

**DALY UNIT NO. 6**  
**WATERFLOOD EOR PROJECT**

**ANNUAL REPORT FOR 2016**

**June 26, 2017**

**Tundra Oil and Gas Partnership**

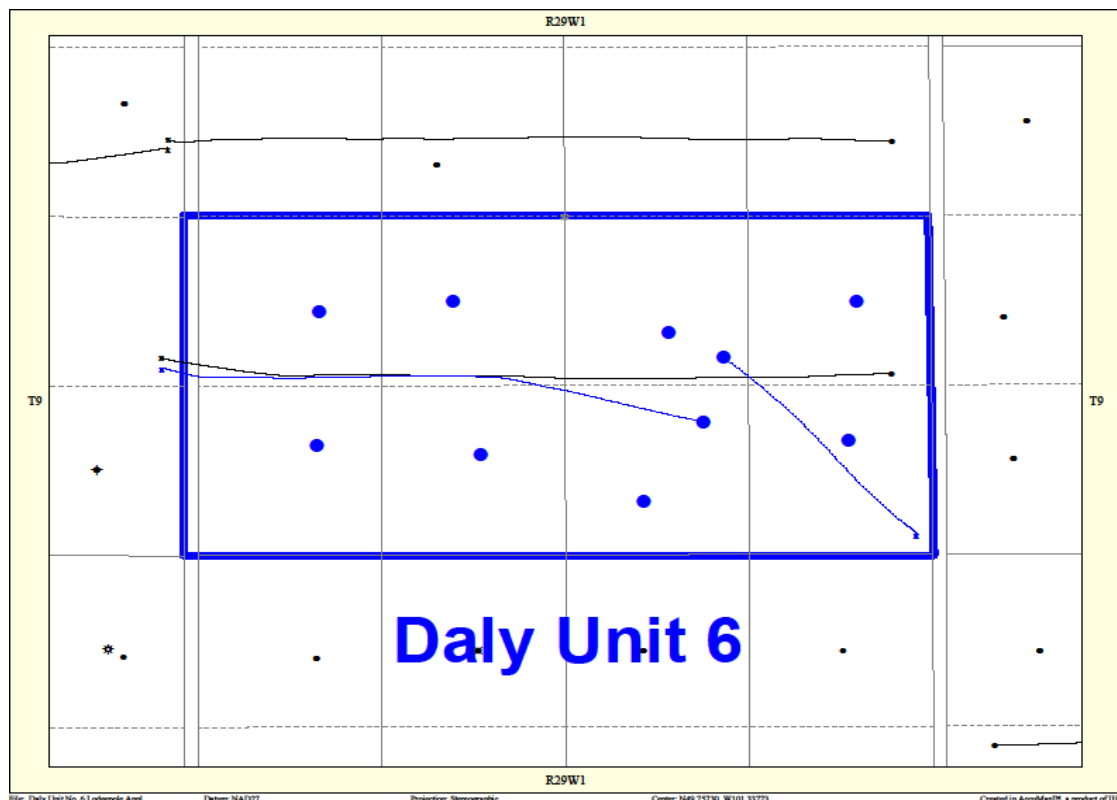
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## **INTRODUCTION**

Daly Unit No. 6 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Waterflood Order No. 39, effective January 1st, 2014 with Tundra Oil and Gas as Operator. The EOR project area, outlined in blue in Figure 1, contains 1 abandoned horizontal well, 8 vertical and 1 horizontal producing well in 8 LSDs in Section 22, Township 9, Range 29W1. Well list and well status is available in Appendix A.

**Figure 1: Daly Unit No. 6 Area Outline**



In accordance with Section 73 of the Manitoba Drilling and Production Regulation, Tundra submits the following 2016 Annual Progress Report for Daly Unit No. 6 as required by Waterflood Order No. 39.

## **DISCUSSION**

### **Production History**

For the wells included in Daly Unit No. 6, production started in October 1993 with the 00/07-22-009-29W1/00 well. Oil production peaked at 22.4 m<sup>3</sup>/d in October of 2014. In 2016, the average production for the unit was 4.54 m<sup>3</sup>/d of oil and 3.21 m<sup>3</sup>/d of water, and the average WOR was 0.71 m<sup>3</sup>/m<sup>3</sup>. There is currently no water injection in Daly Unit No. 6. The rates and WOR are presented in Figure 2.

Figure 2: Daly Unit No. 6 Production/Injection Rates and WOR vs. Time

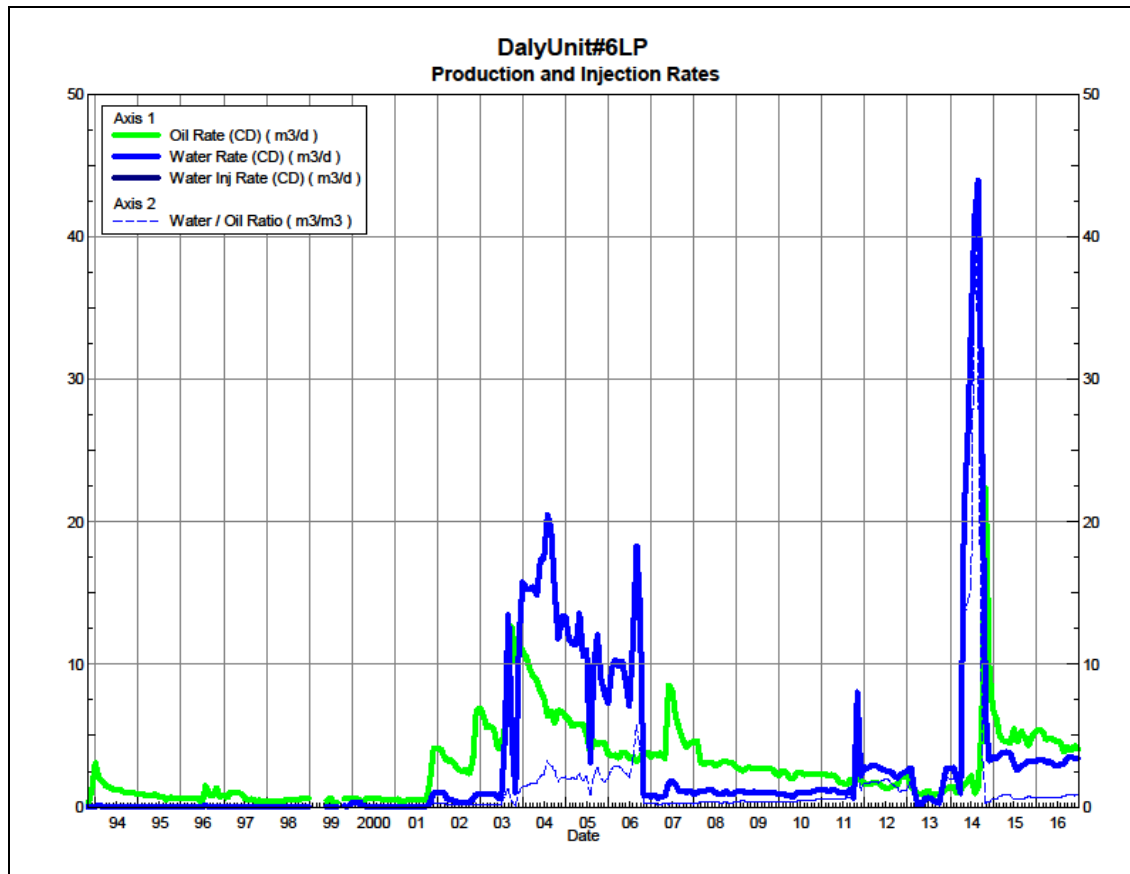
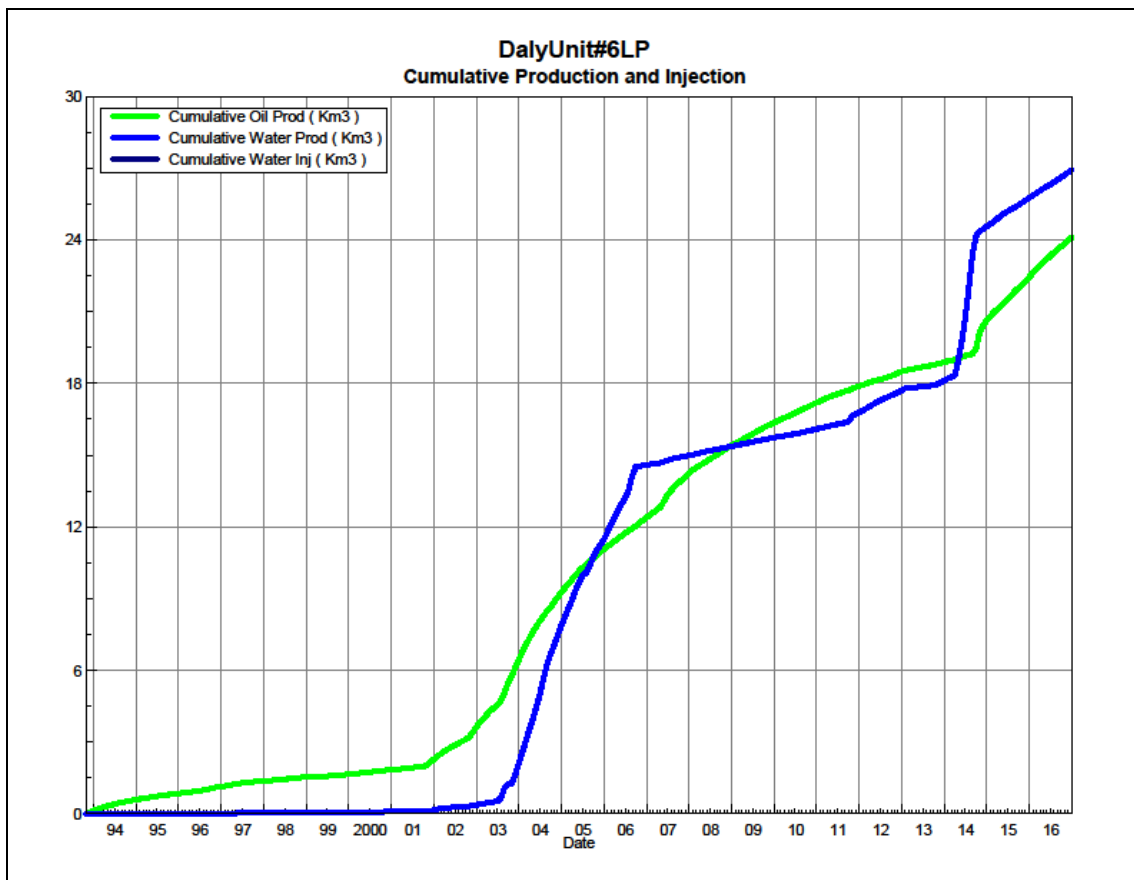


