

CROMER UNIT NO. 1
WATERFLOOD EOR PROJECT
ANNUAL REPORT FOR 2013

April 5, 2014

Tundra Oil and Gas Partnership

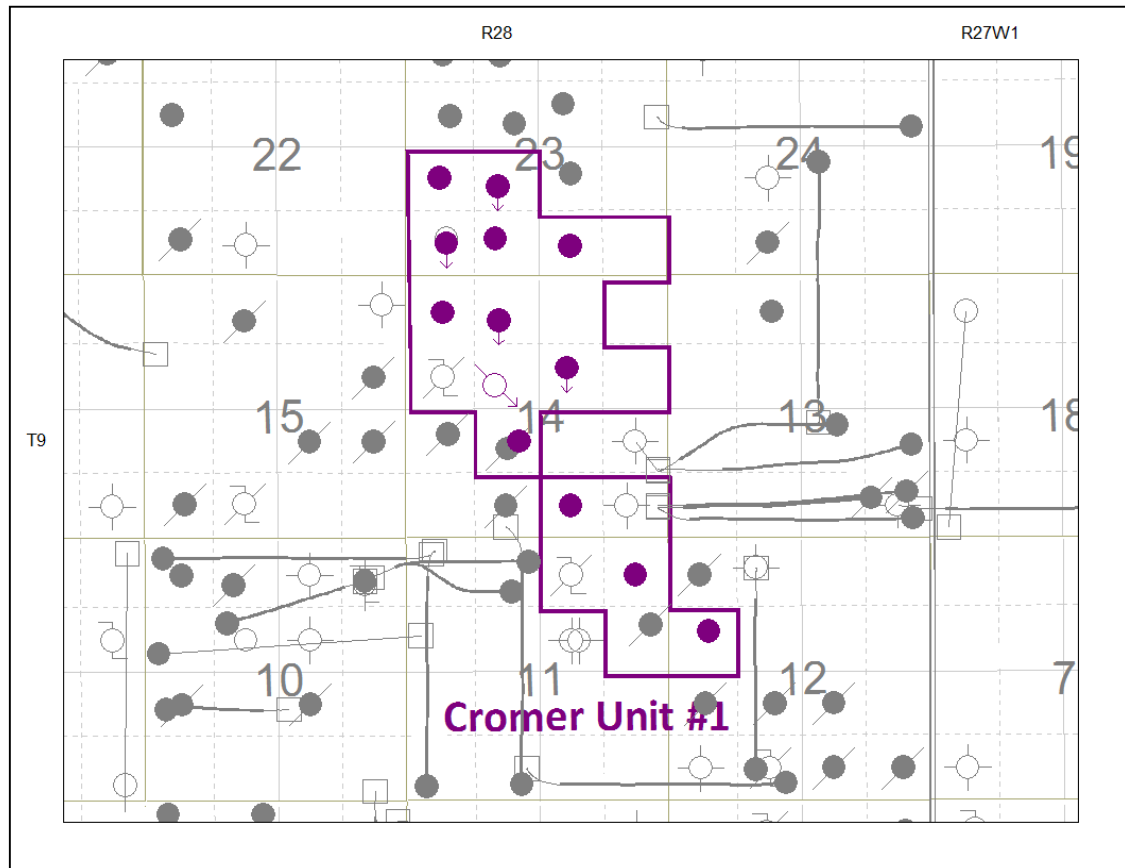
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INTRODUCTION

Cromer Unit No. 1 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Waterflood Order No. 6 effective November 1, 1998 with Tundra Oil and Gas as Operator. The EOR project area, outlined in purple in the attached Figure 1, contains 13 wells in 20 LSDs in Township 9, Range 28W1. Well list and well status is available in Appendix A.

Figure 1: Cromer Unit # 1 Area Outline



In accordance with Section 73 of the Manitoba Drilling and Production Regulation, Tundra submits the following 2013 Annual Progress Report for Cromer Unit No. 1 as required by Waterflood Order No. 6.

DISCUSSION

Production History

For the wells included in Cromer No 1, production started in July 1992 with 00/02-23-009-28W1/0. Oil production peaked at 18.87 m³/d in July of 1996. The water oil ratio (WOR) averaged 3.50 m³/m³ over 2013. In December 2013, the Unit was producing 3.9 m³/d of oil and 12.0 m³/d of water. The oil production rate, injection rate, and WOR

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

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

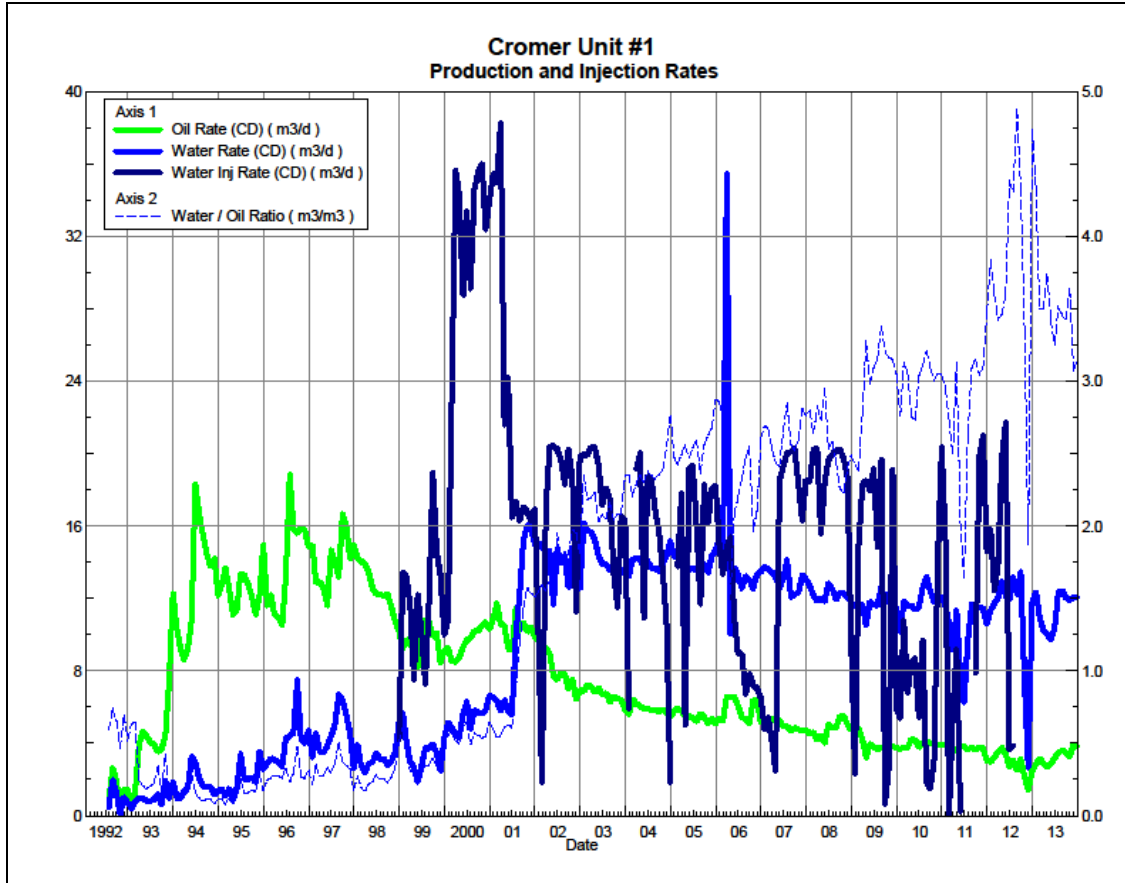
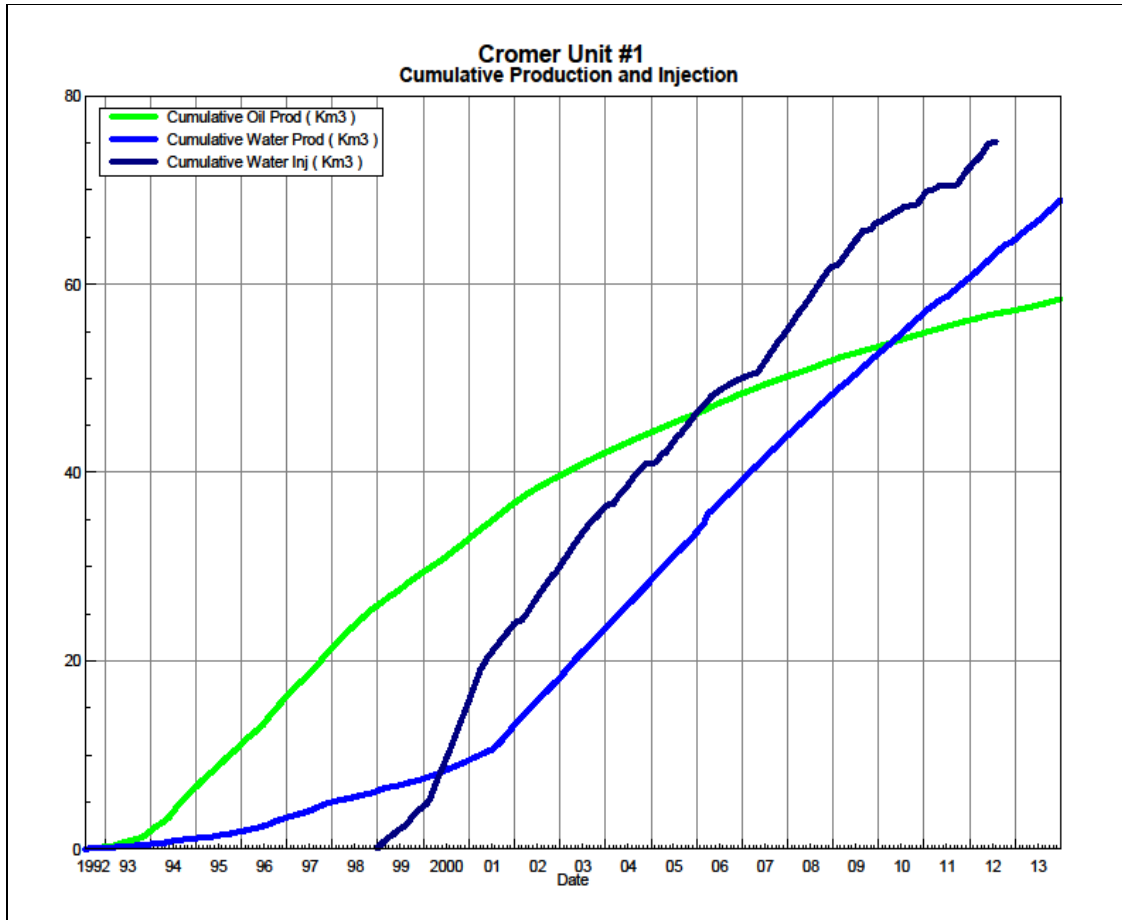


