

Waskada Unit No. 18
Waterflood Progress Report 2016
January 1st through December 31st 2016

Prepared for:
Manitoba Industry, Economic Development and Mines
Petroleum Branch

Prepared by:
Tundra Oil and Gas Partnership
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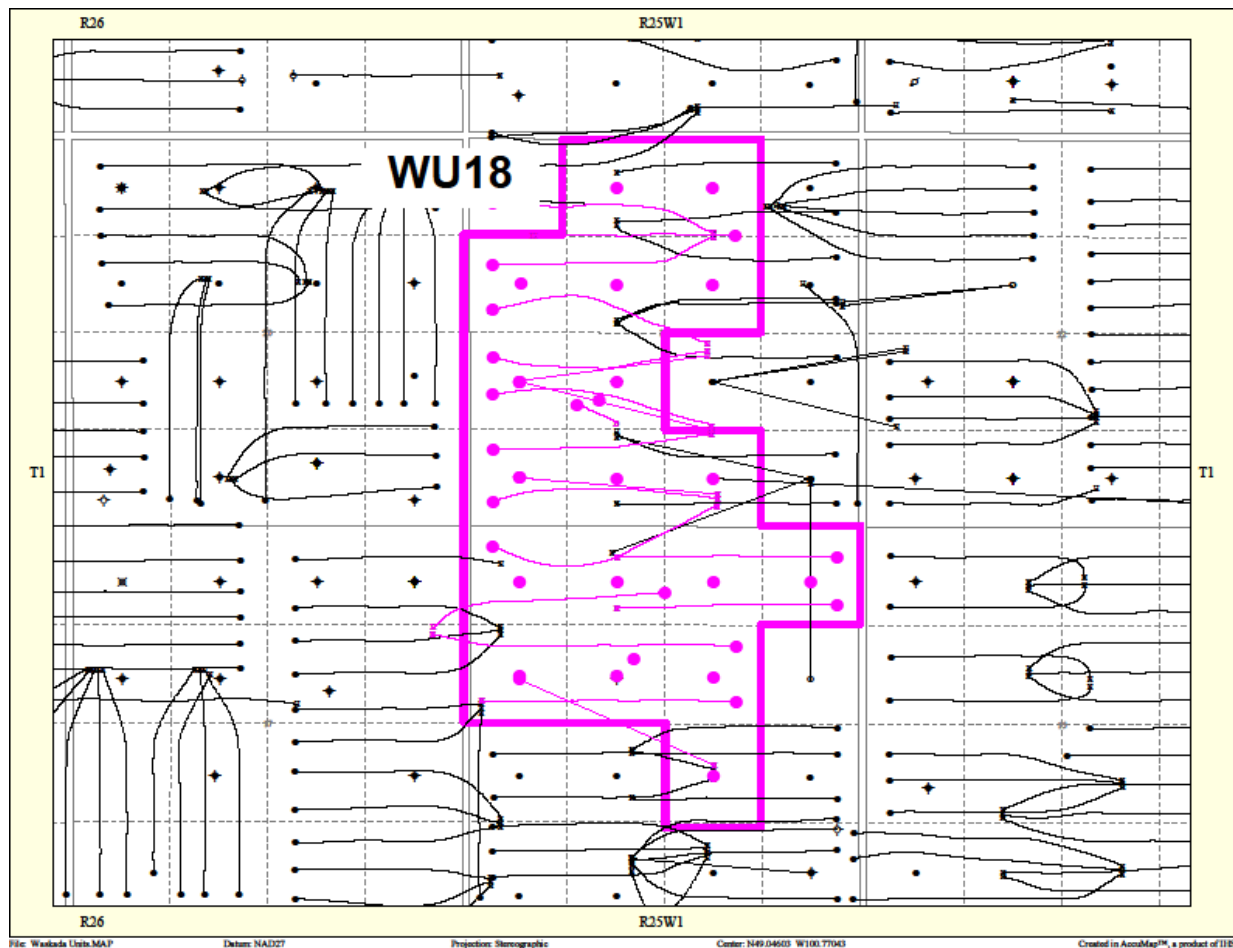
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INTRODUCTION

The Waskada Unit No. 18 pressure maintenance project commenced water injection into the Lower Amaranth A pool in accordance with Manitoba Energy and Mines Order No. PM 68, dated October 1, 1991. Waskada Unit No. 18 was acquired from EOG Resources Canada Inc. effective October 1, 2014 (closing date December 1, 2014) with Tundra Oil and Gas (Tundra) as the new operator. THE EOR project area, outlined in pink in **Figure 1**, contains 35 wells over 18 LSDs in Township 1, Range 25W1 (**Table 1**).