Figure 3 shows the cumulative production for Daly Unit No. 6 to the end of December 2016 as 24.1 e<sup>3</sup>m<sup>3</sup> of oil and 26.9 e<sup>3</sup>m<sup>3</sup> of water, representing a 1.6% recovery factor of the OOIP.

**Figure 3: Daly Unit No. 6 Cumulative Oil, Water and Water Injected vs. Time**



### **Waterflood History**

Daly Unit No. 6 is still in the development phase at the end of 2016. In February 2014, the single proposed horizontal injector (02/02-22-009-29W1) for the unit was drilled between the existing vertical producing wells, completing an effective 40 acre line drive waterflood pattern. In March 2014, the proposed injector was put on production. In order to maximize recovery from this Unit, Tundra expects to produce the future injector for a short period of time to clean-up the reservoir near the wellbore. All horizontal wells are fracture stimulated to improve the injection rates.

Production performance by injector pattern are summarized in Appendix B.

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**

The injection water for Daly Unit No. 6 will be sourced from the 16-32-007-29W1 well (Lodgepole formation). The water is treated at the 03-04-007-29W1 battery where it is filtered to 0.5 microns and has scale inhibitor added. The injection water is then distributed to the injectors through the dedicated infrastructure system.

### **Injection Wellhead Pressures**

No wellhead injection pressure is available for Daly Unit No. 6.

### **Reservoir Pressure**

Where practical, Tundra is committed to collecting pressure data from newly drilled injection wells. For Daly Unit No. 6, pressure data taken in 2014 from the 02/02-22 Lodgepole location is currently available. The reservoir pressure is 4847.9 kPa(a).

### **Well Servicing**

No maintenance was required on the 10 wells in Daly Unit No. 6 in 2016.

### **Waterflood Performance Discussion**

At the end of 2016, there is currently no water injection in Daly Unit No. 6. The waterflood area had 1 injection well drilled in 2014 that is currently on production. Water injection is anticipated to begin in 2018, after the expected conversion of the 02/02-22 producer to an injector.

A summary table of the injector pattern(s) is presented in Appendix B. Plots of the production are presented in Appendix C for each of the injection pattern(s).

## **List of Appendices**

Appendix A: Well List and Well Status

Appendix B: Daly Unit No. 6 Injection Pattern Summary

Appendix C: Injector Pattern Production/Injection Rates, Cumulative and VRR Plot

## Appendix A

| UWI                   | Well Status         |
|-----------------------|---------------------|
| 100/01-22-009-29W1/00 | Capable of OIL Prod |
| 100/02-22-009-29W1/02 | Capable of OIL Prod |
| 102/02-22-009-29W1/00 | Capable of OIL Prod |
| 100/03-22-009-29W1/00 | Capable of OIL Prod |
| 100/04-22-009-29W1/00 | Capable of OIL Prod |
| 100/05-22-009-29W1/02 | Capable of OIL Prod |
| 100/06-22-009-29W1/00 | Capable of OIL Prod |
| 100/07-22-009-29W1/00 | Abandoned           |
| 102/07-22-009-29W1/00 | Capable of OIL Prod |
| 100/08-22-009-29W1/00 | Capable of OIL Prod |



**Appendix B****Daly Unit No. 6 Pattern Summary as of December 2016**

| Pattern Name            | Injector Location<br>(009-29W1) | Status                    | Supported Wells<br>(009-29W1)                                       | No. of Supported Wells | Allocation Factor | Pattern Prod Start Month | Inj Start Month | Oil Rate<br>(m³/d) | Water Rate<br>(m³/d) | WOR<br>(m³/m³) | Water Injection<br>(m³/d) | Cum Oil<br>(E³m³) | Cum Water<br>(E³m³) | Cum Inj Water<br>(E³m³) | Monthly VRR | Cum VRR |
|-------------------------|---------------------------------|---------------------------|---|------------------------|-------------------|--------------------------|-----------------|--------------------|----------------------|----------------|---------------------------|-------------------|---------------------|-------------------------|-------------|---------|
| 02/02-22-09-29 Injector | 02/08-21                        | Capable of Oil Production | 01-22, 02-22, 03-22, 04-22,<br>05-22, 06-22, 07-22, 02/07-22, 08-22 | 9                      | 1                 | Oct 1993                 | -               | 4.06               | 3.40                 | 0.84           | -                         | 24.1              | 26.9                | 0.0                     | 0.0         | 0.00    |