Figure 3 shows the cumulative production for Cromer Unit No. 1 to the end of December 2013 as 58.4 E³m³ of oil, and 68.9 E³m³ of water. The cumulative water injected is 75.2 E³m³. The cumulative volume of oil, and water produced and fluid injected for each injection pattern and for the whole project for each injection well is presented in Appendix D.

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



Waterflood Development Plan

Water injection started in December 1998 in the 00/11-14-009-28W1/0 injector. In July 2012, injection into the 00/11-14-009-28W1/0 well was suspended because of safety concerns associated with using old pipelines and injection infrastructure.

Tundra no longer wants to use produced water for injection in this Unit, so they are currently evaluating a new source of water. Tundra is also working on reconfiguring the waterflood in this Unit. It is anticipated that additional wells will be drilled or current wells re-configured to inject water in this Unit by 2015.

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 Cromer Unit No. 1.

Injection Wellhead Pressures

The average monthly wellhead injection pressures are summarized in Appendix B, and shows injection pressures since August 2002. Injection was suspended in Cromer Unit No. 1 in July 2012, so no wellhead injection pressures are available for 2013.

Reservoir Pressure

No reservoir pressure measurements were taken at Cromer Unit No. 1 in 2013.

Well Servicing

No maintenance was required on the 13 wells in Cromer Unit No. 1 in 2013.

Voidage Replacement

Cumulative voidage for the Cromer Unit No. 1 was 0.572 in December 2013. Calculation, plots and tables of the Voidage replacement ratio on a monthly and cumulative basis for each injection pattern and for the project area are presented in Appendix D.

Waterflood Performance Discussion

Given an OOIP of 779 E³m³, the current recovery factor is 7.5%. The ultimate expected recoverable reserve based on decline analysis is 80 E³m³ or an ultimate recovery factor of 10.3%.

The overall performance of this waterflood has been poor as indicated by the low recovery factor, and obvious lack of waterflood response in producers. This is certainly due to having only one injector where multiple injectors are required in patterns to provide the necessary areal sweep and injected water volumes.

The long term decline trends for oil and water are very stable and not expected to change. The Unit will require additional water injector wells in addition to increased fluid handling throughput in order to make this an effective waterflood.

List of Appendices

Appendix A: Well Name and Well Status

Appendix B: Injection Wellhead Pressures Plots and Table

Appendix C: Cromer Unit No. 1 Injection Pattern Summary

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

Appendix A

| UWI | Well Status |
|-----------------------|---------------------|
| 100/16-11-009-28W1/02 | Capable of OIL Prod |
| 100/12-12-009-28W1/02 | Capable of OIL Prod |
| 100/02-14-009-28W1/02 | Capable of OIL Prod |
| 102/06-14-009-28W1/02 | Commingled |
| 100/10-14-009-28W1/00 | Commingled |
| 100/11-14-009-28W1/00 | WTR Injection |
| 100/13-14-009-28W1/03 | Capable of OIL Prod |
| 100/14-14-009-28W1/00 | Commingled |
| 100/02-23-009-28W1/02 | Commingled |
| 100/03-23-009-28W1/00 | Capable of OIL Prod |
| 100/04-23-009-28W1/03 | Commingled |
| 100/05-23-009-28W1/00 | Capable of OIL Prod |
| 100/06-23-009-28W1/02 | Commingled |

Appendix B

Average Monthly Injection Pressure (kPag)

| Injection Pressure | | Injection Pressure | | Injection Pressure | | Injection Pressure | |
|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|
| Month | 100/11-14 | Month | 100/11-14 | Month | 100/11-14 | Month | 100/11-14 |
| | | Jan-05 | 11600 | Jan-08 | 12210 | Jan-11 | 11890 |
| | | Feb-05 | 9914 | Feb-08 | 12014 | Feb-11 | 10800 |
| | | Mar-05 | 10981 | Mar-08 | 12226 | Mar-11 | 10577 |
| | | Apr-05 | 11107 | Apr-08 | 12307 | Apr-11 | 10078 |
| | | May-05 | 11097 | May-08 | 12342 | May-11 | 10800 |
| | | Jun-05 | 11493 | Jun-08 | 12836 | Jun-11 | 10800 |
| | | Jul-05 | 11600 | Jul-08 | 12442 | Jul-11 | 10800 |
| Aug-02 | 1527 | Aug-05 | 11606 | Aug-08 | 12320 | Aug-11 | 10800 |
| Sep-02 | 3609 | Sep-05 | 11800 | Sep-08 | 12301 | Sep-11 | 9174 |
| Oct-02 | 10508 | Oct-05 | 11800 | Oct-08 | 12261 | Oct-11 | 9010 |
| Nov-02 | 10392 | Nov-05 | 11800 | Nov-08 | 12220 | Nov-11 | 9010 |
| Dec-02 | 10596 | Dec-05 | 11839 | Dec-08 | 6123 | Dec-11 | 10615 |
| Jan-03 | 10851 | Jan-06 | 12100 | Jan-09 | 2774 | Jan-12 | 11000 |
| Feb-03 | 10880 | Feb-06 | 12021 | Feb-09 | 9021 | Feb-12 | 11155 |
| Mar-03 | 10880 | Mar-06 | 12000 | Mar-09 | 11688 | Mar-12 | 12314 |
| Apr-03 | 11029 | Apr-06 | 12600 | Apr-09 | 11765 | Apr-12 | 16000 |
| May-03 | 11124 | May-06 | 12839 | May-09 | 11765 | May-12 | 12368 |
| Jun-03 | 11140 | Jun-06 | 12801 | Jun-09 | 11893 | Jun-12 | 11500 |
| Jul-03 | 11140 | Jul-06 | 11839 | Jul-09 | 8723 | Jul-12 | 3539 |
| Aug-03 | 11140 | Aug-06 | 3387 | Aug-09 | 11000 | Aug-12 | 0 |
| Sep-03 | 11140 | Sep-06 | 8613 | Sep-09 | 11000 | Sep-12 | 0 |
| Oct-03 | 11140 | Oct-06 | 7889 | Oct-09 | 4077 | Oct-12 | 0 |
| Nov-03 | 11146 | Nov-06 | 7507 | Nov-09 | 11182 | Nov-12 | 0 |
| Dec-03 | 11170 | Dec-06 | 6752 | Dec-09 | 3491 | Dec-12 | 0 |
| Jan-04 | 11170 | Jan-07 | 6329 | Jan-10 | 5497 | Jan-13 | 0 |
| Feb-04 | 11170 | Feb-07 | 6122 | Feb-10 | 7254 | Feb-13 | 0 |
| Mar-04 | 11170 | Mar-07 | 4821 | Mar-10 | 6348 | Mar-13 | 0 |
| Apr-04 | 11170 | Apr-07 | 0 | Apr-10 | 8417 | Apr-13 | 0 |
| May-04 | 11170 | May-07 | 4271 | May-10 | 9478 | May-13 | 0 |
| Jun-04 | 11170 | Jun-07 | 10953 | Jun-10 | 5850 | Jun-13 | 0 |
| Jul-04 | 11475 | Jul-07 | 10491 | Jul-10 | 9167 | Jul-13 | 0 |
| Aug-04 | 11800 | Aug-07 | 11394 | Aug-10 | 4987 | Aug-13 | 0 |
| Sep-04 | 11800 | Sep-07 | 11693 | Sep-10 | 6333 | Sep-13 | 0 |
| Oct-04 | 11800 | Oct-07 | 11868 | Oct-10 | 7632 | Oct-13 | 0 |
| Nov-04 | 11367 | Nov-07 | 9743 | Nov-10 | 9055 | Nov-13 | 0 |
| Dec-04 | 11600 | Dec-07 | 11535 | Dec-10 | 11466 | Dec-13 | 0 |

