 37.67 | 6.25 | 24.98 | 0.000 | 0.537 |
| 4/30/2003 | 0.64 | 0.05 | 0.08 | | 37.69 | 6.25 | 24.98 | 0.000 | 0.537 |
| 5/31/2003 | 0.65 | 0.05 | 0.08 | | 37.71 | 6.26 | 24.98 | 0.000 | 0.536 |
| 6/30/2003 | 0.68 | 0.05 | 0.07 | | 37.73 | 6.26 | 24.98 | 0.000 | 0.536 |
| 7/31/2003 | 0.65 | 0.05 | 0.08 | | 37.75 | 6.26 | 24.98 | 0.000 | 0.536 |
| 8/31/2003 | 0.63 | 0.05 | 0.08 | | 37.77 | 6.26 | 24.98 | 0.000 | 0.535 |
| 9/30/2003 | 0.56 | 0.05 | 0.09 | | 37.79 | 6.26 | 24.98 | 0.000 | 0.535 |
| 10/31/2003 | 0.59 | 0.05 | 0.09 | | 37.80 | 6.26 | 24.98 | 0.000 | 0.535 |
| 11/30/2003 | 0.61 | 0.06 | 0.09 | | 37.82 | 6.27 | 24.98 | 0.000 | 0.535 |
| 12/31/2003 | 0.61 | 0.05 | 0.09 | | 37.84 | 6.27 | 24.98 | 0.000 | 0.534 |
| 1/31/2004 | 0.57 | 0.05 | 0.10 | | 37.86 | 6.27 | 24.98 | 0.000 | 0.534 |
| 2/29/2004 | 0.57 | 0.06 | 0.10 | | 37.87 | 6.27 | 24.98 | 0.000 | 0.534 |
| 3/31/2004 | 0.55 | 0.05 | 0.09 | | 37.89 | 6.27 | 24.98 | 0.000 | 0.534 |
| 4/30/2004 | 0.58 | 0.05 | 0.09 | | 37.91 | 6.27 | 24.98 | 0.000 | 0.534 |
| 5/31/2004 | 0.60 | 0.05 | 0.09 | | 37.93 | 6.28 | 24.98 | 0.000 | 0.533 |
| 6/30/2004 | 0.65 | 0.06 | 0.09 | | 37.95 | 6.28 | 24.98 | 0.000 | 0.533 |
| 7/31/2004 | 0.62 | 0.05 | 0.08 | | 37.97 | 6.28 | 24.98 | 0.000 | 0.533 |
| 8/31/2004 | 0.59 | 0.05 | 0.09 | | 37.98 | 6.28 | 24.98 | 0.000 | 0.533 |
| 9/30/2004 | 0.58 | 0.04 | 0.07 | | 38.00 | 6.28 | 24.98 | 0.000 | 0.532 |
| 10/31/2004 | 0.74 | 0.06 | 0.08 | | 38.02 | 6.28 | 24.98 | 0.000 | 0.532 |
| 11/30/2004 | 0.72 | 0.05 | 0.07 | | 38.05 | 6.29 | 24.98 | 0.000 | 0.532 |
| 12/31/2004 | 0.68 | 0.05 | 0.08 | | 38.07 | 6.29 | 24.98 | 0.000 | 0.532 |
| 1/31/2005 | 0.54 | 0.04 | 0.08 | | 38.08 | 6.29 | 24.98 | 0.000 | 0.531 |
| 2/28/2005 | 0.59 | 0.05 | 0.08 | | 38.10 | 6.29 | 24.98 | 0.000 | 0.531 |
| 3/31/2005 | 0.56 | 0.04 | 0.07 | | 38.12 | 6.29 | 24.98 | 0.000 | 0.531 |
| 4/30/2005 | 0.61 | 0.04 | 0.07 | | 38.14 | 6.29 | 24.98 | 0.000 | 0.531 |
| 5/31/2005 | 0.58 | 0.04 | 0.07 | | 38.15 | 6.29 | 24.98 | 0.000 | 0.530 |
| 6/30/2005 | 0.60 | 0.04 | 0.07 | | 38.17 | 6.29 | 24.98 | 0.000 | 0.530 |
| 7/31/2005 | 0.60 | 0.04 | 0.07 | | 38.19 | 6.30 | 24.98 | 0.000 | 0.530 |
| 8/31/2005 | 0.65 | 0.04 | 0.06 | | 38.21 | 6.30 | 24.98 | 0.000 | 0.530 |