## **Appendix C**

### **Rates and VRR Plots**

# Pattern: 02/02-22-009-29Inj Set: DalyUnit#6LP

Oil Formation Vol. Factor : 1.0500 m3/m3

Water Formation Vol Factor : 1.0000 m3/m3

Water / Oil Ratio : 0.79 m3/m3

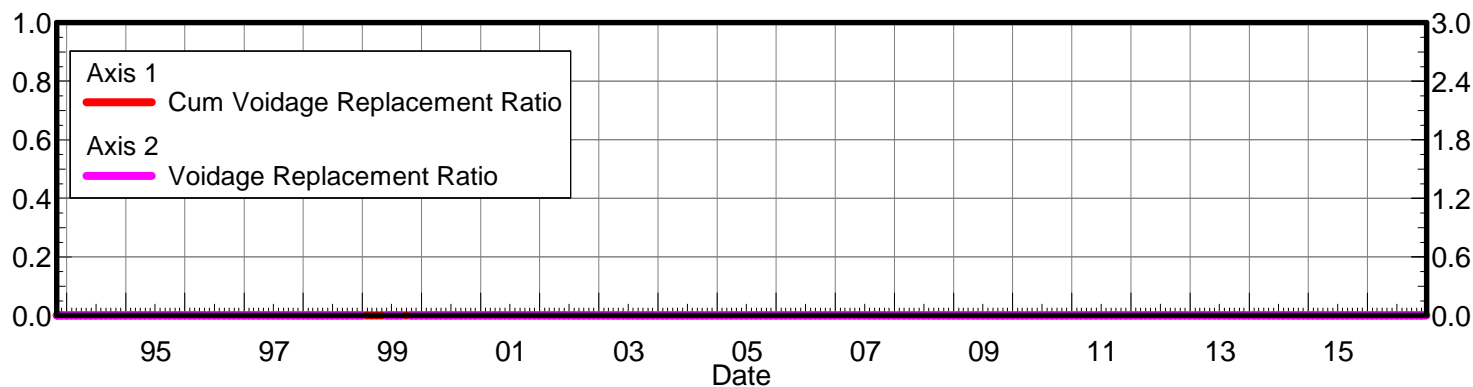
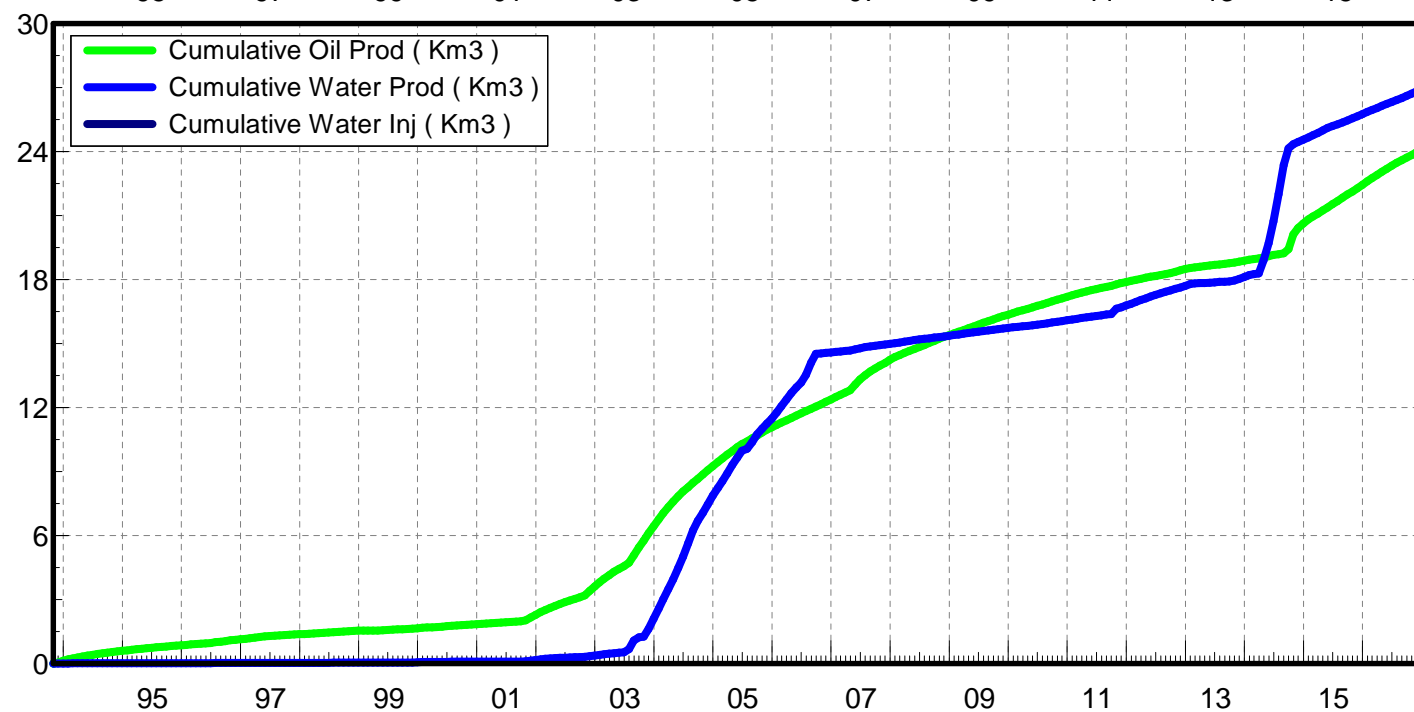
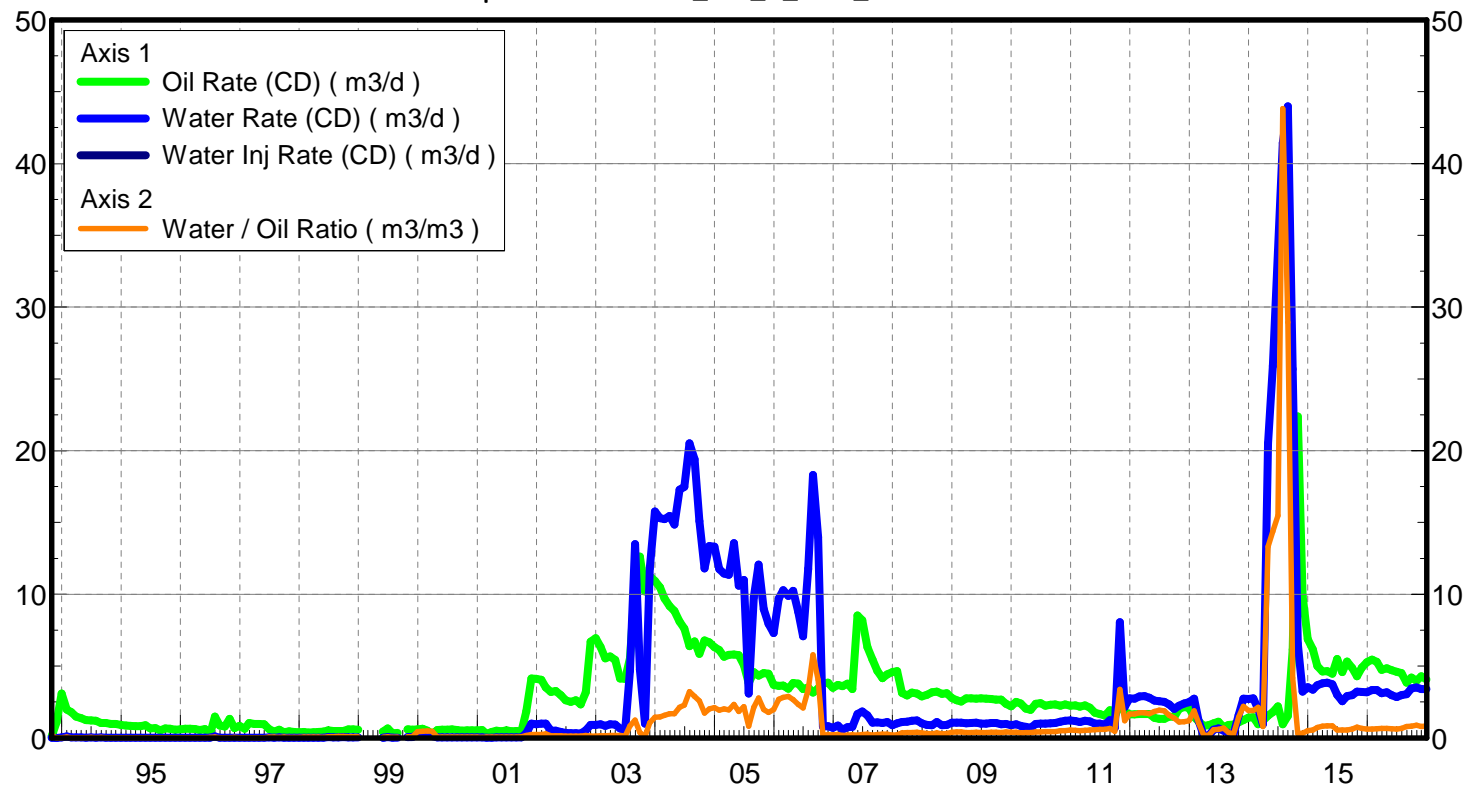
Operator: TUNDRA\_OIL\_&\_GAS\_LIMITED