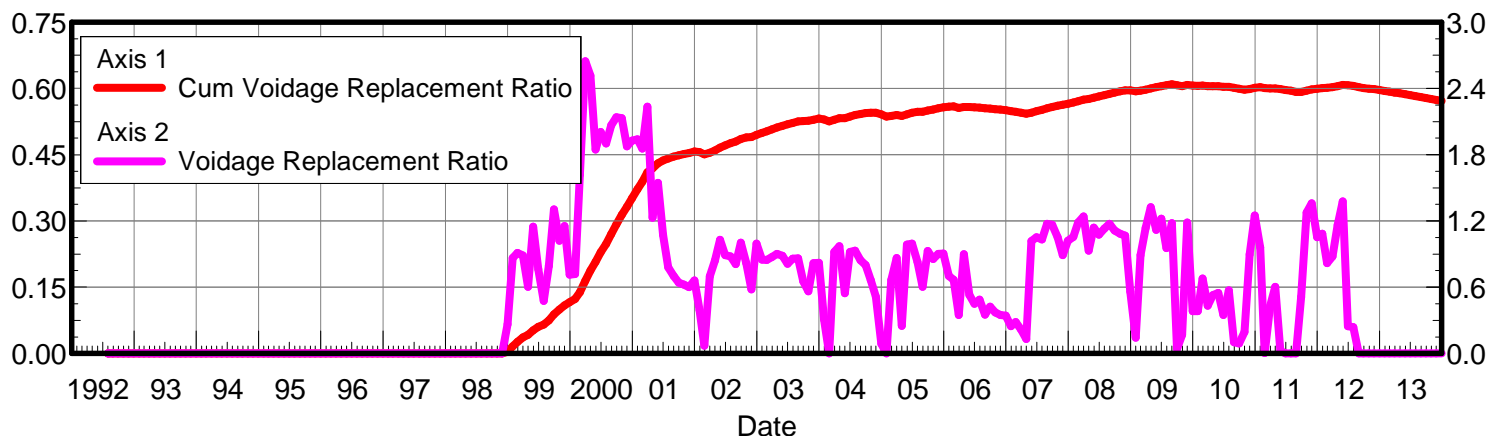
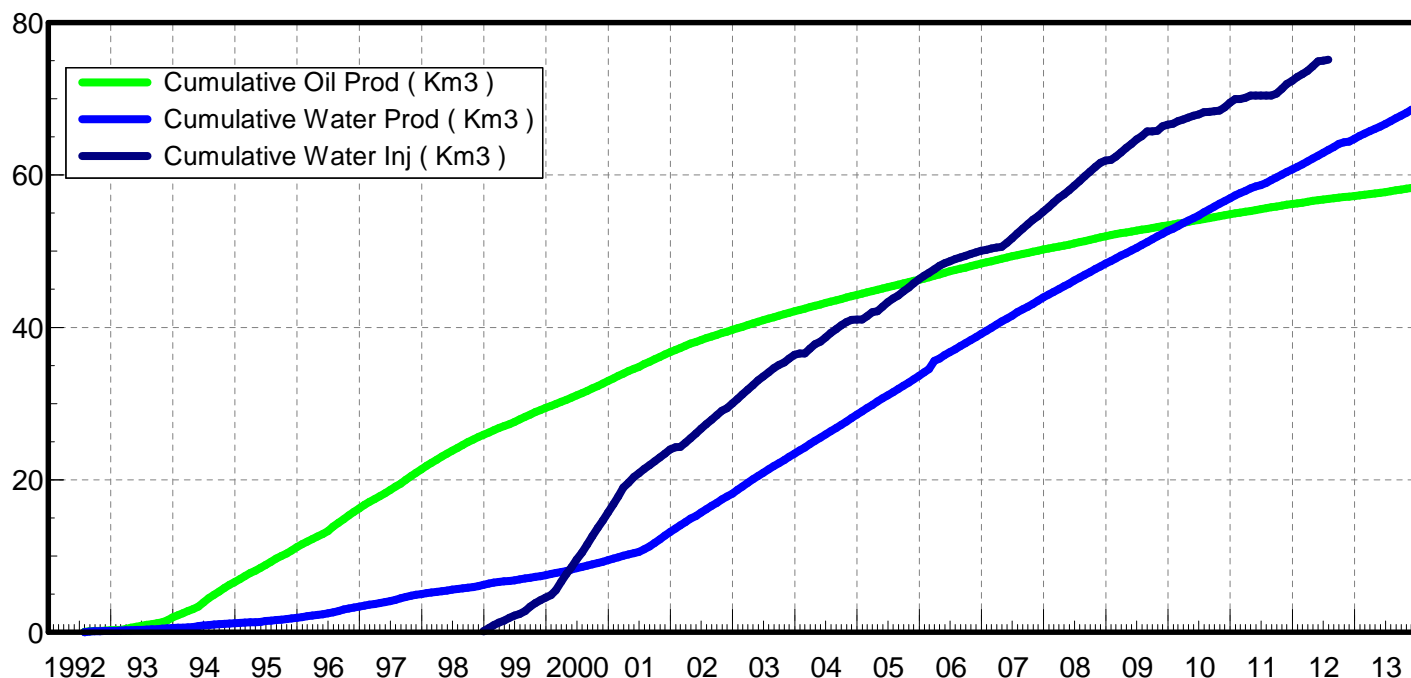
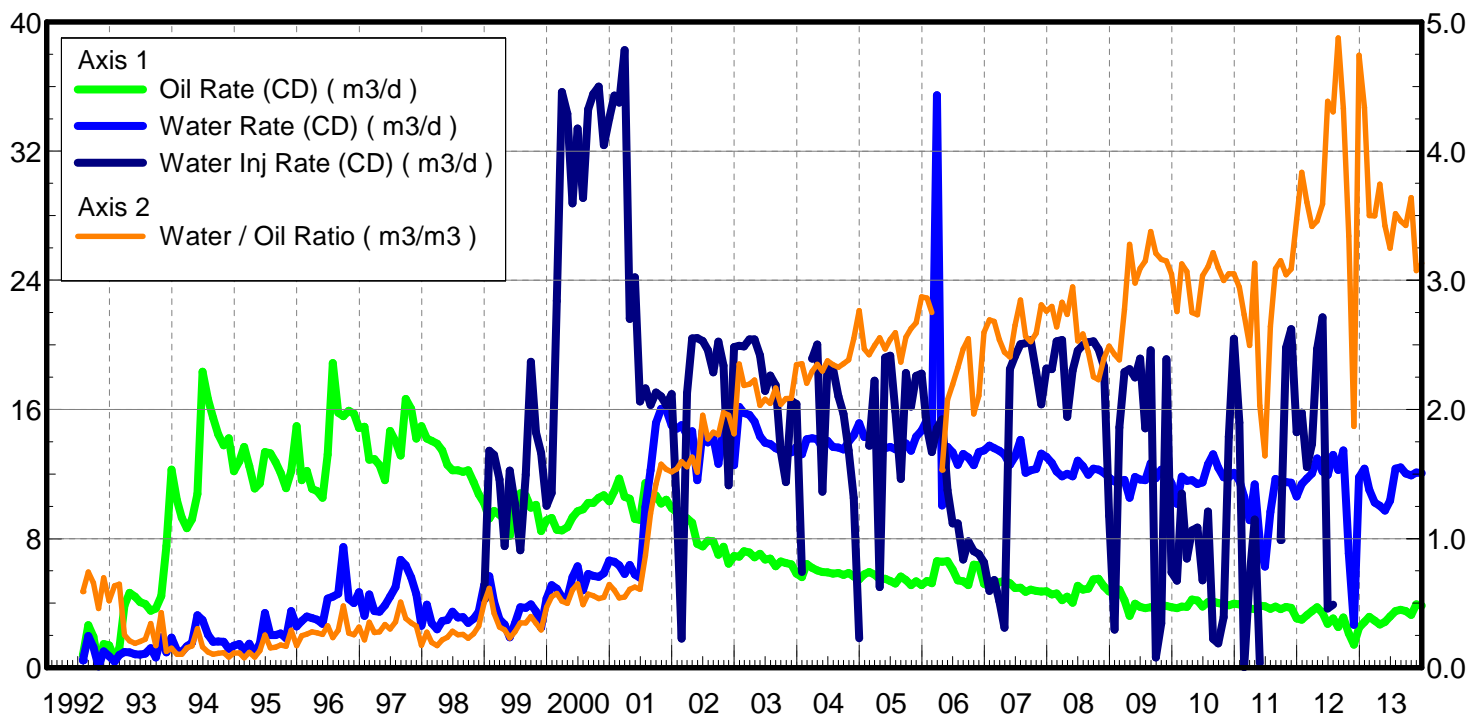
Appendix C