Figure 1: Waskada Unit No. 18 Area Outline



PRODUCTION HISTORY

For the wells included in Waskada Unit No. 18, production started in November 1989 with the 02/11-16-001-25W1/00 well. From 1989 – 1991, 18 wells were drilled. Oil production peaked at 47.56 m³/d in March 1991. From 2007-2011, 14 new producers were added to the unit, resulting in a peak in oil production of 190.73 m³/d in January 2011. There are currently 23 producing wells in Waskada Unit No. 18. The average production for the unit was 5.06 m³/d of oil and 11.17 m³/d of water and the average WOR 2.21 m³/m³ at the end of December 2016 (Table 4). The rates and WOR are presented in Figure 2.

Figure 2: Waskada Unit No. 18 Production/Injection Rates and WOR vs Time

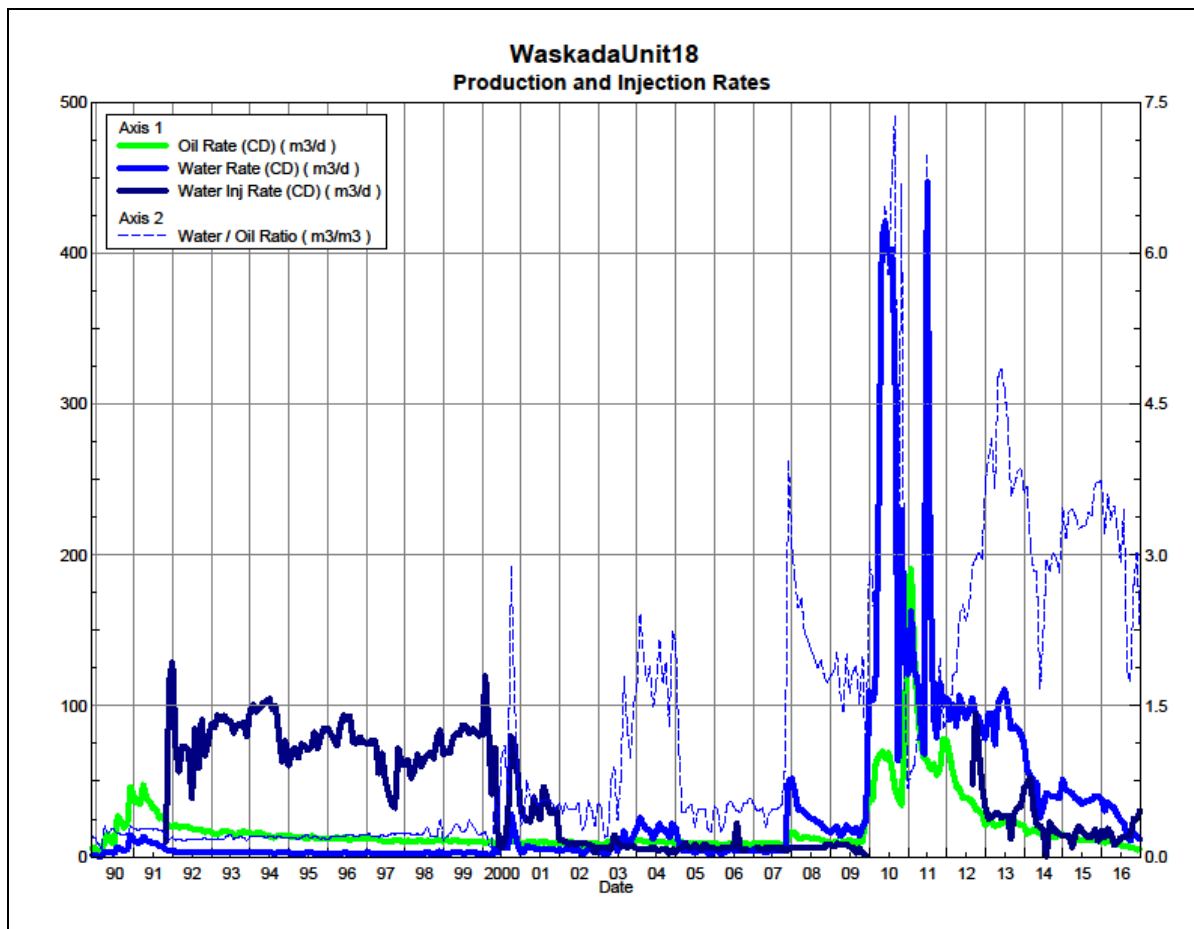
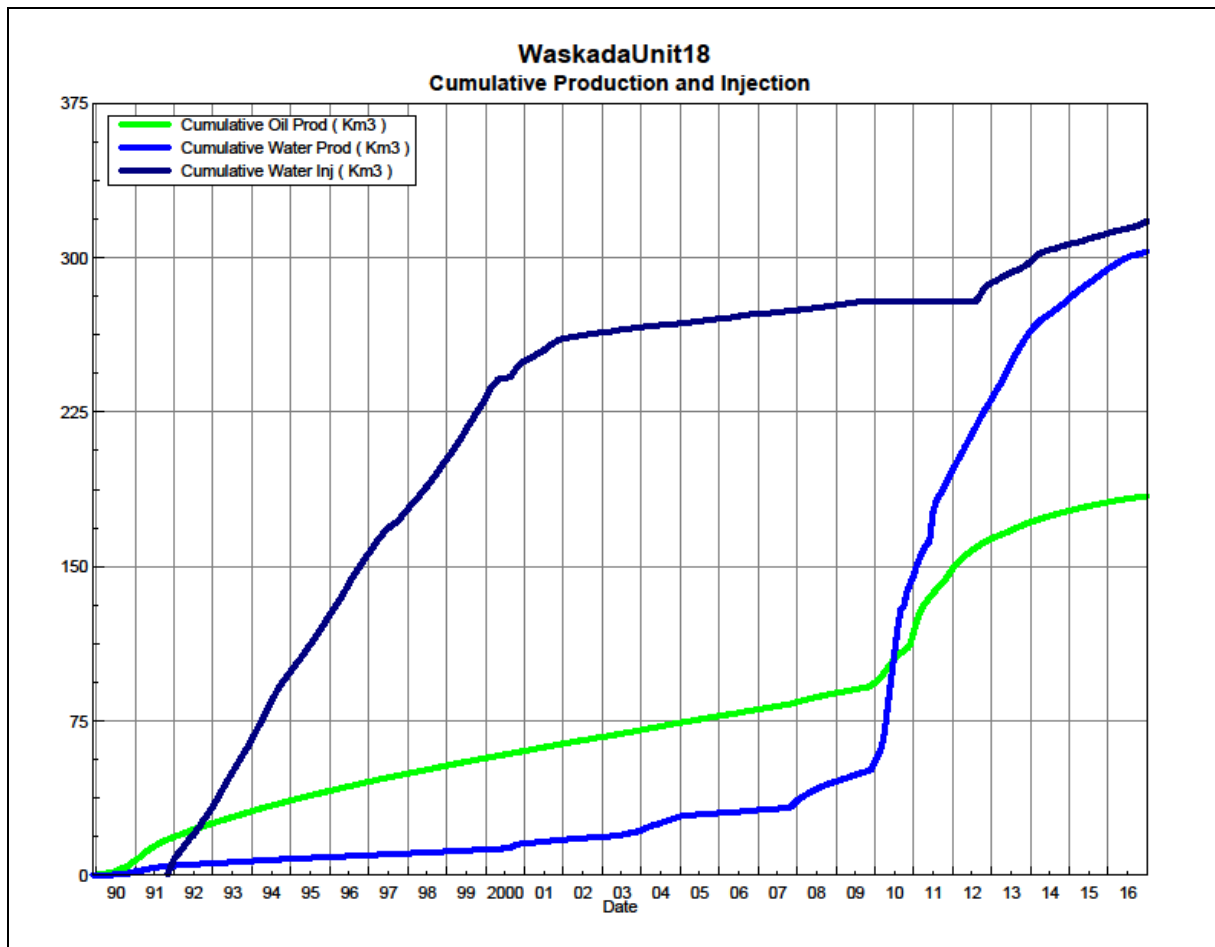