Oil Rate (CD) : 4.24 m3/d

Water Rate (CD) : 3.34 m3/d

Water Inj Rate (CD) : \* m3/d

April 18, 2017



| 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 | VRR   | Cum VRR |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|-------|---------|
| 10/31/1993 | 0.14               | 0.02                 | 0.17                  |                          | 0.00             | 0.00               | 0.00              | 0.000 | 0.000   |
| 11/30/1993 | 1.08               | 0.00                 | 0.00                  |                          | 0.04             | 0.00               | 0.00              | 0.000 | 0.000   |
| 12/31/1993 | 3.08               | 0.03                 | 0.01                  |                          | 0.13             | 0.00               | 0.00              | 0.000 | 0.000   |
| 1/31/1994  | 1.97               | 0.10                 | 0.05                  |                          | 0.19             | 0.00               | 0.00              | 0.000 | 0.000   |
| 2/28/1994  | 1.80               | 0.03                 | 0.01                  |                          | 0.24             | 0.01               | 0.00              | 0.000 | 0.000   |
| 3/31/1994  | 1.48               | 0.03                 | 0.02                  |                          | 0.29             | 0.01               | 0.00              | 0.000 | 0.000   |
| 4/30/1994  | 1.37               | 0.03                 | 0.02                  |                          | 0.33             | 0.01               | 0.00              | 0.000 | 0.000   |
| 5/31/1994  | 1.23               | 0.02                 | 0.02                  |                          | 0.37             | 0.01               | 0.00              | 0.000 | 0.000   |
| 6/30/1994  | 1.22               | 0.03                 | 0.03                  |                          | 0.41             | 0.01               | 0.00              | 0.000 | 0.000   |
| 7/31/1994  | 1.18               | 0.02                 | 0.02                  |                          | 0.44             | 0.01               | 0.00              | 0.000 | 0.000   |
| 8/31/1994  | 1.04               | 0.04                 | 0.04                  |                          | 0.47             | 0.01               | 0.00              | 0.000 | 0.000   |
| 9/30/1994  | 1.04               | 0.02                 | 0.02                  |                          | 0.51             | 0.01               | 0.00              | 0.000 | 0.000   |
| 10/31/1994 | 0.96               | 0.01                 | 0.01                  |                          | 0.54             | 0.01               | 0.00              | 0.000 | 0.000   |
| 11/30/1994 | 0.96               | 0.01                 | 0.01                  |                          | 0.56             | 0.01               | 0.00              | 0.000 | 0.000   |
| 12/31/1994 | 0.90               | 0.01                 | 0.01                  |                          | 0.59             | 0.01               | 0.00              | 0.000 | 0.000   |
| 1/31/1995  | 0.86               | 0.01                 | 0.01                  |                          | 0.62             | 0.01               | 0.00              | 0.000 | 0.000   |
| 2/28/1995  | 0.85               | 0.01                 | 0.01                  |                          | 0.64             | 0.01               | 0.00              | 0.000 | 0.000   |
| 3/31/1995  | 0.81               | 0.01                 | 0.02                  |                          | 0.67             | 0.01               | 0.00              | 0.000 | 0.000   |
| 4/30/1995  | 0.82               | 0.01                 | 0.02                  |                          | 0.69             | 0.01               | 0.00              | 0.000 | 0.000   |
| 5/31/1995  | 0.88               | 0.01                 | 0.01                  |                          | 0.72             | 0.01               | 0.00              | 0.000 | 0.000   |
| 6/30/1995  | 0.65               | 0.01                 | 0.02                  |                          | 0.74             | 0.01               | 0.00              | 0.000 | 0.000   |
| 7/31/1995  | 0.68               | 0.01                 | 0.01                  |                          | 0.76             | 0.01               | 0.00              | 0.000 | 0.000   |
| 8/31/1995  | 0.52               | 0.01                 | 0.02                  |                          | 0.78             | 0.01               | 0.00              | 0.000 | 0.000   |
| 9/30/1995  | 0.67               | 0.01                 | 0.01                  |                          | 0.80             | 0.02               | 0.00              | 0.000 | 0.000   |
| 10/31/1995 | 0.65               | 0.01                 | 0.01                  |                          | 0.82             | 0.02               | 0.00              | 0.000 | 0.000   |
| 11/30/1995 | 0.56               | 0.01                 | 0.02                  |                          | 0.83             | 0.02               | 0.00              | 0.000 | 0.000   |
| 12/31/1995 | 0.60               | 0.01                 | 0.02                  |                          | 0.85             | 0.02               | 0.00              | 0.000 | 0.000   |
| 1/31/1996  | 0.64               | 0.01                 | 0.02                  |                          | 0.87             | 0.02               | 0.00              | 0.000 | 0.000   |
| 2/29/1996  | 0.64               | 0.01                 | 0.02                  |                          | 0.89             | 0.02               | 0.00              | 0.000 | 0.000   |
| 3/31/1996  | 0.61               | 0.01                 | 0.02                  |                          | 0.91             | 0.02               | 0.00              | 0.000 | 0.000   |
| 4/30/1996  | 0.56               | 0.01                 | 0.02                  |                          | 0.93             | 0.02               | 0.00              | 0.000 | 0.000   |
| 5/31/1996  | 0.62               | 0.01                 | 0.02                  |                          | 0.95             | 0.02               | 0.00              | 0.000 | 0.000   |
| 6/30/1996  | 0.19               | 0.01                 | 0.03                  |                          | 0.95             | 0.02               | 0.00              | 0.000 | 0.000   |
| 7/31/1996  | 1.48               | 0.09                 | 0.06                  |                          | 1.00             | 0.02               | 0.00              | 0.000 | 0.000   |
| 8/31/1996  | 0.86               | 0.01                 | 0.02                  |                          | 1.02             | 0.02               | 0.00              | 0.000 | 0.000   |
| 9/30/1996  | 0.78               | 0.02                 | 0.02                  |                          | 1.05             | 0.02               | 0.00              | 0.000 | 0.000   |
| 10/31/1996 | 1.34               | 0.02                 | 0.01                  |                          | 1.09             | 0.02               | 0.00              | 0.000 | 0.000   |
| 11/30/1996 | 0.68               | 0.02                 | 0.02                  |                          | 1.11             | 0.02               | 0.00              | 0.000 | 0.000   |
| 12/31/1996 | 0.85               | 0.02                 | 0.02                  |                          | 1.14             | 0.02               | 0.00              | 0.000 | 0.000   |
| 1/31/1997  | 0.63               | 0.01                 | 0.02                  |                          | 1.16             | 0.02               | 0.00              | 0.000 | 0.000   |
| 2/28/1997  | 1.03               | 0.02                 | 0.02                  |                          | 1.18             | 0.02               | 0.00              | 0.000 | 0.000   |
| 3/31/1997  | 0.96               | 0.02                 | 0.02                  |                          | 1.21             | 0.02               | 0.00              | 0.000 | 0.000   |
| 4/30/1997  | 0.98               | 0.02                 | 0.02                  |                          | 1.24             | 0.03               | 0.00              | 0.000 | 0.000   |
| 5/31/1997  | 0.94               | 0.02                 | 0.02                  |                          | 1.27             | 0.03               | 0.00              | 0.000 | 0.000   |
| 6/30/1997  | 0.62               | 0.03                 | 0.05                  |                          | 1.29             | 0.03               | 0.00              | 0.000 | 0.000   |
| 7/31/1997  | 0.45               | 0.02                 | 0.05                  |                          | 1.30             | 0.03               | 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 | VRR   | Cum VRR |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|-------|---------|
| 8/31/1997  | 0.57               | 0.03                 | 0.05                  |                          | 1.32             | 0.03               | 0.00              | 0.000 | 0.000   |
| 9/30/1997  | 0.39               | 0.02                 | 0.05                  |                          | 1.33             | 0.03               | 0.00              | 0.000 | 0.000   |
| 10/31/1997 | 0.46               | 0.02                 | 0.04                  |                          | 1.35             | 0.03               | 0.00              | 0.000 | 0.000   |
| 11/30/1997 | 0.41               | 0.02                 | 0.04                  |                          | 1.36             | 0.03               | 0.00              | 0.000 | 0.000   |
| 12/31/1997 | 0.38               | 0.02                 | 0.04                  |                          | 1.37             | 0.03               | 0.00              | 0.000 | 0.000   |
| 1/31/1998  | 0.40               | 0.02                 | 0.05                  |                          | 1.39             | 0.03               | 0.00              | 0.000 | 0.000   |
| 2/28/1998  | 0.36               | 0.02                 | 0.05                  |                          | 1.40             | 0.03               | 0.00              | 0.000 | 0.000   |
| 3/31/1998  | 0.39               | 0.02                 | 0.05                  |                          | 1.41             | 0.03               | 0.00              | 0.000 | 0.000   |