| 9/30/2005 | 0.63 | 0.04 | 0.07 | | 38.23 | 6.30 | 24.98 | 0.000 | 0.529 |
| 10/31/2005 | 0.61 | 0.04 | 0.06 | | 38.25 | 6.30 | 24.98 | 0.000 | 0.529 |
| 11/30/2005 | 0.63 | 0.04 | 0.06 | | 38.27 | 6.30 | 24.98 | 0.000 | 0.529 |
| 12/31/2005 | 0.64 | 0.04 | 0.07 | | 38.29 | 6.30 | 24.98 | 0.000 | 0.529 |
| 1/31/2006 | 0.71 | 0.04 | 0.06 | | 38.31 | 6.30 | 24.98 | 0.000 | 0.528 |
| 2/28/2006 | 0.61 | 0.04 | 0.06 | | 38.33 | 6.30 | 24.98 | 0.000 | 0.528 |
| 3/31/2006 | 0.57 | 0.04 | 0.07 | | 38.34 | 6.31 | 24.98 | 0.000 | 0.528 |
| 4/30/2006 | 0.56 | 0.04 | 0.07 | | 38.36 | 6.31 | 24.98 | 0.000 | 0.528 |
| 5/31/2006 | 0.56 | 0.05 | 0.08 | | 38.38 | 6.31 | 24.98 | 0.000 | 0.528 |
| 6/30/2006 | 0.63 | 0.05 | 0.08 | | 38.40 | 6.31 | 24.98 | 0.000 | 0.527 |
| 7/31/2006 | 0.58 | 0.05 | 0.08 | | 38.41 | 6.31 | 24.98 | 0.000 | 0.527 |
| 8/31/2006 | 0.62 | 0.05 | 0.08 | | 38.43 | 6.31 | 24.98 | 0.000 | 0.527 |
| 9/30/2006 | 0.64 | 0.05 | 0.07 | | 38.45 | 6.31 | 24.98 | 0.000 | 0.527 |
| 10/31/2006 | 0.61 | 0.05 | 0.09 | | 38.47 | 6.32 | 24.98 | 0.000 | 0.526 |
| 11/30/2006 | 0.67 | 0.05 | 0.07 | | 38.49 | 6.32 | 24.98 | 0.000 | 0.526 |
| 12/31/2006 | 0.62 | 0.04 | 0.06 | | 38.51 | 6.32 | 24.98 | 0.000 | 0.526 |
| 1/31/2007 | 0.61 | 0.05 | 0.08 | | 38.53 | 6.32 | 24.98 | 0.000 | 0.526 |
| 2/28/2007 | 0.59 | 0.05 | 0.08 | | 38.55 | 6.32 | 24.98 | 0.000 | 0.525 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 3/31/2007 | 0.59 | 0.04 | 0.06 | | 38.57 | 6.32 | 24.98 | 0.000 | 0.525 |
| 4/30/2007 | 0.56 | 0.05 | 0.08 | | 38.58 | 6.32 | 24.98 | 0.000 | 0.525 |
| 5/31/2007 | 0.53 | 0.05 | 0.10 | | 38.60 | 6.33 | 24.98 | 0.000 | 0.525 |
| 6/30/2007 | 0.60 | 0.05 | 0.09 | | 38.62 | 6.33 | 24.98 | 0.000 | 0.525 |
| 7/31/2007 | 0.53 | 0.07 | 0.13 | | 38.63 | 6.33 | 24.98 | 0.000 | 0.524 |
| 8/31/2007 | 0.58 | 0.08 | 0.15 | | 38.65 | 6.33 | 24.98 | 0.000 | 0.524 |
| 9/30/2007 | 0.50 | 0.08 | 0.16 | | 38.67 | 6.33 | 24.98 | 0.000 | 0.524 |
| 10/31/2007 | 0.54 | 0.10 | 0.19 | | 38.68 | 6.34 | 24.98 | 0.000 | 0.524 |
| 11/30/2007 | 0.56 | 0.10 | 0.18 | | 38.70 | 6.34 | 24.98 | 0.000 | 0.523 |
| 12/31/2007 | 0.56 | 0.10 | 0.18 | | 38.72 | 6.34 | 24.98 | 0.000 | 0.523 |
| 1/31/2008 | 0.55 | 0.10 | 0.17 | | 38.73 | 6.35 | 24.98 | 0.000 | 0.523 |