Cromer Unit No. 1 Pattern Summary as of December 2013

| Pattern Name | Injector Location (009-28W) | Injector Surf. Location (009-28W1) | Status | Supported Wells (009-28W1) | No. of Supported Wells | Allocation Factor | Pattern Prod Start Month | Inj Start Month | Oil Rate (m³/d) | Water Rate (m³/d) | WOR (m³/m³) | Water Injection (m³/d) | Cum Oil (E³m³) | Cum Water (E³m³) | Cum Inj Water (E³m³) | Monthly VRR | Cum VRR |
|----------------------------|--------------------------------|---------------------------------------|---------------|---|------------------------|-------------------|--------------------------|-----------------|--------------------|----------------------|----------------|---------------------------|-------------------|---------------------|-------------------------|-------------|---------|
| 00/11-14-009-28W1 Injector | 00/11-14 | Vertical Well | WTR Injection | 02-14, 02-23, 03-23, 04-23, 05-23, 06-23, 10-14, 12-12, 13-14, 14-14, 16-11, 02/06-14 | 12 | 1 | Jul 1992 | Dec 1998 | 3.9 | 12.1 | 3.13 | 0.0 | 58.4 | 68.9 | 75.2 | 0.0 | 0.57 |

Appendix D
Rates and VRR
Plots and Tables

Oil Formation Vol Factor : 1.07199 m³/m³ Pattern# 00/11-14-009-28W1Inj Set: Cromer Unit#1 Oil Rate (CD) : 3.85 m³/d
 Water Formation Vol Factor : 1.00150 m³/m³ February 25, 2014 Water Rate (CD) : 12.05 m³/d
 Water / Oil Ratio : 3.13 m³/m³ Operator: Tundra_O&G_Prtshp Water Inj Rate (CD) : 3.90 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 7/31/1992 | 0.78 | 0.46 | 0.59 | | 0.02 | 0.01 | 0.00 | 0.000 | 0.000 |
| 8/31/1992 | 2.65 | 1.96 | 0.74 | | 0.11 | 0.07 | 0.00 | 0.000 | 0.000 |
| 9/30/1992 | 1.93 | 1.27 | 0.66 | | 0.16 | 0.11 | 0.00 | 0.000 | 0.000 |
| 10/31/1992 | 0.20 | 0.09 | 0.46 | | 0.17 | 0.12 | 0.00 | 0.000 | 0.000 |
| 11/30/1992 | 1.47 | 1.02 | 0.70 | | 0.21 | 0.15 | 0.00 | 0.000 | 0.000 |
| 12/31/1992 | 1.40 | 0.73 | 0.52 | | 0.26 | 0.17 | 0.00 | 0.000 | 0.000 |
| 1/31/1993 | 0.59 | 0.37 | 0.63 | | 0.28 | 0.18 | 0.00 | 0.000 | 0.000 |
| 2/28/1993 | 1.22 | 0.79 | 0.65 | | 0.31 | 0.20 | 0.00 | 0.000 | 0.000 |
| 3/31/1993 | 3.86 | 0.98 | 0.25 | | 0.43 | 0.23 | 0.00 | 0.000 | 0.000 |
| 4/30/1993 | 4.65 | 0.96 | 0.21 | | 0.57 | 0.26 | 0.00 | 0.000 | 0.000 |
| 5/31/1993 | 4.40 | 0.83 | 0.19 | | 0.71 | 0.29 | 0.00 | 0.000 | 0.000 |
| 6/30/1993 | 4.07 | 0.82 | 0.20 | | 0.83 | 0.31 | 0.00 | 0.000 | 0.000 |
| 7/31/1993 | 3.94 | 0.87 | 0.22 | | 0.95 | 0.34 | 0.00 | 0.000 | 0.000 |
| 8/31/1993 | 3.53 | 1.21 | 0.34 | | 1.06 | 0.38 | 0.00 | 0.000 | 0.000 |
| 9/30/1993 | 3.67 | 0.63 | 0.17 | | 1.17 | 0.40 | 0.00 | 0.000 | 0.000 |
| 10/31/1993 | 4.45 | 1.89 | 0.43 | | 1.31 | 0.45 | 0.00 | 0.000 | 0.000 |
| 11/30/1993 | 7.53 | 0.96 | 0.13 | | 1.53 | 0.48 | 0.00 | 0.000 | 0.000 |
| 12/31/1993 | 12.28 | 1.86 | 0.15 | | 1.91 | 0.54 | 0.00 | 0.000 | 0.000 |
| 1/31/1994 | 10.36 | 1.07 | 0.10 | | 2.23 | 0.57 | 0.00 | 0.000 | 0.000 |
| 2/28/1994 | 9.29 | 0.97 | 0.10 | | 2.50 | 0.60 | 0.00 | 0.000 | 0.000 |
| 3/31/1994 | 8.64 | 1.32 | 0.15 | | 2.76 | 0.64 | 0.00 | 0.000 | 0.000 |
| 4/30/1994 | 9.19 | 1.55 | 0.17 | | 3.04 | 0.69 | 0.00 | 0.000 | 0.000 |
| 5/31/1994 | 10.77 | 3.25 | 0.30 | | 3.37 | 0.79 | 0.00 | 0.000 | 0.000 |
| 6/30/1994 | 18.33 | 2.96 | 0.16 | | 3.92 | 0.88 | 0.00 | 0.000 | 0.000 |
| 7/31/1994 | 16.63 | 2.04 | 0.12 | | 4.44 | 0.94 | 0.00 | 0.000 | 0.000 |
| 8/31/1994 | 15.49 | 1.60 | 0.10 | | 4.92 | 0.99 | 0.00 | 0.000 | 0.000 |
| 9/30/1994 | 14.46 | 1.62 | 0.11 | | 5.35 | 1.04 | 0.00 | 0.000 | 0.000 |
| 10/31/1994 | 13.78 | 1.60 | 0.12 | | 5.78 | 1.09 | 0.00 | 0.000 | 0.000 |
| 11/30/1994 | 14.21 | 1.17 | 0.08 | | 6.21 | 1.13 | 0.00 | 0.000 | 0.000 |
| 12/31/1994 | 12.17 | 1.38 | 0.11 | | 6.58 | 1.17 | 0.00 | 0.000 | 0.000 |
| 1/31/1995 | 12.79 | 1.47 | 0.11 | | 6.98 | 1.21 | 0.00 | 0.000 | 0.000 |
| 2/28/1995 | 13.68 | 1.07 | 0.08 | | 7.36 | 1.24 | 0.00 | 0.000 | 0.000 |
| 3/31/1995 | 12.48 | 1.49 | 0.12 | | 7.75 | 1.29 | 0.00 | 0.000 | 0.000 |
| 4/30/1995 | 11.10 | 0.91 | 0.08 | | 8.08 | 1.32 | 0.00 | 0.000 | 0.000 |
| 5/31/1995 | 11.41 | 1.51 | 0.13 | | 8.44 | 1.36 | 0.00 | 0.000 | 0.000 |
| 6/30/1995 | 13.36 | 3.39 | 0.25 | | 8.84 | 1.47 | 0.00 | 0.000 | 0.000 |
| 7/31/1995 | 13.28 | 2.03 | 0.15 | | 9.25 | 1.53 | 0.00 | 0.000 | 0.000 |
| 8/31/1995 | 12.75 | 2.02 | 0.16 | | 9.64 | 1.59 | 0.00 | 0.000 | 0.000 |
| 9/30/1995 | 12.06 | 2.12 | 0.18 | | 10.01 | 1.65 | 0.00 | 0.000 | 0.000 |
| 10/31/1995 | 11.11 | 1.84 | 0.17 | | 10.35 | 1.71 | 0.00 | 0.000 | 0.000 |
| 11/30/1995 | 12.16 | 3.52 | 0.29 | | 10.72 | 1.82 | 0.00 | 0.000 | 0.000 |
| 12/31/1995 | 14.97 | 2.56 | 0.17 | | 11.18 | 1.90 | 0.00 | 0.000 | 0.000 |
| 1/31/1996 | 11.62 | 2.89 | 0.25 | | 11.54 | 1.99 | 0.00 | 0.000 | 0.000 |
| 2/29/1996 | 12.19 | 3.17 | 0.26 | | 11.89 | 2.08 | 0.00 | 0.000 | 0.000 |
| 3/31/1996 | 11.08 | 3.07 | 0.28 | | 12.24 | 2.17 | 0.00 | 0.000 | 0.000 |
| 4/30/1996 | 10.95 | 2.97 | 0.27 | | 12.57 | 2.26 | 0.00 | 0.000 | 0.000 |
| 5/31/1996 | 10.52 | 2.73 | 0.26 | | 12.89 | 2.35 | 0.00 | 0.000 | 0.000 |
| 6/30/1996 | 13.20 | 4.28 | 0.32 | | 13.29 | 2.48 | 0.00 | 0.000 | 0.000 |