| 4/30/1998  | 0.42               | 0.02                 | 0.05                  |                          | 1.42             | 0.03               | 0.00              | 0.000 | 0.000   |
| 5/31/1998  | 0.43               | 0.02                 | 0.05                  |                          | 1.43             | 0.03               | 0.00              | 0.000 | 0.000   |
| 6/30/1998  | 0.52               | 0.05                 | 0.09                  |                          | 1.45             | 0.04               | 0.00              | 0.000 | 0.000   |
| 7/31/1998  | 0.48               | 0.04                 | 0.09                  |                          | 1.46             | 0.04               | 0.00              | 0.000 | 0.000   |
| 8/31/1998  | 0.47               | 0.05                 | 0.10                  |                          | 1.48             | 0.04               | 0.00              | 0.000 | 0.000   |
| 9/30/1998  | 0.48               | 0.05                 | 0.10                  |                          | 1.49             | 0.04               | 0.00              | 0.000 | 0.000   |
| 10/31/1998 | 0.59               | 0.05                 | 0.08                  |                          | 1.51             | 0.04               | 0.00              | 0.000 | 0.000   |
| 11/30/1998 | 0.60               | 0.04                 | 0.07                  |                          | 1.53             | 0.04               | 0.00              | 0.000 | 0.000   |
| 12/31/1998 | 0.56               | 0.05                 | 0.08                  |                          | 1.55             | 0.04               | 0.00              | 0.000 | 0.000   |
| 5/31/1999  | 0.43               | 0.02                 | 0.05                  |                          | 1.56             | 0.04               | 0.00              | 0.000 | 0.000   |
| 6/30/1999  | 0.65               | 0.05                 | 0.07                  |                          | 1.58             | 0.05               | 0.00              | 0.000 | 0.000   |
| 7/31/1999  | 0.32               | 0.01                 | 0.04                  |                          | 1.59             | 0.05               | 0.00              | 0.000 | 0.000   |
| 8/31/1999  | 0.34               | 0.02                 | 0.06                  |                          | 1.60             | 0.05               | 0.00              | 0.000 | 0.000   |
| 10/31/1999 | 0.59               | 0.05                 | 0.09                  |                          | 1.62             | 0.05               | 0.00              | 0.000 | 0.000   |
| 11/30/1999 | 0.56               | 0.05                 | 0.08                  |                          | 1.64             | 0.05               | 0.00              | 0.000 | 0.000   |
| 12/31/1999 | 0.59               | 0.26                 | 0.44                  |                          | 1.65             | 0.06               | 0.00              | 0.000 | 0.000   |
| 1/31/2000  | 0.64               | 0.29                 | 0.45                  |                          | 1.67             | 0.07               | 0.00              | 0.000 | 0.000   |
| 2/29/2000  | 0.51               | 0.24                 | 0.47                  |                          | 1.69             | 0.07               | 0.00              | 0.000 | 0.000   |
| 3/31/2000  | 0.26               | 0.12                 | 0.45                  |                          | 1.70             | 0.08               | 0.00              | 0.000 | 0.000   |
| 4/30/2000  | 0.56               | 0.03                 | 0.05                  |                          | 1.71             | 0.08               | 0.00              | 0.000 | 0.000   |
| 5/31/2000  | 0.57               | 0.03                 | 0.06                  |                          | 1.73             | 0.08               | 0.00              | 0.000 | 0.000   |
| 6/30/2000  | 0.56               | 0.03                 | 0.05                  |                          | 1.75             | 0.08               | 0.00              | 0.000 | 0.000   |
| 7/31/2000  | 0.59               | 0.03                 | 0.05                  |                          | 1.77             | 0.08               | 0.00              | 0.000 | 0.000   |
| 8/31/2000  | 0.55               | 0.04                 | 0.06                  |                          | 1.78             | 0.08               | 0.00              | 0.000 | 0.000   |
| 9/30/2000  | 0.51               | 0.03                 | 0.05                  |                          | 1.80             | 0.08               | 0.00              | 0.000 | 0.000   |
| 10/31/2000 | 0.52               | 0.03                 | 0.05                  |                          | 1.81             | 0.08               | 0.00              | 0.000 | 0.000   |
| 11/30/2000 | 0.52               | 0.03                 | 0.05                  |                          | 1.83             | 0.08               | 0.00              | 0.000 | 0.000   |
| 12/31/2000 | 0.53               | 0.03                 | 0.06                  |                          | 1.85             | 0.09               | 0.00              | 0.000 | 0.000   |
| 1/31/2001  | 0.56               | 0.03                 | 0.05                  |                          | 1.86             | 0.09               | 0.00              | 0.000 | 0.000   |
| 2/28/2001  | 0.28               | 0.01                 | 0.05                  |                          | 1.87             | 0.09               | 0.00              | 0.000 | 0.000   |
| 3/31/2001  | 0.41               | 0.02                 | 0.05                  |                          | 1.88             | 0.09               | 0.00              | 0.000 | 0.000   |
| 4/30/2001  | 0.51               | 0.03                 | 0.05                  |                          | 1.90             | 0.09               | 0.00              | 0.000 | 0.000   |
| 5/31/2001  | 0.45               | 0.03                 | 0.06                  |                          | 1.91             | 0.09               | 0.00              | 0.000 | 0.000   |
| 6/30/2001  | 0.52               | 0.03                 | 0.05                  |                          | 1.93             | 0.09               | 0.00              | 0.000 | 0.000   |
| 7/31/2001  | 0.46               | 0.03                 | 0.06                  |                          | 1.94             | 0.09               | 0.00              | 0.000 | 0.000   |
| 8/31/2001  | 0.49               | 0.03                 | 0.06                  |                          | 1.96             | 0.09               | 0.00              | 0.000 | 0.000   |
| 9/30/2001  | 0.47               | 0.03                 | 0.07                  |                          | 1.97             | 0.09               | 0.00              | 0.000 | 0.000   |
| 10/31/2001 | 1.84               | 0.32                 | 0.18                  |                          | 2.03             | 0.10               | 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 | VRR   | Cum VRR |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|-------|---------|
| 11/30/2001 | 4.13               | 1.00                 | 0.24                  |                          | 2.15             | 0.13               | 0.00              | 0.000 | 0.000   |
| 12/31/2001 | 4.12               | 0.95                 | 0.23                  |                          | 2.28             | 0.16               | 0.00              | 0.000 | 0.000   |
| 1/31/2002  | 4.04               | 0.99                 | 0.25                  |                          | 2.41             | 0.19               | 0.00              | 0.000 | 0.000   |
| 2/28/2002  | 3.51               | 0.99                 | 0.28                  |                          | 2.50             | 0.22               | 0.00              | 0.000 | 0.000   |
| 3/31/2002  | 3.20               | 0.50                 | 0.16                  |                          | 2.60             | 0.24               | 0.00              | 0.000 | 0.000   |
| 4/30/2002  | 3.27               | 0.51                 | 0.15                  |                          | 2.70             | 0.25               | 0.00              | 0.000 | 0.000   |
| 5/31/2002  | 2.97               | 0.41                 | 0.14                  |                          | 2.79             | 0.26               | 0.00              | 0.000 | 0.000   |
| 6/30/2002  | 2.61               | 0.34                 | 0.13                  |                          | 2.87             | 0.27               | 0.00              | 0.000 | 0.000   |
| 7/31/2002  | 2.50               | 0.32                 | 0.13                  |                          | 2.95             | 0.28               | 0.00              | 0.000 | 0.000   |
| 8/31/2002  | 2.62               | 0.32                 | 0.12                  |                          | 3.03             | 0.29               | 0.00              | 0.000 | 0.000   |
| 9/30/2002  | 2.33               | 0.31                 | 0.13                  |                          | 3.10             | 0.30               | 0.00              | 0.000 | 0.000   |
| 10/31/2002 | 3.17               | 0.53                 | 0.17                  |                          | 3.20             | 0.32               | 0.00              | 0.000 | 0.000   |
| 11/30/2002 | 6.70               | 0.89                 | 0.13                  |                          | 3.40             | 0.35               | 0.00              | 0.000 | 0.000   |
| 12/31/2002 | 6.94               | 0.90                 | 0.13                  |                          | 3.62             | 0.37               | 0.00              | 0.000 | 0.000   |
| 1/31/2003  | 6.35               | 0.96                 | 0.15                  |                          | 3.81             | 0.40               | 0.00              | 0.000 | 0.000   |
| 2/28/2003  | 5.54               | 0.85                 | 0.15                  |                          | 3.97             | 0.43               | 0.00              | 0.000 | 0.000   |
| 3/31/2003  | 5.67               | 0.95                 | 0.17                  |                          | 4.14             | 0.46               | 0.00              | 0.000 | 0.000   |