Figure 3 shows the cumulative production for Waskada Unit No. 18 to the end of December 2016 as 184.1 e³m³ of oil, and 302.8 e³m³ of water. The cumulative water injected is over 317.9 e³m³.

Figure 3. Waskada Unit No. 18 Cumulative Oil, Water and Water Injected vs. Time



WATERFLOOD HISTORY

Water injection commenced with 4 injector wells on October 1991. Two more injectors were added in March 2001. In 2011, EOG received permission to convert 3 Spearfish injection wells into Mississippian SWD wells. As of the end of December 2016, there is 3 active Spearfish injection wells.

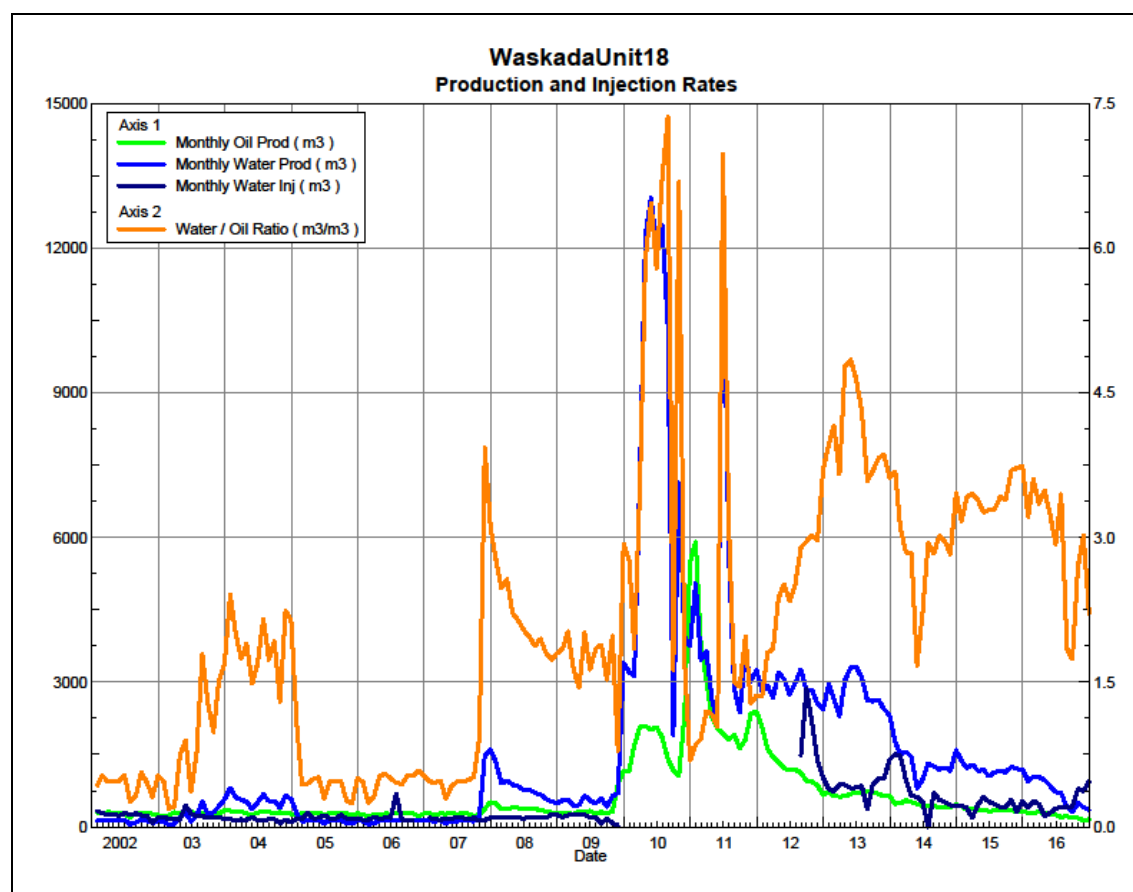
Any future revisions to the waterflood development or surveillance plan would be based on new production or performance response data, technical studies or observed reservoir behavior and reserves recovery interpretations.

WATERFLOOD PERFORMANCE

From January 1 to December 31 in 2016, Waskada Unit No. 18 produced 11,013 m³ of total fluids (2,765 m³ oil, 8,249 m³ water), and injected 6,038 m³ of source water, giving an annual oil and water voidage replacement ratio (VRR) of 0.528 for this reporting period. The cumulative VRR since injection commenced in May 1987 is presently at 0.599. **Table 2** summarizes the yearly and cumulative VRR for Waskada Unit No. 18.

When water injection commenced in 1991, there was no effect on production. In 2002, water injection rates fell off sharply as wellhead injection pressures increased. In 2009, the amount of water that could be injected vertically was insignificant. Injection was halted in 2010. In 2011, EOG received permission to convert 3 of the Spearfish injection wells to Mississippian disposal wells. The wells converted were 00/10-21, 00/15-16 and 03/11-16-001-25W1. In August 2012, EOG converted the 02/12-21-001-25W1 horizontal producer to an injection well to observe if horizontal injection is more effective than vertical injection at increasing production.

Figure 4. Waskada Unit No. 18 Production and Injection Rates From 2002-2016



INJECTION WELLHEAD PRESSURES

Individual injection pressure averages for 2016 can be found in **Table 5**.

RESERVOIR PRESSURE

There have been no pressure surveys done on the reservoir.

Gas volumes from the field are measured at the 15-9-2-25W1M battery. There is no individual well gas volume measurement. It is not possible to separate out the gas production from only the wells in Unit 16, so the effectiveness of the pressure maintenance program cannot be evaluated on the GOR.

WELL SERVICING

The following table summarizes the maintenance done on the Waskada Unit No. 18 wells in 2016:

| UWI | Date | Workover |
|-----------------------|-------------|---|
| 102.05-21-001-25W1.00 | 22-Aug-16 | Pump Change |
| 102.12-21-001-25W1.00 | 28-Aug-16 | Cemented Liner Cleanout +Repair Failed Injection Packer |

CORROSION AND SCALE PREVENTION

The facilities in Unit 18 are currently using cathodic protection and chemicals to protect against corrosion and scale. All facilities are monitored every 3 months to assess the corrosion and ensure that proper electrical current is being supplied. There have been no issues with corrosion or scale to date.

Biocide chemical is added to the injection water to prevent any sulfide producing bacteria from forming.

CONCLUSION

The current pressure maintenance program is having little effect on oil production in Waskada Unit No. 18. Tundra will maintain the current pressure maintenance program, and continue to monitor production and pressure performance. Plans for future injection conversions and acid treatments to improve unit performance are being considered for 2017.