| Date | Oil Rate (CD) m3/d | Water Rate (CD) m3/d | Water Oil Ratio m3/m3 | Water Inj Rate (CD) m3/d | Cum Oil Prod Km3 | Cum Water Prod Km3 | Cum Water Inj Km3 | Voidage Replacement Ratio | Cum Voidage Replacemt Ratio |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 7/31/1996 | 18.87 | 4.40 | 0.23 | | 13.87 | 2.61 | 0.00 | 0.000 | 0.000 |
| 8/31/1996 | 15.80 | 4.59 | 0.29 | | 14.36 | 2.75 | 0.00 | 0.000 | 0.000 |
| 9/30/1996 | 15.59 | 7.47 | 0.48 | | 14.83 | 2.98 | 0.00 | 0.000 | 0.000 |
| 10/31/1996 | 15.92 | 4.27 | 0.27 | | 15.32 | 3.11 | 0.00 | 0.000 | 0.000 |
| 11/30/1996 | 15.75 | 4.01 | 0.25 | | 15.80 | 3.23 | 0.00 | 0.000 | 0.000 |
| 12/31/1996 | 14.85 | 4.69 | 0.32 | | 16.26 | 3.38 | 0.00 | 0.000 | 0.000 |
| 1/31/1997 | 14.93 | 3.22 | 0.22 | | 16.72 | 3.48 | 0.00 | 0.000 | 0.000 |
| 2/28/1997 | 12.89 | 4.54 | 0.35 | | 17.08 | 3.60 | 0.00 | 0.000 | 0.000 |
| 3/31/1997 | 12.93 | 3.52 | 0.27 | | 17.48 | 3.71 | 0.00 | 0.000 | 0.000 |
| 4/30/1997 | 12.55 | 3.47 | 0.28 | | 17.86 | 3.82 | 0.00 | 0.000 | 0.000 |
| 5/31/1997 | 11.62 | 3.88 | 0.33 | | 18.22 | 3.94 | 0.00 | 0.000 | 0.000 |
| 6/30/1997 | 14.67 | 4.39 | 0.30 | | 18.66 | 4.07 | 0.00 | 0.000 | 0.000 |
| 7/31/1997 | 14.04 | 4.99 | 0.36 | | 19.09 | 4.22 | 0.00 | 0.000 | 0.000 |
| 8/31/1997 | 13.15 | 6.69 | 0.51 | | 19.50 | 4.43 | 0.00 | 0.000 | 0.000 |
| 9/30/1997 | 16.66 | 6.35 | 0.38 | | 20.00 | 4.62 | 0.00 | 0.000 | 0.000 |
| 10/31/1997 | 16.04 | 5.58 | 0.35 | | 20.50 | 4.79 | 0.00 | 0.000 | 0.000 |
| 11/30/1997 | 14.19 | 4.56 | 0.32 | | 20.92 | 4.93 | 0.00 | 0.000 | 0.000 |
| 12/31/1997 | 14.96 | 2.61 | 0.17 | | 21.39 | 5.01 | 0.00 | 0.000 | 0.000 |
| 1/31/1998 | 14.20 | 3.90 | 0.27 | | 21.83 | 5.13 | 0.00 | 0.000 | 0.000 |
| 2/28/1998 | 14.06 | 2.76 | 0.20 | | 22.22 | 5.21 | 0.00 | 0.000 | 0.000 |
| 3/31/1998 | 13.87 | 2.39 | 0.17 | | 22.65 | 5.28 | 0.00 | 0.000 | 0.000 |
| 4/30/1998 | 13.45 | 2.89 | 0.21 | | 23.05 | 5.37 | 0.00 | 0.000 | 0.000 |
| 5/31/1998 | 12.56 | 2.96 | 0.24 | | 23.44 | 5.46 | 0.00 | 0.000 | 0.000 |
| 6/30/1998 | 12.22 | 3.47 | 0.28 | | 23.81 | 5.57 | 0.00 | 0.000 | 0.000 |
| 7/31/1998 | 12.24 | 3.12 | 0.25 | | 24.19 | 5.66 | 0.00 | 0.000 | 0.000 |
| 8/31/1998 | 12.14 | 3.14 | 0.26 | | 24.57 | 5.76 | 0.00 | 0.000 | 0.000 |
| 9/30/1998 | 12.23 | 2.79 | 0.23 | | 24.93 | 5.84 | 0.00 | 0.000 | 0.000 |
| 10/31/1998 | 11.50 | 3.03 | 0.26 | | 25.29 | 5.94 | 0.00 | 0.000 | 0.000 |
| 11/30/1998 | 10.74 | 3.48 | 0.32 | | 25.61 | 6.04 | 0.00 | 0.000 | 0.000 |
| 12/31/1998 | 10.18 | 5.12 | 0.50 | 4.25 | 25.93 | 6.20 | 0.13 | 0.266 | 0.004 |
| 1/31/1999 | 9.24 | 5.68 | 0.61 | 13.43 | 26.21 | 6.38 | 0.55 | 0.863 | 0.016 |
| 2/28/1999 | 9.72 | 4.09 | 0.42 | 13.18 | 26.49 | 6.49 | 0.92 | 0.910 | 0.026 |
| 3/31/1999 | 9.47 | 2.99 | 0.32 | 11.65 | 26.78 | 6.58 | 1.28 | 0.888 | 0.036 |
| 4/30/1999 | 9.18 | 2.68 | 0.29 | 7.54 | 27.06 | 6.66 | 1.50 | 0.603 | 0.042 |
| 5/31/1999 | 8.18 | 1.88 | 0.23 | 12.20 | 27.31 | 6.72 | 1.88 | 1.149 | 0.052 |
| 6/30/1999 | 9.87 | 2.75 | 0.28 | 10.16 | 27.60 | 6.81 | 2.19 | 0.764 | 0.060 |
| 7/31/1999 | 10.81 | 3.75 | 0.35 | 7.27 | 27.94 | 6.92 | 2.41 | 0.475 | 0.066 |
| 8/31/1999 | 10.67 | 3.72 | 0.35 | 11.95 | 28.27 | 7.04 | 2.78 | 0.790 | 0.075 |
| 9/30/1999 | 9.91 | 3.93 | 0.40 | 18.96 | 28.57 | 7.15 | 3.35 | 1.305 | 0.089 |
| 10/31/1999 | 10.09 | 3.48 | 0.35 | 14.57 | 28.88 | 7.26 | 3.80 | 1.021 | 0.100 |
| 11/30/1999 | 8.47 | 2.48 | 0.29 | 13.30 | 29.14 | 7.34 | 4.20 | 1.153 | 0.109 |
| 12/31/1999 | 9.14 | 4.28 | 0.47 | 10.02 | 29.42 | 7.47 | 4.51 | 0.713 | 0.116 |
| 1/31/2000 | 9.27 | 5.11 | 0.55 | 10.83 | 29.71 | 7.63 | 4.85 | 0.721 | 0.123 |
| 2/29/2000 | 8.54 | 4.90 | 0.57 | 22.71 | 29.95 | 7.77 | 5.51 | 1.618 | 0.138 |
| 3/31/2000 | 8.51 | 4.38 | 0.52 | 35.65 | 30.22 | 7.91 | 6.61 | 2.645 | 0.164 |
| 4/30/2000 | 8.70 | 4.33 | 0.50 | 34.32 | 30.48 | 8.04 | 7.64 | 2.517 | 0.188 |
| 5/31/2000 | 9.32 | 5.62 | 0.60 | 28.76 | 30.77 | 8.21 | 8.54 | 1.845 | 0.208 |
| 6/30/2000 | 9.69 | 6.29 | 0.65 | 33.40 | 31.06 | 8.40 | 9.54 | 2.005 | 0.229 |

