

**EWART UNIT NO. 2
WATERFLOOD EOR PROJECT
ANNUAL REPORT FOR 2014**

March 23, 2015

Tundra Oil and Gas Partnership

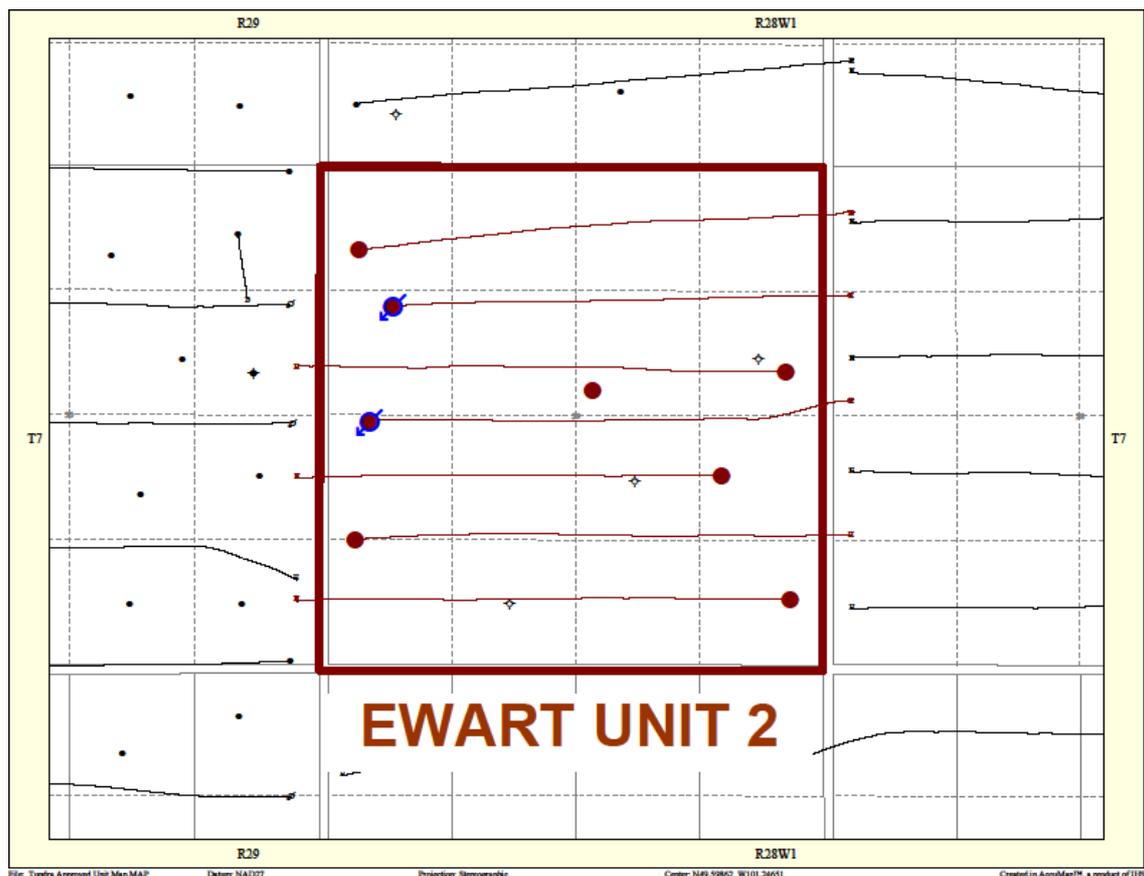
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100/05-29-007-28W1	
102/05-29-007-28W1	
100/12-29-007-28W1	

INTRODUCTION

Ewart Unit No. 2 Enhance Oil Recovery (EOR) Waterflood Project was approved under Waterflood Order No. 29 effective August 1, 2013 with Tundra Oil and Gas (Tundra) as Operator. The Unit area contains 5 producing horizontal wells, 2 horizontal injectors and 1 vertical observation well in 16 LSDs in Township 7 Range 28 W1 as shown in the figure below.

Figure 1: Ewart Unit No. 2 Area Outline



In accordance with Section 73 of the Manitoba Drilling and Production Regulation, Tundra hereby submits the following 2014 Annual Progress Report for Ewart Unit No. 2.

DISCUSSION

Production History

For the wells included in Ewart Unit No. 2, production started in August 2008 with the 00/008-29-007-28W1 well. Average oil production peaked at 13.8 m³/d per well in April of 2009. This production was coming from 3 wells and totaled 41.41 m³/d for the Unit. In December 2014, the Unit was producing 7.26 m³/d of oil and 20.22 m³/d of water. Water injection commenced in Ewart Unit No. 2 in November 2013. The rates and WOR are presented in Figure 2.