TABLE NO. 1: WASKADA UNIT NO. 18 WELL SUMMARY

| UWI | Type | Status | On Prod Date | Cum Prd Oil (m3) | Cum Prd Water (m3) | Last Prod Date | On Inj Date | Cum Inj Water (m3) | Last Inj Date |
|----------------------|------------|-----------|--------------|------------------|--------------------|----------------|-------------|--------------------|---------------|
| 100/07-16-001-25W1/0 | Vertical | Pumping | 7/1/1990 | 6,851 | 404 | 5/31/2012 | | 0 | |
| 100/10-16-001-25W1/0 | Vertical | Producing | 11/1/1990 | 8,853 | 918 | 7/31/2016 | | 0 | |
| 102/10-16-001-25W1/0 | Horizontal | Producing | 11/1/2009 | 10,329 | 13,065 | 9/30/2016 | | 0 | |
| 103/10-16-001-25W1/0 | Horizontal | Producing | 2/1/2010 | 9,314 | 28,421 | 12/31/2016 | | 0 | |
| 102/11-16-001-25W1/0 | Vertical | Abandoned | 11/1/1989 | 1,894 | 236 | 9/30/1991 | 10/1/1991 | 75,629 | 6/30/2006 |
| 103/11-16-001-25W1/0 | Vertical | SWD | N/A | 0 | 0 | | 3/1/2001 | 3,768 | 6/30/2009 |
| 100/12-16-001-25W1/0 | Vertical | Producing | 11/1/1990 | 4,999 | 876 | 8/31/2012 | | 0 | |
| 100/13-16-001-25W1/0 | Vertical | Producing | 2/1/1991 | 4,298 | 3,604 | 12/31/2016 | | 0 | |
| 102/13-16-001-25W1/0 | Horizontal | Potential | 11/1/2010 | 6,025 | 13,449 | 12/31/2016 | | 0 | |
| 100/14-16-001-25W1/0 | Vertical | Pumping | 7/1/1990 | 6,725 | 1,051 | 1/31/2015 | | 0 | |
| 102/14-16-001-25W1/0 | Horizontal | Producing | 11/1/2011 | 5,080 | 2,815 | 12/31/2016 | | 0 | |
| 100/15-16-001-25W1/0 | Vertical | SWD | 3/1/1990 | 1,462 | 591 | 10/31/1991 | 10/1/1991 | 61,938 | 9/30/2009 |
| 100/16-16-001-25W1/0 | Vertical | Pumping | 2/1/1991 | 5,793 | 15,758 | 12/31/2016 | | 0 | |
| 102/16-16-001-25W1/0 | Horizontal | Suspended | 12/1/2009 | 1,102 | 77,371 | 7/31/2011 | | 0 | |
| 103/16-16-001-25W1/0 | Horizontal | Producing | 10/1/2009 | 8,728 | 49,929 | 11/30/2016 | | 0 | |
| 100/02-21-001-25W1/0 | Vertical | Pumping | 7/1/1990 | 6,701 | 608 | 9/30/2016 | | 0 | |
| 100/03-21-001-25W1/0 | Vertical | Producing | 3/1/1990 | 9,422 | 7,896 | 12/31/2016 | | 0 | |
| 100/04-21-001-25W1/0 | Vertical | Abandoned | 10/1/1990 | 3,219 | 2,477 | 11/30/2000 | | 0 | |
| 102/04-21-001-25W1/0 | Horizontal | Producing | 11/1/2010 | 6,737 | 3,232 | 12/31/2016 | | 0 | |
| 103/04-21-001-25W1/0 | Horizontal | Producing | 12/1/2010 | 5,526 | 16,540 | 12/31/2016 | | 0 | |
| 100/05-21-001-25W1/0 | Vertical | Producing | 2/1/1991 | 7,582 | 2,651 | 12/31/2016 | | 0 | |
| 102/05-21-001-25W1/0 | Horizontal | Producing | 12/1/2010 | 7,239 | 10,822 | 12/31/2016 | | 0 | |
| 103/05-21-001-25W1/0 | Horizontal | Producing | 12/1/2010 | 6,261 | 2,189 | 12/31/2016 | | 0 | |
| 100/06-21-001-25W1/0 | Vertical | Abandoned | 11/1/1990 | 501 | 216 | 10/31/1991 | 10/1/1991 | 74,313 | 3/31/2001 |
| 102/06-21-001-25W1/0 | Vertical | Abandoned | N/A | 0 | 0 | | 3/1/2001 | 3,055 | 11/30/2001 |
| 103/06-21-001-25W1/0 | Dir/Dev | SWD | N/A | 0 | 0 | | | 0 | |
| 100/10-21-001-25W1/0 | Vertical | SWD | 10/1/1990 | 841 | 210 | 10/31/1991 | 10/1/1991 | 60,103 | 11/30/2009 |
| 100/11-21-001-25W1/0 | Vertical | Pumping | 7/1/1990 | 6,734 | 1,334 | 1/31/2016 | | 0 | |
| 100/12-21-001-25W1/0 | Vertical | Pumping | 10/1/1990 | 7,845 | 3,608 | 12/31/2016 | | 0 | |
| 102/12-21-001-25W1/0 | Horizontal | Injection | 12/1/2010 | 3,785 | 1,275 | 3/31/2012 | 8/1/2012 | 33,520 | 12/31/2016 |
| 103/12-21-001-25W1/0 | Horizontal | Producing | 12/1/2010 | 5,908 | 1,695 | 12/31/2016 | | 0 | |
| 102/13-21-001-25W1/2 | Horizontal | Producing | 12/1/2010 | 3,722 | 1,790 | 12/31/2016 | | 0 | |
| 100/14-21-001-25W1/0 | Vertical | Injection | 3/1/1991 | 8,916 | 1,115 | 3/31/2015 | | 2,242 | 12/31/2016 |
| 100/15-21-001-25W1/0 | Vertical | Injection | 11/1/1990 | 6,363 | 751 | 2/28/2013 | | 3,313 | 12/31/2016 |
| 102/15-21-001-25W1/0 | Horizontal | Producing | 10/1/2007 | 5,318 | 35,910 | 7/31/2013 | | 0 | |
| | | | | 184,072 | 302,805 | | | | |
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TABLE NO. 2 - Waskada Unit No. 18 VRR Calculations