| 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 | 9.82 | 4.80 | 0.49 | 29.10 | 31.36 | 8.55 | 10.44 | 1.901 | 0.248 |
| 8/31/2000 | 10.21 | 5.81 | 0.57 | 34.59 | 31.68 | 8.73 | 11.51 | 2.067 | 0.270 |
| 9/30/2000 | 10.22 | 5.69 | 0.56 | 35.53 | 31.99 | 8.90 | 12.58 | 2.138 | 0.292 |
| 10/31/2000 | 10.52 | 5.63 | 0.54 | 35.99 | 32.31 | 9.07 | 13.69 | 2.131 | 0.314 |
| 11/30/2000 | 10.69 | 5.84 | 0.55 | 32.37 | 32.63 | 9.25 | 14.66 | 1.875 | 0.332 |
| 12/31/2000 | 10.30 | 6.64 | 0.64 | 34.03 | 32.95 | 9.45 | 15.72 | 1.927 | 0.352 |
| 1/31/2001 | 10.94 | 6.56 | 0.60 | 35.44 | 33.29 | 9.66 | 16.82 | 1.940 | 0.372 |
| 2/28/2001 | 11.71 | 6.34 | 0.54 | 35.00 | 33.62 | 9.84 | 17.80 | 1.856 | 0.389 |
| 3/31/2001 | 10.58 | 5.80 | 0.55 | 38.25 | 33.95 | 10.02 | 18.98 | 2.235 | 0.410 |
| 4/30/2001 | 10.47 | 6.36 | 0.61 | 21.60 | 34.26 | 10.21 | 19.63 | 1.230 | 0.419 |
| 5/31/2001 | 9.23 | 5.77 | 0.63 | 24.18 | 34.55 | 10.39 | 20.38 | 1.546 | 0.431 |
| 6/30/2001 | 9.16 | 5.57 | 0.61 | 16.49 | 34.82 | 10.55 | 20.88 | 1.072 | 0.437 |
| 7/31/2001 | 11.44 | 9.96 | 0.87 | 17.31 | 35.18 | 10.86 | 21.41 | 0.780 | 0.442 |
| 8/31/2001 | 10.25 | 12.24 | 1.19 | 16.28 | 35.49 | 11.24 | 21.92 | 0.702 | 0.445 |
| 9/30/2001 | 10.67 | 15.17 | 1.42 | 17.04 | 35.81 | 11.70 | 22.43 | 0.641 | 0.449 |
| 10/31/2001 | 10.18 | 16.04 | 1.58 | 16.81 | 36.13 | 12.19 | 22.95 | 0.624 | 0.451 |
| 11/30/2001 | 10.40 | 15.97 | 1.54 | 16.28 | 36.44 | 12.67 | 23.44 | 0.601 | 0.454 |
| 12/31/2001 | 9.89 | 15.00 | 1.52 | 16.95 | 36.75 | 13.14 | 23.96 | 0.663 | 0.457 |
| 1/31/2002 | 9.62 | 14.81 | 1.54 | 9.85 | 37.05 | 13.60 | 24.27 | 0.392 | 0.456 |
| 2/28/2002 | 9.42 | 15.03 | 1.60 | 1.80 | 37.31 | 14.02 | 24.32 | 0.072 | 0.451 |
| 3/31/2002 | 9.25 | 14.41 | 1.56 | 17.01 | 37.60 | 14.46 | 24.85 | 0.700 | 0.454 |
| 4/30/2002 | 8.98 | 14.64 | 1.63 | 20.40 | 37.87 | 14.90 | 25.46 | 0.842 | 0.460 |
| 5/31/2002 | 7.68 | 11.63 | 1.51 | 20.42 | 38.10 | 15.26 | 26.09 | 1.029 | 0.466 |
| 6/30/2002 | 7.52 | 14.70 | 1.95 | 20.25 | 38.33 | 15.70 | 26.70 | 0.890 | 0.471 |
| 7/31/2002 | 7.87 | 13.95 | 1.77 | 19.68 | 38.57 | 16.14 | 27.31 | 0.880 | 0.476 |
| 8/31/2002 | 7.83 | 14.28 | 1.82 | 18.30 | 38.82 | 16.58 | 27.88 | 0.808 | 0.480 |
| 9/30/2002 | 7.00 | 12.63 | 1.80 | 20.21 | 39.03 | 16.96 | 28.48 | 1.005 | 0.485 |
| 10/31/2002 | 7.50 | 14.82 | 1.97 | 18.71 | 39.26 | 17.42 | 29.06 | 0.819 | 0.489 |
| 11/30/2002 | 6.44 | 12.59 | 1.95 | 11.29 | 39.45 | 17.79 | 29.40 | 0.580 | 0.490 |
| 12/31/2002 | 6.93 | 12.55 | 1.81 | 19.85 | 39.67 | 18.18 | 30.02 | 0.995 | 0.495 |
| 1/31/2003 | 6.87 | 16.15 | 2.35 | 19.94 | 39.88 | 18.68 | 30.63 | 0.849 | 0.499 |
| 2/28/2003 | 7.22 | 15.78 | 2.18 | 19.90 | 40.08 | 19.13 | 31.19 | 0.847 | 0.503 |
| 3/31/2003 | 7.13 | 15.65 | 2.20 | 20.33 | 40.30 | 19.61 | 31.82 | 0.873 | 0.507 |
| 4/30/2003 | 6.85 | 15.25 | 2.23 | 20.34 | 40.51 | 20.07 | 32.43 | 0.901 | 0.512 |
| 5/31/2003 | 7.06 | 14.34 | 2.03 | 19.35 | 40.73 | 20.51 | 33.03 | 0.884 | 0.516 |
| 6/30/2003 | 6.70 | 13.93 | 2.08 | 17.14 | 40.93 | 20.93 | 33.55 | 0.813 | 0.518 |
| 7/31/2003 | 6.77 | 13.85 | 2.05 | 18.09 | 41.14 | 21.36 | 34.11 | 0.858 | 0.522 |
| 8/31/2003 | 6.28 | 13.59 | 2.17 | 17.50 | 41.33 | 21.78 | 34.65 | 0.862 | 0.525 |
| 9/30/2003 | 6.59 | 13.44 | 2.04 | 13.39 | 41.53 | 22.19 | 35.05 | 0.654 | 0.526 |
| 10/31/2003 | 6.48 | 13.49 | 2.08 | 11.49 | 41.73 | 22.60 | 35.41 | 0.563 | 0.527 |
| 11/30/2003 | 6.40 | 13.35 | 2.09 | 16.53 | 41.92 | 23.00 | 35.90 | 0.819 | 0.529 |
| 12/31/2003 | 5.83 | 13.68 | 2.35 | 16.34 | 42.10 | 23.43 | 36.41 | 0.820 | 0.532 |
| 1/31/2004 | 5.61 | 13.21 | 2.35 | 5.94 | 42.28 | 23.84 | 36.59 | 0.309 | 0.530 |
| 2/29/2004 | 6.42 | 14.15 | 2.20 | | 42.46 | 24.25 | 36.59 | 0.000 | 0.525 |
| 3/31/2004 | 6.19 | 14.21 | 2.29 | 19.15 | 42.66 | 24.69 | 37.19 | 0.920 | 0.529 |
| 4/30/2004 | 6.03 | 14.16 | 2.35 | 20.02 | 42.84 | 25.11 | 37.79 | 0.972 | 0.533 |
| 5/31/2004 | 5.94 | 13.64 | 2.30 | 10.91 | 43.02 | 25.54 | 38.13 | 0.546 | 0.533 |
| 6/30/2004 | 5.92 | 14.06 | 2.38 | 18.75 | 43.20 | 25.96 | 38.69 | 0.920 | 0.536 |