| 2/29/2008 | 0.58 | 0.10 | 0.17 | | 38.75 | 6.35 | 24.98 | 0.000 | 0.523 |
| 3/31/2008 | 0.58 | 0.10 | 0.17 | | 38.77 | 6.35 | 24.98 | 0.000 | 0.522 |
| 4/30/2008 | 0.67 | 0.04 | 0.06 | | 38.79 | 6.35 | 24.98 | 0.000 | 0.522 |
| 5/31/2008 | 0.69 | 0.02 | 0.03 | | 38.81 | 6.35 | 24.98 | 0.000 | 0.522 |
| 6/30/2008 | 0.70 | 0.02 | 0.03 | | 38.83 | 6.35 | 24.98 | 0.000 | 0.522 |
| 7/31/2008 | 0.65 | 0.02 | 0.03 | | 38.85 | 6.36 | 24.98 | 0.000 | 0.521 |
| 8/31/2008 | 0.70 | 0.02 | 0.03 | | 38.87 | 6.36 | 24.98 | 0.000 | 0.521 |
| 9/30/2008 | 0.71 | 0.02 | 0.03 | | 38.89 | 6.36 | 24.98 | 0.000 | 0.521 |
| 10/31/2008 | 0.70 | 0.02 | 0.02 | | 38.92 | 6.36 | 24.98 | 0.000 | 0.521 |
| 11/30/2008 | 0.72 | 0.02 | 0.03 | | 38.94 | 6.36 | 24.98 | 0.000 | 0.520 |
| 12/31/2008 | 0.38 | 0.01 | 0.03 | | 38.95 | 6.36 | 24.98 | 0.000 | 0.520 |
| 1/31/2009 | 0.67 | 0.02 | 0.03 | | 38.97 | 6.36 | 24.98 | 0.000 | 0.520 |
| 2/28/2009 | 0.59 | 0.03 | 0.05 | | 38.99 | 6.36 | 24.98 | 0.000 | 0.520 |
| 3/31/2009 | 0.76 | 0.10 | 0.13 | | 39.01 | 6.36 | 24.98 | 0.000 | 0.520 |
| 4/30/2009 | 0.77 | 0.11 | 0.14 | | 39.03 | 6.37 | 24.98 | 0.000 | 0.519 |
| 5/31/2009 | 0.65 | 0.10 | 0.15 | | 39.05 | 6.37 | 24.98 | 0.000 | 0.519 |
| 7/31/2009 | 1.06 | 0.20 | 0.18 | | 39.09 | 6.38 | 24.98 | 0.000 | 0.519 |
| 8/31/2009 | 1.15 | 0.21 | 0.18 | | 39.12 | 6.38 | 24.98 | 0.000 | 0.518 |
| 9/30/2009 | 1.16 | 0.21 | 0.18 | | 39.16 | 6.39 | 24.98 | 0.000 | 0.518 |
| 10/31/2009 | 1.08 | 0.18 | 0.17 | | 39.19 | 6.39 | 24.98 | 0.000 | 0.517 |
| 11/30/2009 | 1.01 | 0.18 | 0.18 | | 39.22 | 6.40 | 24.98 | 0.000 | 0.517 |
| 12/31/2009 | 1.06 | 0.18 | 0.17 | | 39.25 | 6.40 | 24.98 | 0.000 | 0.516 |
| 1/31/2010 | 0.98 | 0.17 | 0.18 | | 39.28 | 6.41 | 24.98 | 0.000 | 0.516 |
| 2/28/2010 | 1.15 | 0.21 | 0.19 | | 39.32 | 6.42 | 24.98 | 0.000 | 0.515 |
| 3/31/2010 | 1.16 | 0.23 | 0.20 | | 39.35 | 6.42 | 24.98 | 0.000 | 0.515 |
| 4/30/2010 | 1.11 | 0.28 | 0.25 | | 39.39 | 6.43 | 24.98 | 0.000 | 0.514 |
| 5/31/2010 | 0.94 | 0.27 | 0.29 | | 39.42 | 6.44 | 24.98 | 0.000 | 0.514 |
| 6/30/2010 | 0.83 | 0.25 | 0.30 | | 39.44 | 6.45 | 24.98 | 0.000 | 0.514 |
| 7/31/2010 | 0.68 | 0.19 | 0.28 | | 39.46 | 6.45 | 24.98 | 0.000 | 0.513 |