| 4/30/2003  | 5.42               | 0.92                 | 0.17                  |                          | 4.31             | 0.48               | 0.00              | 0.000 | 0.000   |
| 5/31/2003  | 4.14               | 0.67                 | 0.16                  |                          | 4.43             | 0.50               | 0.00              | 0.000 | 0.000   |
| 6/30/2003  | 4.12               | 0.55                 | 0.13                  |                          | 4.56             | 0.52               | 0.00              | 0.000 | 0.000   |
| 7/31/2003  | 5.55               | 4.67                 | 0.84                  |                          | 4.73             | 0.67               | 0.00              | 0.000 | 0.000   |
| 8/31/2003  | 10.81              | 13.49                | 1.25                  |                          | 5.06             | 1.08               | 0.00              | 0.000 | 0.000   |
| 9/30/2003  | 12.63              | 4.77                 | 0.38                  |                          | 5.44             | 1.23               | 0.00              | 0.000 | 0.000   |
| 10/31/2003 | 10.20              | 0.99                 | 0.10                  |                          | 5.76             | 1.26               | 0.00              | 0.000 | 0.000   |
| 11/30/2003 | 11.26              | 11.82                | 1.05                  |                          | 6.10             | 1.61               | 0.00              | 0.000 | 0.000   |
| 12/31/2003 | 10.94              | 15.76                | 1.44                  |                          | 6.44             | 2.10               | 0.00              | 0.000 | 0.000   |
| 1/31/2004  | 10.49              | 15.30                | 1.46                  |                          | 6.76             | 2.58               | 0.00              | 0.000 | 0.000   |
| 2/29/2004  | 9.71               | 15.24                | 1.57                  |                          | 7.04             | 3.02               | 0.00              | 0.000 | 0.000   |
| 3/31/2004  | 9.16               | 15.45                | 1.69                  |                          | 7.33             | 3.50               | 0.00              | 0.000 | 0.000   |
| 4/30/2004  | 8.85               | 14.86                | 1.68                  |                          | 7.59             | 3.94               | 0.00              | 0.000 | 0.000   |
| 5/31/2004  | 8.09               | 17.27                | 2.13                  |                          | 7.84             | 4.48               | 0.00              | 0.000 | 0.000   |
| 6/30/2004  | 7.62               | 17.49                | 2.30                  |                          | 8.07             | 5.00               | 0.00              | 0.000 | 0.000   |
| 7/31/2004  | 6.38               | 20.51                | 3.22                  |                          | 8.27             | 5.64               | 0.00              | 0.000 | 0.000   |
| 8/31/2004  | 6.72               | 19.39                | 2.88                  |                          | 8.48             | 6.24               | 0.00              | 0.000 | 0.000   |
| 9/30/2004  | 5.85               | 15.09                | 2.58                  |                          | 8.65             | 6.69               | 0.00              | 0.000 | 0.000   |
| 10/31/2004 | 6.79               | 11.79                | 1.74                  |                          | 8.86             | 7.06               | 0.00              | 0.000 | 0.000   |
| 11/30/2004 | 6.66               | 13.37                | 2.01                  |                          | 9.06             | 7.46               | 0.00              | 0.000 | 0.000   |
| 12/31/2004 | 6.33               | 13.33                | 2.11                  |                          | 9.26             | 7.87               | 0.00              | 0.000 | 0.000   |
| 1/31/2005  | 6.12               | 11.76                | 1.92                  |                          | 9.45             | 8.24               | 0.00              | 0.000 | 0.000   |
| 2/28/2005  | 5.65               | 11.44                | 2.03                  |                          | 9.61             | 8.56               | 0.00              | 0.000 | 0.000   |
| 3/31/2005  | 5.79               | 11.36                | 1.96                  |                          | 9.79             | 8.91               | 0.00              | 0.000 | 0.000   |
| 4/30/2005  | 5.81               | 13.55                | 2.33                  |                          | 9.96             | 9.32               | 0.00              | 0.000 | 0.000   |
| 5/31/2005  | 5.76               | 10.60                | 1.84                  |                          | 10.14            | 9.64               | 0.00              | 0.000 | 0.000   |
| 6/30/2005  | 5.07               | 10.99                | 2.17                  |                          | 10.29            | 9.97               | 0.00              | 0.000 | 0.000   |
| 7/31/2005  | 3.83               | 3.09                 | 0.81                  |                          | 10.41            | 10.07              | 0.00              | 0.000 | 0.000   |
| 8/31/2005  | 4.59               | 9.79                 | 2.13                  |                          | 10.55            | 10.37              | 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 | VRR   | Cum VRR |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|-------|---------|
| 9/30/2005  | 4.35               | 12.07                | 2.78                  |                          | 10.68            | 10.74              | 0.00              | 0.000 | 0.000   |
| 10/31/2005 | 4.52               | 8.96                 | 1.98                  |                          | 10.82            | 11.01              | 0.00              | 0.000 | 0.000   |
| 11/30/2005 | 4.48               | 7.95                 | 1.77                  |                          | 10.96            | 11.25              | 0.00              | 0.000 | 0.000   |
| 12/31/2005 | 3.70               | 7.29                 | 1.97                  |                          | 11.07            | 11.48              | 0.00              | 0.000 | 0.000   |
| 1/31/2006  | 3.63               | 9.71                 | 2.68                  |                          | 11.19            | 11.78              | 0.00              | 0.000 | 0.000   |
| 2/28/2006  | 3.65               | 10.29                | 2.82                  |                          | 11.29            | 12.07              | 0.00              | 0.000 | 0.000   |
| 3/31/2006  | 3.42               | 9.88                 | 2.89                  |                          | 11.39            | 12.37              | 0.00              | 0.000 | 0.000   |
| 4/30/2006  | 3.83               | 10.23                | 2.67                  |                          | 11.51            | 12.68              | 0.00              | 0.000 | 0.000   |
| 5/31/2006  | 3.77               | 8.76                 | 2.32                  |                          | 11.63            | 12.95              | 0.00              | 0.000 | 0.000   |
| 6/30/2006  | 3.40               | 7.07                 | 2.08                  |                          | 11.73            | 13.16              | 0.00              | 0.000 | 0.000   |
| 7/31/2006  | 3.51               | 11.79                | 3.36                  |                          | 11.84            | 13.53              | 0.00              | 0.000 | 0.000   |
| 8/31/2006  | 3.16               | 18.31                | 5.79                  |                          | 11.93            | 14.10              | 0.00              | 0.000 | 0.000   |
| 9/30/2006  | 3.45               | 13.98                | 4.05                  |                          | 12.04            | 14.52              | 0.00              | 0.000 | 0.000   |
| 10/31/2006 | 3.81               | 0.79                 | 0.21                  |                          | 12.16            | 14.54              | 0.00              | 0.000 | 0.000   |
| 11/30/2006 | 3.84               | 0.81                 | 0.21                  |                          | 12.27            | 14.57              | 0.00              | 0.000 | 0.000   |
| 12/31/2006 | 3.49               | 0.71                 | 0.20                  |                          | 12.38            | 14.59              | 0.00              | 0.000 | 0.000   |
| 1/31/2007  | 3.69               | 0.85                 | 0.23                  |                          | 12.49            | 14.61              | 0.00              | 0.000 | 0.000   |
| 2/28/2007  | 3.61               | 0.58                 | 0.16                  |                          | 12.60            | 14.63              | 0.00              | 0.000 | 0.000   |
| 3/31/2007  | 3.78               | 0.74                 | 0.20                  |                          | 12.71            | 14.65              | 0.00              | 0.000 | 0.000   |
| 4/30/2007  | 3.40               | 0.76                 | 0.22                  |                          | 12.81            | 14.68              | 0.00              | 0.000 | 0.000   |
| 5/31/2007  | 8.53               | 1.65                 | 0.19                  |                          | 13.08            | 14.73              | 0.00              | 0.000 | 0.000   |
| 6/30/2007  | 8.20               | 1.84                 | 0.22                  |                          | 13.32            | 14.78              | 0.00              | 0.000 | 0.000   |
| 7/31/2007  | 6.31               | 1.57                 | 0.25                  |                          | 13.52            | 14.83              | 0.00              | 0.000 | 0.000   |
| 8/31/2007  | 5.45               | 1.06                 | 0.19                  |                          | 13.69            | 14.86              | 0.00              | 0.000 | 0.000   |
| 9/30/2007  | 4.66               | 1.08                 | 0.23                  |                          | 13.83            | 14.90              | 0.00              | 0.000 | 0.000   |
| 10/31/2007 | 4.17               | 1.03                 | 0.25                  |                          | 13.96            | 14.93              | 0.00              | 0.000 | 0.000   |