| 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 | 5.83 | 13.68 | 2.35 | 18.55 | 43.38 | 26.38 | 39.26 | 0.931 | 0.540 |
| 8/31/2004 | 5.87 | 13.65 | 2.33 | 16.80 | 43.56 | 26.81 | 39.79 | 0.843 | 0.542 |
| 9/30/2004 | 5.74 | 13.51 | 2.35 | 15.71 | 43.73 | 27.21 | 40.26 | 0.799 | 0.544 |
| 10/31/2004 | 5.87 | 13.99 | 2.38 | 13.45 | 43.92 | 27.64 | 40.67 | 0.664 | 0.545 |
| 11/30/2004 | 5.65 | 14.39 | 2.55 | 10.52 | 44.09 | 28.08 | 40.99 | 0.515 | 0.545 |
| 12/31/2004 | 5.48 | 15.15 | 2.76 | 1.82 | 44.26 | 28.55 | 41.05 | 0.087 | 0.541 |
| 1/31/2005 | 5.79 | 14.29 | 2.47 | | 44.43 | 28.99 | 41.05 | 0.000 | 0.536 |
| 2/28/2005 | 5.92 | 14.35 | 2.42 | 13.76 | 44.60 | 29.39 | 41.43 | 0.665 | 0.537 |
| 3/31/2005 | 5.77 | 14.40 | 2.50 | 17.78 | 44.78 | 29.84 | 41.98 | 0.864 | 0.540 |
| 4/30/2005 | 5.49 | 14.04 | 2.56 | 5.00 | 44.94 | 30.26 | 42.13 | 0.251 | 0.538 |
| 5/31/2005 | 5.52 | 13.61 | 2.47 | 19.21 | 45.12 | 30.68 | 42.73 | 0.985 | 0.541 |
| 6/30/2005 | 5.38 | 13.68 | 2.54 | 19.33 | 45.28 | 31.09 | 43.31 | 0.994 | 0.545 |
| 7/31/2005 | 5.22 | 13.55 | 2.60 | 15.87 | 45.44 | 31.51 | 43.80 | 0.830 | 0.547 |
| 8/31/2005 | 5.64 | 13.35 | 2.37 | 11.70 | 45.61 | 31.92 | 44.16 | 0.604 | 0.547 |
| 9/30/2005 | 5.43 | 13.89 | 2.56 | 18.26 | 45.78 | 32.34 | 44.71 | 0.927 | 0.550 |
| 10/31/2005 | 5.11 | 13.43 | 2.63 | 16.18 | 45.93 | 32.76 | 45.21 | 0.856 | 0.552 |
| 11/30/2005 | 5.36 | 14.31 | 2.67 | 18.08 | 46.10 | 33.19 | 45.75 | 0.902 | 0.555 |
| 12/31/2005 | 5.11 | 14.68 | 2.87 | 18.21 | 46.25 | 33.64 | 46.32 | 0.904 | 0.557 |
| 1/31/2006 | 5.37 | 15.36 | 2.86 | 14.84 | 46.42 | 34.12 | 46.78 | 0.703 | 0.558 |
| 2/28/2006 | 5.24 | 14.42 | 2.75 | 13.35 | 46.57 | 34.52 | 47.15 | 0.667 | 0.559 |
| 3/31/2006 | 6.59 | 35.45 | 5.38 | 14.85 | 46.77 | 35.62 | 47.61 | 0.350 | 0.556 |
| 4/30/2006 | 6.57 | 10.06 | 1.53 | 15.38 | 46.97 | 35.92 | 48.07 | 0.900 | 0.558 |
| 5/31/2006 | 6.59 | 13.68 | 2.07 | 11.01 | 47.17 | 36.35 | 48.42 | 0.531 | 0.558 |
| 6/30/2006 | 6.08 | 13.35 | 2.19 | 8.94 | 47.36 | 36.75 | 48.68 | 0.450 | 0.557 |
| 7/31/2006 | 5.42 | 12.57 | 2.32 | 8.95 | 47.52 | 37.14 | 48.96 | 0.487 | 0.557 |
| 8/31/2006 | 5.36 | 13.24 | 2.47 | 6.69 | 47.69 | 37.55 | 49.17 | 0.353 | 0.555 |
| 9/30/2006 | 5.11 | 13.02 | 2.55 | 7.83 | 47.84 | 37.94 | 49.40 | 0.424 | 0.554 |
| 10/31/2006 | 6.38 | 12.54 | 1.97 | 7.21 | 48.04 | 38.33 | 49.63 | 0.372 | 0.553 |
| 11/30/2006 | 6.34 | 13.36 | 2.11 | 7.05 | 48.23 | 38.73 | 49.84 | 0.350 | 0.552 |
| 12/31/2006 | 5.19 | 13.47 | 2.60 | 6.53 | 48.39 | 39.15 | 50.04 | 0.343 | 0.551 |
| 1/31/2007 | 5.10 | 13.75 | 2.69 | 4.76 | 48.55 | 39.57 | 50.19 | 0.248 | 0.549 |
| 2/28/2007 | 5.08 | 13.60 | 2.68 | 5.44 | 48.69 | 39.95 | 50.34 | 0.286 | 0.547 |
| 3/31/2007 | 5.30 | 13.45 | 2.54 | 4.12 | 48.86 | 40.37 | 50.47 | 0.216 | 0.545 |
| 4/30/2007 | 5.40 | 13.20 | 2.44 | 2.47 | 49.02 | 40.76 | 50.54 | 0.130 | 0.542 |
| 5/31/2007 | 5.23 | 12.57 | 2.41 | 18.50 | 49.18 | 41.15 | 51.12 | 1.019 | 0.545 |
| 6/30/2007 | 4.93 | 13.08 | 2.65 | 19.30 | 49.33 | 41.55 | 51.70 | 1.051 | 0.548 |
| 7/31/2007 | 4.95 | 14.11 | 2.85 | 20.04 | 49.48 | 41.98 | 52.32 | 1.032 | 0.551 |
| 8/31/2007 | 4.71 | 12.08 | 2.56 | 20.10 | 49.63 | 42.36 | 52.94 | 1.174 | 0.555 |
| 9/30/2007 | 4.85 | 12.23 | 2.52 | 20.28 | 49.77 | 42.73 | 53.55 | 1.164 | 0.558 |
| 10/31/2007 | 4.75 | 12.32 | 2.59 | 18.31 | 49.92 | 43.11 | 54.12 | 1.052 | 0.561 |
| 11/30/2007 | 4.72 | 13.27 | 2.81 | 16.32 | 50.06 | 43.51 | 54.61 | 0.891 | 0.563 |
| 12/31/2007 | 4.74 | 13.07 | 2.76 | 18.53 | 50.21 | 43.91 | 55.18 | 1.022 | 0.565 |
| 1/31/2008 | 4.54 | 12.69 | 2.80 | 18.49 | 50.35 | 44.30 | 55.75 | 1.054 | 0.568 |
| 2/29/2008 | 4.60 | 12.15 | 2.64 | 20.22 | 50.48 | 44.66 | 56.34 | 1.185 | 0.571 |
| 3/31/2008 | 4.19 | 11.85 | 2.83 | 20.29 | 50.61 | 45.02 | 56.97 | 1.242 | 0.575 |
| 4/30/2008 | 4.39 | 12.01 | 2.73 | 15.55 | 50.75 | 45.38 | 57.43 | 0.930 | 0.576 |
| 5/31/2008 | 4.02 | 11.85 | 2.95 | 18.42 | 50.87 | 45.75 | 58.01 | 1.141 | 0.579 |
| 6/30/2008 | 5.07 | 12.83 | 2.53 | 19.65 | 51.02 | 46.14 | 58.60 | 1.076 | 0.582 |