| 8/31/2010 | 1.17 | 0.29 | 0.25 | | 39.50 | 6.46 | 24.98 | 0.000 | 0.513 |
| 9/30/2010 | 1.09 | 0.28 | 0.25 | | 39.53 | 6.47 | 24.98 | 0.000 | 0.512 |
| 10/31/2010 | 1.09 | 0.28 | 0.26 | | 39.56 | 6.48 | 24.98 | 0.000 | 0.512 |
| 11/30/2010 | 1.07 | 0.27 | 0.25 | | 39.60 | 6.49 | 24.98 | 0.000 | 0.512 |
| 12/31/2010 | 1.08 | 0.34 | 0.31 | | 39.63 | 6.50 | 24.98 | 0.000 | 0.511 |
| 1/31/2011 | 1.06 | 0.29 | 0.27 | | 39.66 | 6.51 | 24.98 | 0.000 | 0.511 |
| 2/28/2011 | 1.06 | 0.29 | 0.28 | | 39.69 | 6.51 | 24.98 | 0.000 | 0.510 |
| 3/31/2011 | 1.02 | 0.33 | 0.32 | | 39.72 | 6.52 | 24.98 | 0.000 | 0.510 |

| 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 | 1.04 | 0.30 | 0.29 | | 39.76 | 6.53 | 24.98 | 0.000 | 0.509 |
| 5/31/2011 | 1.10 | 0.30 | 0.27 | | 39.79 | 6.54 | 24.98 | 0.000 | 0.509 |
| 6/30/2011 | 1.13 | 0.30 | 0.27 | | 39.82 | 6.55 | 24.98 | 0.000 | 0.508 |
| 7/31/2011 | 0.77 | 0.22 | 0.28 | | 39.85 | 6.56 | 24.98 | 0.000 | 0.508 |
| 8/31/2011 | 1.11 | 0.28 | 0.25 | | 39.88 | 6.57 | 24.98 | 0.000 | 0.508 |
| 9/30/2011 | 0.83 | 0.18 | 0.22 | | 39.91 | 6.57 | 24.98 | 0.000 | 0.507 |
| 10/31/2011 | 0.79 | 0.20 | 0.25 | | 39.93 | 6.58 | 24.98 | 0.000 | 0.507 |
| 11/30/2011 | 0.70 | 0.20 | 0.28 | | 39.95 | 6.59 | 24.98 | 0.000 | 0.507 |
| 12/31/2011 | 0.70 | 0.20 | 0.29 | | 39.97 | 6.59 | 24.98 | 0.000 | 0.506 |
| 1/31/2012 | 0.27 | 0.08 | 0.30 | | 39.98 | 6.59 | 24.98 | 0.000 | 0.506 |
| 2/29/2012 | 0.65 | 0.19 | 0.29 | | 40.00 | 6.60 | 24.98 | 0.000 | 0.506 |
| 3/31/2012 | 0.65 | 0.18 | 0.27 | | 40.02 | 6.60 | 24.98 | 0.000 | 0.506 |
| 4/30/2012 | 0.58 | 0.08 | 0.14 | | 40.04 | 6.61 | 24.98 | 0.000 | 0.505 |
| 5/31/2012 | 0.67 | 0.07 | 0.11 | | 40.06 | 6.61 | 24.98 | 0.000 | 0.505 |
| 6/30/2012 | 0.05 | 0.01 | 0.13 | | 40.06 | 6.61 | 24.98 | 0.000 | 0.505 |
| 7/31/2012 | 0.22 | 0.02 | 0.10 | | 40.07 | 6.61 | 24.98 | 0.000 | 0.505 |
| 8/31/2012 | 1.03 | 0.07 | 0.07 | | 40.10 | 6.61 | 24.98 | 0.000 | 0.505 |
| 9/30/2012 | 0.83 | 0.07 | 0.08 | | 40.12 | 6.61 | 24.98 | 0.000 | 0.504 |
| 10/31/2012 | 1.05 | 0.08 | 0.08 | | 40.16 | 6.62 | 24.98 | 0.000 | 0.504 |
| 11/30/2012 | 0.66 | 0.01 | 0.02 | | 40.18 | 6.62 | 24.98 | 0.000 | 0.504 |
| 12/31/2012 | 0.64 | 0.01 | 0.02 | | 40.20 | 6.62 | 24.98 | 0.000 | 0.504 |