| 11/30/2007 | 4.42               | 1.11                 | 0.25                  |                          | 14.09            | 14.96              | 0.00              | 0.000 | 0.000   |
| 12/31/2007 | 4.58               | 0.89                 | 0.19                  |                          | 14.23            | 14.99              | 0.00              | 0.000 | 0.000   |
| 1/31/2008  | 4.64               | 1.03                 | 0.22                  |                          | 14.38            | 15.02              | 0.00              | 0.000 | 0.000   |
| 2/29/2008  | 3.13               | 1.10                 | 0.35                  |                          | 14.47            | 15.05              | 0.00              | 0.000 | 0.000   |
| 3/31/2008  | 2.95               | 1.12                 | 0.38                  |                          | 14.56            | 15.09              | 0.00              | 0.000 | 0.000   |
| 4/30/2008  | 3.15               | 1.18                 | 0.38                  |                          | 14.65            | 15.12              | 0.00              | 0.000 | 0.000   |
| 5/31/2008  | 3.10               | 1.22                 | 0.39                  |                          | 14.75            | 15.16              | 0.00              | 0.000 | 0.000   |
| 6/30/2008  | 2.89               | 1.01                 | 0.35                  |                          | 14.84            | 15.19              | 0.00              | 0.000 | 0.000   |
| 7/31/2008  | 3.00               | 0.90                 | 0.30                  |                          | 14.93            | 15.22              | 0.00              | 0.000 | 0.000   |
| 8/31/2008  | 3.17               | 0.87                 | 0.27                  |                          | 15.03            | 15.25              | 0.00              | 0.000 | 0.000   |
| 9/30/2008  | 3.23               | 1.10                 | 0.34                  |                          | 15.12            | 15.28              | 0.00              | 0.000 | 0.000   |
| 10/31/2008 | 3.07               | 0.87                 | 0.28                  |                          | 15.22            | 15.31              | 0.00              | 0.000 | 0.000   |
| 11/30/2008 | 3.10               | 0.91                 | 0.29                  |                          | 15.31            | 15.33              | 0.00              | 0.000 | 0.000   |
| 12/31/2008 | 2.77               | 1.06                 | 0.38                  |                          | 15.40            | 15.37              | 0.00              | 0.000 | 0.000   |
| 1/31/2009  | 2.62               | 1.06                 | 0.40                  |                          | 15.48            | 15.40              | 0.00              | 0.000 | 0.000   |
| 2/28/2009  | 2.54               | 1.06                 | 0.42                  |                          | 15.55            | 15.43              | 0.00              | 0.000 | 0.000   |
| 3/31/2009  | 2.75               | 1.01                 | 0.37                  |                          | 15.64            | 15.46              | 0.00              | 0.000 | 0.000   |
| 4/30/2009  | 2.75               | 1.03                 | 0.38                  |                          | 15.72            | 15.49              | 0.00              | 0.000 | 0.000   |
| 5/31/2009  | 2.73               | 1.06                 | 0.39                  |                          | 15.80            | 15.52              | 0.00              | 0.000 | 0.000   |
| 6/30/2009  | 2.74               | 0.99                 | 0.36                  |                          | 15.89            | 15.55              | 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 | VRR   | Cum VRR |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|-------|---------|
| 7/31/2009  | 2.72               | 0.99                 | 0.36                  |                          | 15.97            | 15.58              | 0.00              | 0.000 | 0.000   |
| 8/31/2009  | 2.70               | 1.04                 | 0.38                  |                          | 16.05            | 15.62              | 0.00              | 0.000 | 0.000   |
| 9/30/2009  | 2.67               | 1.04                 | 0.39                  |                          | 16.13            | 15.65              | 0.00              | 0.000 | 0.000   |
| 10/31/2009 | 2.67               | 0.96                 | 0.36                  |                          | 16.22            | 15.68              | 0.00              | 0.000 | 0.000   |
| 11/30/2009 | 2.37               | 0.96                 | 0.41                  |                          | 16.29            | 15.71              | 0.00              | 0.000 | 0.000   |
| 12/31/2009 | 2.20               | 0.89                 | 0.40                  |                          | 16.36            | 15.73              | 0.00              | 0.000 | 0.000   |
| 1/31/2010  | 2.52               | 0.96                 | 0.38                  |                          | 16.43            | 15.76              | 0.00              | 0.000 | 0.000   |
| 2/28/2010  | 2.40               | 0.83                 | 0.34                  |                          | 16.50            | 15.79              | 0.00              | 0.000 | 0.000   |
| 3/31/2010  | 2.04               | 0.77                 | 0.38                  |                          | 16.56            | 15.81              | 0.00              | 0.000 | 0.000   |
| 4/30/2010  | 1.95               | 0.71                 | 0.36                  |                          | 16.62            | 15.83              | 0.00              | 0.000 | 0.000   |
| 5/31/2010  | 2.38               | 0.96                 | 0.40                  |                          | 16.70            | 15.86              | 0.00              | 0.000 | 0.000   |
| 6/30/2010  | 2.42               | 1.00                 | 0.41                  |                          | 16.77            | 15.89              | 0.00              | 0.000 | 0.000   |
| 7/31/2010  | 2.23               | 0.99                 | 0.44                  |                          | 16.84            | 15.92              | 0.00              | 0.000 | 0.000   |
| 8/31/2010  | 2.31               | 1.02                 | 0.44                  |                          | 16.91            | 15.95              | 0.00              | 0.000 | 0.000   |
| 9/30/2010  | 2.33               | 1.03                 | 0.44                  |                          | 16.98            | 15.98              | 0.00              | 0.000 | 0.000   |
| 10/31/2010 | 2.24               | 1.12                 | 0.50                  |                          | 17.05            | 16.02              | 0.00              | 0.000 | 0.000   |
| 11/30/2010 | 2.32               | 1.19                 | 0.51                  |                          | 17.12            | 16.05              | 0.00              | 0.000 | 0.000   |
| 12/31/2010 | 2.25               | 1.22                 | 0.54                  |                          | 17.19            | 16.09              | 0.00              | 0.000 | 0.000   |
| 1/31/2011  | 2.27               | 1.17                 | 0.52                  |                          | 17.26            | 16.13              | 0.00              | 0.000 | 0.000   |
| 2/28/2011  | 2.17               | 1.11                 | 0.51                  |                          | 17.32            | 16.16              | 0.00              | 0.000 | 0.000   |
| 3/31/2011  | 2.26               | 1.19                 | 0.53                  |                          | 17.39            | 16.20              | 0.00              | 0.000 | 0.000   |
| 4/30/2011  | 2.10               | 1.16                 | 0.55                  |                          | 17.45            | 16.23              | 0.00              | 0.000 | 0.000   |
| 5/31/2011  | 1.75               | 0.99                 | 0.57                  |                          | 17.51            | 16.26              | 0.00              | 0.000 | 0.000   |
| 6/30/2011  | 1.66               | 0.99                 | 0.60                  |                          | 17.56            | 16.29              | 0.00              | 0.000 | 0.000   |
| 7/31/2011  | 1.54               | 0.93                 | 0.60                  |                          | 17.60            | 16.32              | 0.00              | 0.000 | 0.000   |
| 8/31/2011  | 1.92               | 1.25                 | 0.65                  |                          | 17.66            | 16.36              | 0.00              | 0.000 | 0.000   |
| 9/30/2011  | 1.49               | 0.70                 | 0.47                  |                          | 17.71            | 16.38              | 0.00              | 0.000 | 0.000   |
| 10/31/2011 | 2.39               | 8.05                 | 3.37                  |                          | 17.78            | 16.63              | 0.00              | 0.000 | 0.000   |
| 11/30/2011 | 1.82               | 2.16                 | 1.19                  |                          | 17.84            | 16.69              | 0.00              | 0.000 | 0.000   |
| 12/31/2011 | 1.65               | 2.75                 | 1.67                  |                          | 17.89            | 16.78              | 0.00              | 0.000 | 0.000   |
| 1/31/2012  | 1.64               | 2.74                 | 1.67                  |                          | 17.94            | 16.86              | 0.00              | 0.000 | 0.000   |
| 2/29/2012  | 1.65               | 2.90                 | 1.75                  |                          | 17.99            | 16.95              | 0.00              | 0.000 | 0.000   |
| 3/31/2012  | 1.67               | 2.90                 | 1.74                  |                          | 18.04            | 17.04              | 0.00              | 0.000 | 0.000   |
| 4/30/2012  | 1.67               | 2.80                 | 1.68                  |                          | 18.09            | 17.12              | 0.00              | 0.000 | 0.000   |
| 5/31/2012  | 1.40               | 2.60                 | 1.85                  |                          | 18.13            | 17.20              | 0.00              | 0.000 | 0.000   |