| Date | Monthly Oil Prod m3 | Cum Oil Prod Km3 | Monthly Water Prod m3 | Cum Water Prod Km3 | Water Oil Ratio m3/m3 | Monthly Water Inj m3 | Cum Water Inj Km3 | VRR | Cum VRR |
|------|------------------------|------------------|-----------------------|-----------------------|--------------------------|-------------------------|----------------------|-------|---------|
| 1989 | 339 | 0.339 | 66 | 0.066 | 0.19 | 0 | 0.000 | 0.000 | 0.000 |
| 1990 | 6,979 | 7.318 | 1,784 | 1.850 | 0.26 | 0 | 0.000 | 0.000 | 0.000 |
| 1991 | 11,355 | 18.673 | 2,943 | 4.793 | 0.26 | 7,816 | 7.816 | 0.488 | 0.298 |
| 1992 | 6,805 | 25.477 | 1,169 | 5.962 | 0.17 | 25,867 | 33.683 | 2.876 | 0.955 |
| 1993 | 5,779 | 31.256 | 1,087 | 7.049 | 0.19 | 32,427 | 66.109 | 4.194 | 1.538 |
| 1994 | 5,221 | 36.478 | 1,032 | 8.081 | 0.20 | 32,903 | 99.013 | 4.676 | 1.979 |
| 1995 | 4,618 | 41.096 | 875 | 8.956 | 0.19 | 27,508 | 126.520 | 4.447 | 2.251 |
| 1996 | 4,438 | 45.534 | 920 | 9.877 | 0.21 | 29,853 | 156.373 | 4.955 | 2.512 |
| 1997 | 3,981 | 49.515 | 868 | 10.745 | 0.22 | 21,457 | 177.831 | 3.940 | 2.627 |
| 1998 | 3,820 | 53.335 | 886 | 11.630 | 0.23 | 24,241 | 202.071 | 4.592 | 2.769 |
| 1999 | 3,685 | 57.020 | 989 | 12.620 | 0.27 | 29,328 | 231.399 | 5.610 | 2.959 |
| 2000 | 3,465 | 60.485 | 2,836 | 15.456 | 0.82 | 18,424 | 249.823 | 2.701 | 2.939 |
| 2001 | 3,491 | 63.976 | 1,927 | 17.383 | 0.55 | 10,860 | 260.683 | 1.828 | 2.866 |
| 2002 | 3,290 | 67.266 | 1,486 | 18.868 | 0.45 | 2,940 | 263.623 | 0.558 | 2.740 |
| 2003 | 3,371 | 70.638 | 3,130 | 21.998 | 0.93 | 2,633 | 266.256 | 0.376 | 2.579 |
| 2004 | 3,543 | 74.180 | 6,738 | 28.737 | 1.90 | 1,707 | 267.962 | 0.158 | 2.350 |
| 2005 | 3,297 | 77.477 | 1,561 | 30.297 | 0.47 | 2,344 | 270.306 | 0.438 | 2.264 |
| 2006 | 3,135 | 80.612 | 1,492 | 31.789 | 0.48 | 2,155 | 272.461 | 0.423 | 2.189 |
| 2007 | 3,555 | 84.167 | 4,409 | 36.198 | 1.24 | 2,023 | 274.484 | 0.238 | 2.064 |
| 2008 | 4,386 | 88.552 | 9,403 | 45.601 | 2.14 | 2,398 | 276.882 | 0.166 | 1.878 |
| 2009 | 5,031 | 93.584 | 9,428 | 55.029 | 1.87 | 1,924 | 278.805 | 0.126 | 1.714 |
| 2010 | 24,369 | 117.952 | 90,614 | 145.643 | 3.72 | 0 | 278.805 | 0.000 | 0.991 |
| 2011 | 30,880 | 148.833 | 51,152 | 196.796 | 1.66 | 0 | 278.805 | 0.000 | 0.749 |
| 2012 | 14,610 | 163.443 | 34,324 | 231.120 | 2.35 | 8,927 | 287.733 | 0.154 | 0.669 |
| 2013 | 8,167 | 171.609 | 33,303 | 264.422 | 4.08 | 10,382 | 298.115 | 0.220 | 0.624 |
| 2014 | 5,520 | 177.129 | 15,814 | 280.236 | 2.86 | 8,407 | 306.522 | 0.367 | 0.613 |
| 2015 | 4,178 | 181.310 | 14,320 | 294.556 | 3.43 | 5,321 | 311.843 | 0.278 | 0.600 |
| 2016 | 2,765 | 184.072 | 8,249 | 302.805 | 2.98 | 6,038 | 317.881 | 0.528 | 0.599 |