| 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 | 4.84 | 12.49 | 2.58 | 19.98 | 51.17 | 46.52 | 59.21 | 1.131 | 0.585 |
| 8/31/2008 | 4.89 | 11.96 | 2.44 | 20.17 | 51.32 | 46.89 | 59.84 | 1.173 | 0.588 |
| 9/30/2008 | 5.47 | 12.32 | 2.25 | 20.22 | 51.49 | 47.26 | 60.45 | 1.112 | 0.591 |
| 10/31/2008 | 5.50 | 12.28 | 2.23 | 19.72 | 51.66 | 47.65 | 61.06 | 1.086 | 0.593 |
| 11/30/2008 | 5.04 | 12.07 | 2.40 | 18.65 | 51.81 | 48.01 | 61.62 | 1.068 | 0.596 |
| 12/31/2008 | 4.73 | 11.77 | 2.49 | 9.42 | 51.96 | 48.37 | 61.91 | 0.560 | 0.596 |
| 1/31/2009 | 4.76 | 11.54 | 2.43 | 2.35 | 52.10 | 48.73 | 61.98 | 0.142 | 0.593 |
| 2/28/2009 | 4.84 | 11.53 | 2.38 | 14.88 | 52.24 | 49.05 | 62.40 | 0.891 | 0.595 |
| 3/31/2009 | 4.19 | 11.63 | 2.78 | 18.33 | 52.37 | 49.41 | 62.97 | 1.138 | 0.597 |
| 4/30/2009 | 3.21 | 10.53 | 3.28 | 18.50 | 52.47 | 49.73 | 63.52 | 1.325 | 0.600 |
| 5/31/2009 | 3.96 | 11.81 | 2.98 | 17.98 | 52.59 | 50.10 | 64.08 | 1.121 | 0.603 |
| 6/30/2009 | 3.77 | 11.66 | 3.09 | 19.15 | 52.70 | 50.45 | 64.65 | 1.220 | 0.605 |
| 7/31/2009 | 3.69 | 11.61 | 3.15 | 14.83 | 52.82 | 50.81 | 65.11 | 0.953 | 0.607 |
| 8/31/2009 | 3.75 | 12.66 | 3.38 | 19.67 | 52.93 | 51.20 | 65.72 | 1.180 | 0.610 |
| 9/30/2009 | 3.66 | 11.74 | 3.21 | 0.63 | 53.04 | 51.55 | 65.74 | 0.040 | 0.607 |
| 10/31/2009 | 3.88 | 12.27 | 3.16 | 2.76 | 53.16 | 51.93 | 65.83 | 0.168 | 0.605 |
| 11/30/2009 | 3.82 | 12.04 | 3.15 | 19.12 | 53.28 | 52.29 | 66.40 | 1.185 | 0.608 |
| 12/31/2009 | 3.75 | 11.42 | 3.05 | 5.90 | 53.39 | 52.65 | 66.58 | 0.382 | 0.607 |
| 1/31/2010 | 3.68 | 10.15 | 2.76 | 5.39 | 53.51 | 52.96 | 66.75 | 0.383 | 0.606 |
| 2/28/2010 | 3.79 | 11.84 | 3.13 | 10.79 | 53.61 | 53.29 | 67.05 | 0.679 | 0.606 |
| 3/31/2010 | 3.77 | 11.58 | 3.07 | 6.76 | 53.73 | 53.65 | 67.26 | 0.433 | 0.605 |
| 4/30/2010 | 4.22 | 11.62 | 2.75 | 8.50 | 53.86 | 54.00 | 67.52 | 0.527 | 0.605 |
| 5/31/2010 | 4.16 | 11.38 | 2.73 | 8.69 | 53.99 | 54.35 | 67.79 | 0.549 | 0.605 |
| 6/30/2010 | 3.78 | 11.47 | 3.04 | 5.42 | 54.10 | 54.70 | 67.95 | 0.349 | 0.604 |
| 7/31/2010 | 4.06 | 12.61 | 3.10 | 9.68 | 54.23 | 55.09 | 68.25 | 0.571 | 0.604 |
| 8/31/2010 | 4.11 | 13.21 | 3.21 | 1.79 | 54.35 | 55.50 | 68.31 | 0.102 | 0.601 |
| 9/30/2010 | 4.00 | 12.39 | 3.10 | 1.51 | 54.47 | 55.87 | 68.35 | 0.091 | 0.599 |
| 10/31/2010 | 3.94 | 11.80 | 3.00 | 3.13 | 54.59 | 56.23 | 68.45 | 0.195 | 0.597 |
| 11/30/2010 | 3.87 | 11.80 | 3.05 | 14.29 | 54.71 | 56.59 | 68.88 | 0.897 | 0.598 |
| 12/31/2010 | 3.96 | 12.07 | 3.05 | 20.37 | 54.83 | 56.96 | 69.51 | 1.249 | 0.601 |
| 1/31/2011 | 3.94 | 11.60 | 2.95 | 15.18 | 54.96 | 57.32 | 69.98 | 0.960 | 0.603 |
| 2/28/2011 | 3.87 | 10.58 | 2.73 | 0.04 | 55.06 | 57.62 | 69.98 | 0.003 | 0.601 |
| 3/31/2011 | 3.66 | 9.15 | 2.50 | 5.61 | 55.18 | 57.90 | 70.15 | 0.429 | 0.600 |
| 4/30/2011 | 3.63 | 11.36 | 3.13 | 9.17 | 55.29 | 58.24 | 70.43 | 0.602 | 0.600 |
| 5/31/2011 | 3.85 | 7.81 | 2.03 | 0.27 | 55.41 | 58.48 | 70.44 | 0.023 | 0.598 |
| 6/30/2011 | 3.82 | 6.26 | 1.64 | | 55.52 | 58.67 | 70.44 | 0.000 | 0.597 |
| 7/31/2011 | 3.66 | 9.66 | 2.64 | | 55.63 | 58.97 | 70.44 | 0.000 | 0.595 |
| 8/31/2011 | 3.79 | 11.70 | 3.09 | | 55.75 | 59.33 | 70.44 | 0.000 | 0.592 |
| 9/30/2011 | 3.64 | 11.46 | 3.15 | 7.90 | 55.86 | 59.68 | 70.67 | 0.515 | 0.592 |
| 10/31/2011 | 3.78 | 11.50 | 3.04 | 19.81 | 55.98 | 60.03 | 71.29 | 1.275 | 0.595 |
| 11/30/2011 | 3.71 | 11.46 | 3.09 | 20.98 | 56.09 | 60.38 | 71.92 | 1.359 | 0.598 |
| 12/31/2011 | 3.06 | 10.61 | 3.47 | 14.60 | 56.18 | 60.71 | 72.37 | 1.051 | 0.599 |
| 1/31/2012 | 2.97 | 11.38 | 3.83 | 15.80 | 56.27 | 61.06 | 72.86 | 1.085 | 0.601 |
| 2/29/2012 | 3.25 | 11.71 | 3.60 | 12.42 | 56.37 | 61.40 | 73.22 | 0.818 | 0.602 |
| 3/31/2012 | 3.52 | 12.03 | 3.42 | 13.86 | 56.48 | 61.77 | 73.65 | 0.878 | 0.603 |
| 4/30/2012 | 3.75 | 12.97 | 3.46 | 19.74 | 56.59 | 62.16 | 74.24 | 1.163 | 0.605 |
| 5/31/2012 | 3.38 | 12.15 | 3.59 | 21.70 | 56.70 | 62.54 | 74.92 | 1.376 | 0.608 |
| 6/30/2012 | 2.72 | 11.94 | 4.38 | 3.66 | 56.78 | 62.90 | 75.03 | 0.247 | 0.607 |

| 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 |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|---------------------------|-----------------------------|
| 7/31/2012 | 3.06 | 13.18 | 4.30 | 3.90 | 56.87 | 63.30 | 75.15 | 0.237 | 0.605 |
| 8/31/2012 | 2.51 | 12.25 | 4.88 | | 56.95 | 63.68 | 75.15 | 0.000 | 0.603 |
| 9/30/2012 | 3.11 | 13.47 | 4.33 | | 57.04 | 64.09 | 75.15 | 0.000 | 0.601 |
| 10/31/2012 | 2.12 | 7.08 | 3.34 | | 57.11 | 64.31 | 75.15 | 0.000 | 0.599 |
| 11/30/2012 | 1.43 | 2.67 | 1.87 | | 57.15 | 64.39 | 75.15 | 0.000 | 0.599 |
| 12/31/2012 | 2.49 | 11.79 | 4.74 | | 57.23 | 64.75 | 75.15 | 0.000 | 0.597 |
| 1/31/2013 | 2.85 | 12.34 | 4.34 | | 57.32 | 65.14 | 75.15 | 0.000 | 0.594 |
| 2/28/2013 | 3.15 | 11.02 | 3.50 | | 57.41 | 65.44 | 75.15 | 0.000 | 0.592 |
| 3/31/2013 | 2.92 | 10.22 | 3.50 | | 57.50 | 65.76 | 75.15 | 0.000 | 0.591 |
| 4/30/2013 | 2.68 | 10.03 | 3.74 | | 57.58 | 66.06 | 75.15 | 0.000 | 0.589 |
| 5/31/2013 | 2.84 | 9.73 | 3.42 | | 57.66 | 66.36 | 75.15 | 0.000 | 0.587 |
| 6/30/2013 | 3.18 | 10.34 | 3.25 | | 57.76 | 66.67 | 75.15 | 0.000 | 0.585 |
| 7/31/2013 | 3.51 | 12.33 | 3.52 | | 57.87 | 67.06 | 75.15 | 0.000 | 0.583 |
| 8/31/2013 | 3.59 | 12.42 | 3.46 | | 57.98 | 67.44 | 75.15 | 0.000 | 0.581 |
| 9/30/2013 | 3.51 | 12.03 | 3.42 | | 58.09 | 67.80 | 75.15 | 0.000 | 0.578 |
| 10/31/2013 | 3.27 | 11.91 | 3.64 | | 58.19 | 68.17 | 75.15 | 0.000 | 0.576 |
| 11/30/2013 | 3.93 | 12.08 | 3.07 | | 58.30 | 68.53 | 75.15 | 0.000 | 0.574 |
| 12/31/2013 | 3.85 | 12.05 | 3.13 | | 58.42 | 68.91 | 75.15 | 0.000 | 0.572 |