| 6/30/2012  | 1.33               | 2.55                 | 1.92                  |                          | 18.17            | 17.28              | 0.00              | 0.000 | 0.000   |
| 7/31/2012  | 1.34               | 2.52                 | 1.88                  |                          | 18.21            | 17.36              | 0.00              | 0.000 | 0.000   |
| 8/31/2012  | 1.48               | 2.33                 | 1.58                  |                          | 18.26            | 17.43              | 0.00              | 0.000 | 0.000   |
| 9/30/2012  | 1.45               | 2.01                 | 1.38                  |                          | 18.30            | 17.49              | 0.00              | 0.000 | 0.000   |
| 10/31/2012 | 2.03               | 2.23                 | 1.10                  |                          | 18.37            | 17.56              | 0.00              | 0.000 | 0.000   |
| 11/30/2012 | 2.15               | 2.40                 | 1.12                  |                          | 18.43            | 17.63              | 0.00              | 0.000 | 0.000   |
| 12/31/2012 | 2.09               | 2.49                 | 1.19                  |                          | 18.50            | 17.71              | 0.00              | 0.000 | 0.000   |
| 1/31/2013  | 1.45               | 2.74                 | 1.89                  |                          | 18.54            | 17.79              | 0.00              | 0.000 | 0.000   |
| 2/28/2013  | 1.15               | 1.19                 | 1.04                  |                          | 18.57            | 17.83              | 0.00              | 0.000 | 0.000   |
| 3/31/2013  | 0.85               | 0.15                 | 0.18                  |                          | 18.60            | 17.83              | 0.00              | 0.000 | 0.000   |
| 4/30/2013  | 0.87               | 0.16                 | 0.18                  |                          | 18.63            | 17.84              | 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 | VRR   | Cum VRR |
|------------|--------------------|----------------------|-----------------------|--------------------------|------------------|--------------------|-------------------|-------|---------|
| 5/31/2013  | 1.01               | 0.57                 | 0.57                  |                          | 18.66            | 17.85              | 0.00              | 0.000 | 0.000   |
| 6/30/2013  | 1.13               | 0.66                 | 0.59                  |                          | 18.69            | 17.87              | 0.00              | 0.000 | 0.000   |
| 7/31/2013  | 0.75               | 0.51                 | 0.68                  |                          | 18.71            | 17.89              | 0.00              | 0.000 | 0.000   |
| 8/31/2013  | 0.91               | 0.33                 | 0.36                  |                          | 18.74            | 17.90              | 0.00              | 0.000 | 0.000   |
| 9/30/2013  | 0.93               | 0.25                 | 0.26                  |                          | 18.77            | 17.91              | 0.00              | 0.000 | 0.000   |
| 10/31/2013 | 1.09               | 1.56                 | 1.44                  |                          | 18.80            | 17.96              | 0.00              | 0.000 | 0.000   |
| 11/30/2013 | 1.24               | 2.74                 | 2.21                  |                          | 18.84            | 18.04              | 0.00              | 0.000 | 0.000   |
| 12/31/2013 | 1.41               | 2.71                 | 1.92                  |                          | 18.88            | 18.12              | 0.00              | 0.000 | 0.000   |
| 1/31/2014  | 1.44               | 2.75                 | 1.91                  |                          | 18.93            | 18.21              | 0.00              | 0.000 | 0.000   |
| 2/28/2014  | 0.94               | 2.01                 | 2.14                  |                          | 18.96            | 18.26              | 0.00              | 0.000 | 0.000   |
| 3/31/2014  | 1.19               | 0.95                 | 0.80                  |                          | 18.99            | 18.29              | 0.00              | 0.000 | 0.000   |
| 4/30/2014  | 1.54               | 20.52                | 13.32                 |                          | 19.04            | 18.91              | 0.00              | 0.000 | 0.000   |
| 5/31/2014  | 1.80               | 25.90                | 14.39                 |                          | 19.09            | 19.71              | 0.00              | 0.000 | 0.000   |
| 6/30/2014  | 2.19               | 33.89                | 15.47                 |                          | 19.16            | 20.73              | 0.00              | 0.000 | 0.000   |
| 7/31/2014  | 0.95               | 41.42                | 43.82                 |                          | 19.19            | 22.01              | 0.00              | 0.000 | 0.000   |
| 8/31/2014  | 1.52               | 43.98                | 28.94                 |                          | 19.24            | 23.38              | 0.00              | 0.000 | 0.000   |
| 9/30/2014  | 6.14               | 25.69                | 4.18                  |                          | 19.42            | 24.15              | 0.00              | 0.000 | 0.000   |
| 10/31/2014 | 22.38              | 6.57                 | 0.29                  |                          | 20.11            | 24.35              | 0.00              | 0.000 | 0.000   |
| 11/30/2014 | 9.90               | 3.21                 | 0.32                  |                          | 20.41            | 24.45              | 0.00              | 0.000 | 0.000   |
| 12/31/2014 | 6.88               | 3.53                 | 0.51                  |                          | 20.62            | 24.56              | 0.00              | 0.000 | 0.000   |
| 1/31/2015  | 6.16               | 3.35                 | 0.54                  |                          | 20.82            | 24.66              | 0.00              | 0.000 | 0.000   |
| 2/28/2015  | 5.00               | 3.67                 | 0.73                  |                          | 20.96            | 24.76              | 0.00              | 0.000 | 0.000   |
| 3/31/2015  | 4.62               | 3.81                 | 0.82                  |                          | 21.10            | 24.88              | 0.00              | 0.000 | 0.000   |
| 4/30/2015  | 4.64               | 3.85                 | 0.83                  |                          | 21.24            | 25.00              | 0.00              | 0.000 | 0.000   |
| 5/31/2015  | 4.48               | 3.74                 | 0.83                  |                          | 21.38            | 25.11              | 0.00              | 0.000 | 0.000   |
| 6/30/2015  | 5.49               | 3.01                 | 0.55                  |                          | 21.54            | 25.20              | 0.00              | 0.000 | 0.000   |
| 7/31/2015  | 4.57               | 2.55                 | 0.56                  |                          | 21.68            | 25.28              | 0.00              | 0.000 | 0.000   |
| 8/31/2015  | 5.31               | 2.90                 | 0.55                  |                          | 21.85            | 25.37              | 0.00              | 0.000 | 0.000   |
| 9/30/2015  | 4.87               | 2.97                 | 0.61                  |                          | 21.99            | 25.46              | 0.00              | 0.000 | 0.000   |
| 10/31/2015 | 4.29               | 3.23                 | 0.75                  |                          | 22.13            | 25.56              | 0.00              | 0.000 | 0.000   |
| 11/30/2015 | 4.89               | 3.19                 | 0.65                  |                          | 22.27            | 25.66              | 0.00              | 0.000 | 0.000   |
| 12/31/2015 | 5.27               | 3.19                 | 0.61                  |                          | 22.44            | 25.75              | 0.00              | 0.000 | 0.000   |
| 1/31/2016  | 5.45               | 3.32                 | 0.61                  |                          | 22.61            | 25.86              | 0.00              | 0.000 | 0.000   |
| 2/29/2016  | 5.29               | 3.34                 | 0.63                  |                          | 22.76            | 25.95              | 0.00              | 0.000 | 0.000   |
| 3/31/2016  | 4.73               | 3.11                 | 0.66                  |                          | 22.91            | 26.05              | 0.00              | 0.000 | 0.000   |
| 4/30/2016  | 4.85               | 3.18                 | 0.66                  |                          | 23.05            | 26.15              | 0.00              | 0.000 | 0.000   |
| 5/31/2016  | 4.73               | 2.97                 | 0.63                  |                          | 23.20            | 26.24              | 0.00              | 0.000 | 0.000   |
| 6/30/2016  | 4.59               | 2.84                 | 0.62                  |                          | 23.34            | 26.32              | 0.00              | 0.000 | 0.000   |
| 7/31/2016  | 4.52               | 2.98                 | 0.66                  |                          | 23.48            | 26.42              | 0.00              | 0.000 | 0.000   |
| 8/31/2016  | 3.85               | 3.04                 | 0.79                  |                          | 23.60            | 26.51              | 0.00              | 0.000 | 0.000   |
| 9/30/2016  | 4.21               | 3.44                 | 0.82                  |                          | 23.72            | 26.61              | 0.00              | 0.000 | 0.000   |
| 10/31/2016 | 3.98               | 3.51                 | 0.88                  |                          | 23.85            | 26.72              | 0.00              | 0.000 | 0.000   |
| 11/30/2016 | 4.28               | 3.40                 | 0.79                  |                          | 23.97            | 26.82              | 0.00              | 0.000 | 0.000   |
| 12/31/2016 | 4.06               | 3.40                 | 0.84                  |                          | 24.10            | 26.93              | 0.00              | 0.000 | 0.000   |