TABLE NO. 3

**Tundra Oil and Gas
Waskada Unit No. 18
2016 Injection Volumes**

| Well Location | Date | Hours On | H ₂ O Inj Cal-d avg (m ³ /d) | Monthly Injected H ₂ O (m ³) |
|---------------------------|--------|----------|--|---|
| Unit No. 18 Total: | | | | |
| | Jan-16 | 0 | 12.9 | 400 |
| | Feb-16 | 0 | 18.7 | 542 |
| | Mar-16 | 0 | 15.2 | 471 |
| | Apr-16 | 0 | 7.7 | 230 |
| | May-16 | 0 | 9.4 | 292 |
| | Jun-16 | 0 | 12.6 | 377 |
| | Jul-16 | 0 | 13.2 | 410 |
| | Aug-16 | 0 | 13.6 | 423 |
| | Sep-16 | 0 | 13.9 | 417 |
| | Oct-16 | 0 | 25.3 | 785 |
| | Nov-16 | 0 | 24.8 | 745 |
| | Dec-16 | 0 | 30.5 | 946 |
| 2016 Group Totals: | | | | 6,038 |
| Unit No. 18 Total: | | | | |
| | 1989 | 0 | 0.0 | |
| | 1990 | 0 | 0.0 | |
| | 1991 | 0 | 21.4 | 7,816 |
| | 1992 | 0 | 70.9 | 25,867 |
| | 1993 | 0 | 88.8 | 32,427 |
| | 1994 | 0 | 90.1 | 32,903 |
| | 1995 | 0 | 75.4 | 27,508 |
| | 1996 | 0 | 81.8 | 29,853 |
| | 1997 | 0 | 58.8 | 21,457 |
| | 1998 | 0 | 66.4 | 24,241 |
| | 1999 | 0 | 80.3 | 29,328 |
| | 2000 | 0 | 50.5 | 18,424 |
| | 2001 | 0 | 29.8 | 10,860 |
| | 2002 | 0 | 8.1 | 2,940 |
| | 2003 | 0 | 7.2 | 2,633 |
| | 2004 | 0 | 4.7 | 1,707 |
| | 2005 | 0 | 6.4 | 2,344 |
| | 2006 | 0 | 5.9 | 2,155 |
| | 2007 | 0 | 5.5 | 2,023 |
| | 2008 | 0 | 6.6 | 2,398 |
| | 2009 | 0 | 5.3 | 1,924 |
| | 2010 | 0 | 0.0 | 0 |
| | 2011 | 0 | 0.0 | 0 |
| | 2012 | 0 | 24.4 | 8,927 |
| | 2013 | 0 | 28.4 | 10,382 |
| | 2014 | 0 | 23.2 | 8,407 |
| | 2015 | 0 | 14.6 | 5,321 |
| | 2016 | 0 | 16.5 | 6,038 |
| Group Totals: | | | | 317,881 |

TABLE NO. 4

**Tundra Oil and Gas
Waskada Unit No. 18
2016 Production Volumes**

| Date | Hours On | Oil Rate (CD) m3/d | Monthly Oil Prod m3 | Water Rate (CD) m3/d | Monthly Water Prod m3 | Water Oil Ratio m3/m3 | Well Count |
|--------|----------|-----------------------|------------------------|-------------------------|--------------------------|--------------------------|------------|
| Jan-16 | 11,856 | 9.45 | 293 | 30.38 | 942 | 3.21 | 16 |
| Feb-16 | 11,136 | 10.02 | 291 | 36.10 | 1,047 | 3.60 | 16 |
| Mar-16 | 11,784 | 9.96 | 309 | 33.39 | 1,035 | 3.35 | 16 |
| Apr-16 | 11,184 | 9.27 | 278 | 32.31 | 969 | 3.49 | 16 |
| May-16 | 11,736 | 8.51 | 264 | 27.55 | 854 | 3.24 | 16 |
| Jun-16 | 10,728 | 8.29 | 249 | 24.27 | 728 | 2.93 | 15 |
| Jul-16 | 10,680 | 6.52 | 202 | 22.48 | 697 | 3.45 | 14 |
| Aug-16 | 10,728 | 7.16 | 222 | 13.24 | 411 | 1.85 | 14 |
| Sep-16 | 9,696 | 6.09 | 183 | 10.59 | 318 | 1.74 | 13 |
| Oct-16 | 10,560 | 5.92 | 184 | 15.97 | 495 | 2.70 | 14 |
| Nov-16 | 8,592 | 4.48 | 135 | 13.55 | 406 | 3.02 | 12 |
| Dec-16 | 9,888 | 5.06 | 157 | 11.17 | 346 | 2.21 | 13 |
| | 128,568 | | 2,765 | | 8,249 | | |

| Date | Hours On | Oil Rate (CD) m3/d | Monthly Oil Prod m3 | Water Rate (CD) m3/d | Monthly Water Prod m3 | Water Oil Ratio m3/m3 | Well Count |
|------|-----------|-----------------------|------------------------|-------------------------|--------------------------|--------------------------|------------|
| 1989 | 1,296 | 0.93 | 339 | 0.18 | 66 | 0.19 | 1 |
| 1990 | 46,848 | 19.12 | 6,979 | 4.89 | 1,784 | 0.26 | 6 |
| 1991 | 141,504 | 31.11 | 11,355 | 8.06 | 2,943 | 0.26 | 17 |
| 1992 | 121,032 | 18.64 | 6,805 | 3.20 | 1,169 | 0.17 | 14 |
| 1993 | 118,320 | 15.83 | 5,779 | 2.98 | 1,087 | 0.19 | 14 |
| 1994 | 118,704 | 14.30 | 5,221 | 2.83 | 1,032 | 0.20 | 14 |
| 1995 | 117,072 | 12.65 | 4,618 | 2.40 | 875 | 0.19 | 14 |
| 1996 | 120,240 | 12.16 | 4,438 | 2.52 | 920 | 0.21 | 14 |
| 1997 | 119,712 | 10.91 | 3,981 | 2.38 | 868 | 0.22 | 14 |
| 1998 | 120,360 | 10.47 | 3,820 | 2.43 | 886 | 0.23 | 14 |
| 1999 | 116,472 | 10.10 | 3,685 | 2.71 | 989 | 0.27 | 14 |
| 2000 | 114,096 | 9.49 | 3,465 | 7.77 | 2,836 | 0.82 | 14 |
| 2001 | 110,280 | 9.56 | 3,491 | 5.28 | 1,927 | 0.55 | 13 |
| 2002 | 107,448 | 9.01 | 3,290 | 4.07 | 1,486 | 0.45 | 13 |
| 2003 | 94,152 | 9.24 | 3,371 | 8.58 | 3,130 | 0.93 | 13 |
| 2004 | 109,944 | 9.71 | 3,543 | 18.46 | 6,738 | 1.90 | 13 |
| 2005 | 109,368 | 9.03 | 3,297 | 4.28 | 1,561 | 0.47 | 13 |
| 2006 | 107,508 | 8.59 | 3,135 | 4.09 | 1,492 | 0.48 | 13 |
| 2007 | 113,875 | 9.74 | 3,555 | 12.08 | 4,409 | 1.24 | 13 |
| 2008 | 118,440 | 12.02 | 4,386 | 25.76 | 9,403 | 2.14 | 14 |
| 2009 | 118,368 | 13.78 | 5,031 | 25.83 | 9,428 | 1.87 | 15 |
| 2010 | 146,808 | 66.76 | 24,369 | 248.26 | 90,614 | 3.72 | 19 |
| 2011 | 197,928 | 84.60 | 30,880 | 140.14 | 51,152 | 1.66 | 26 |
| 2012 | 179,232 | 39.92 | 14,610 | 93.78 | 34,324 | 2.35 | 23 |
| 2013 | 164,232 | 22.37 | 8,167 | 91.24 | 33,303 | 4.08 | 21 |
| 2014 | 161,328 | 15.12 | 5,520 | 43.32 | 15,814 | 2.86 | 21 |
| 2015 | 151,872 | 11.45 | 4,178 | 39.25 | 14,320 | 3.44 | 17 |
| 2016 | 128,568 | 7.56 | 2,765 | 22.58 | 8,249 | 2.90 | 15 |
| | 3,375,007 | | 184,072 | | 302,805 | | |

TABLE NO. 5 - Average Injection Pressures

| | 00/14-21 Inj | 00/15-21 Inj | 02/12-21 Inj |
|-------------|-----------------------|-----------------------|-----------------------|
| Year | Inj Pressure (kPa) | Inj Pressure (kPa) | Inj Pressure (kPa) |
| 2014 | 0.0 | 0.0 | 5000.0 |
| 2015 | 2795.1 | 1012.0 | 4926.4 |
| 2016 | 4660.7 | 2741.7 | 4210.3 |