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

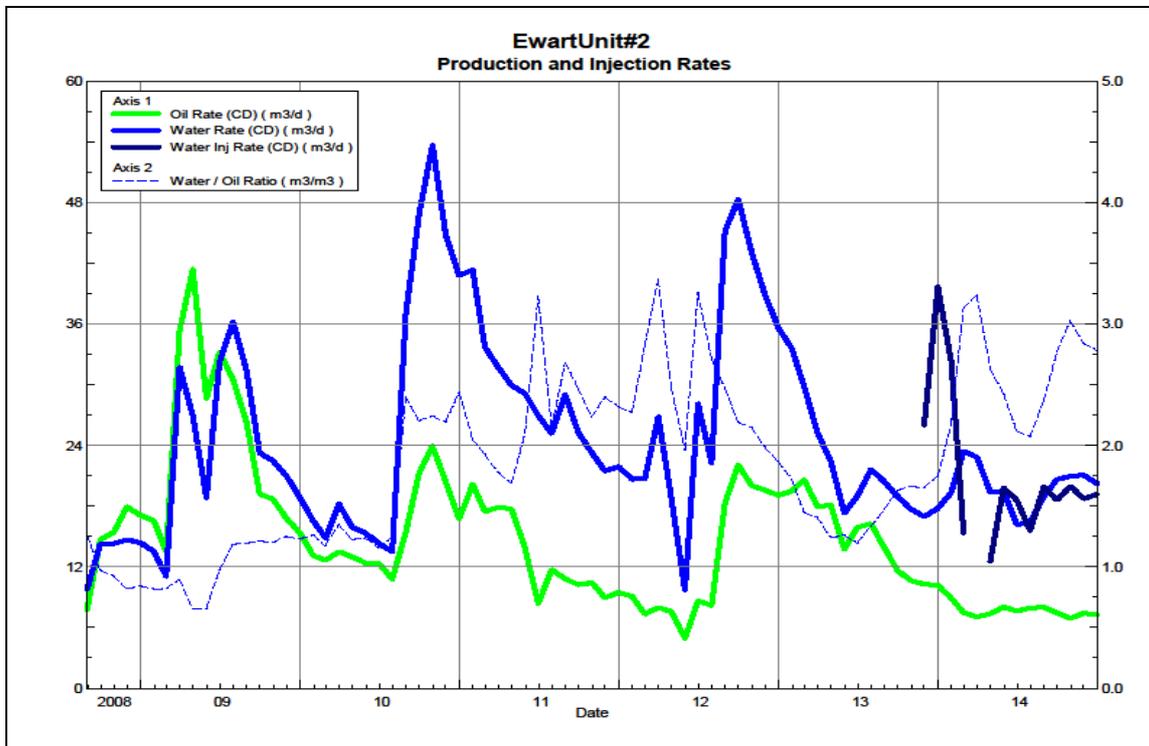
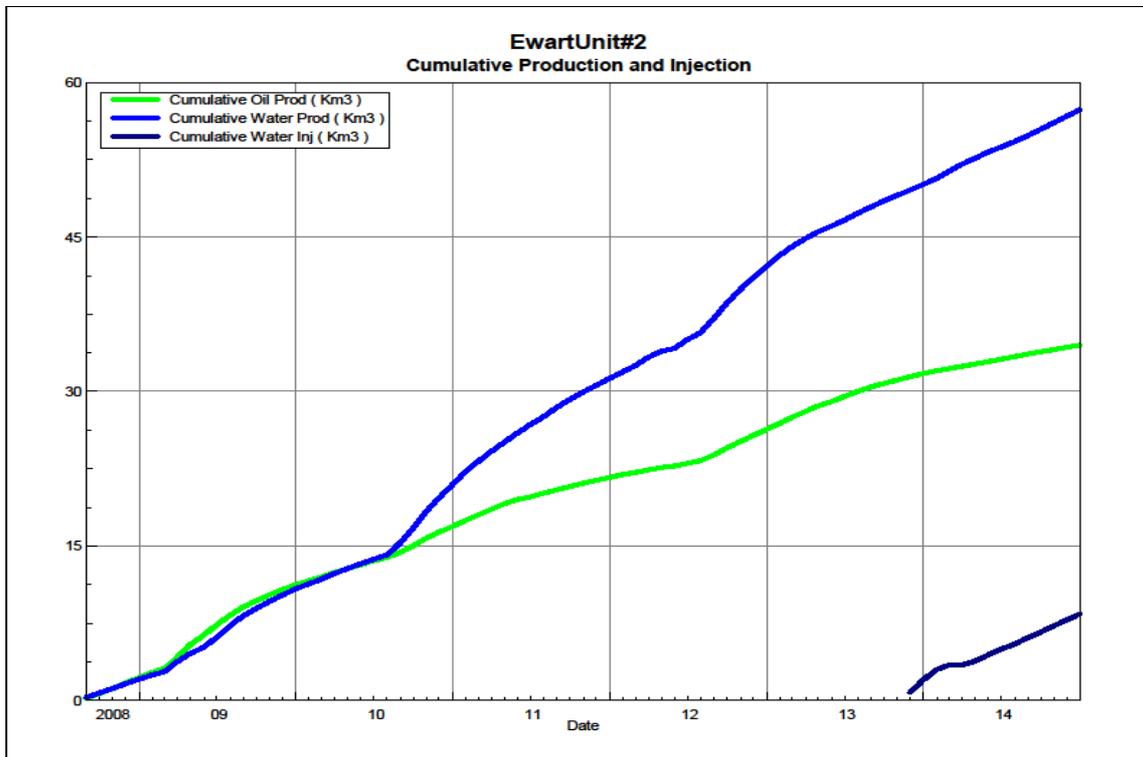


Figure 3 shows the cumulative production for Ewart Unit No. 2 to the end of December 2014 as 34.5 e³m³ of oil, and 57.4 e³m³ of water, representing an 11.9% recovery factor of the OOIP. The cumulative water injected is 8.42 e³m³.

Figure 3: Ewart Unit No. 2 Cumulative Oil, Water and Water Injected vs Time



Waterflood Development Plan

Ewart Unit No. 2 Waterflood (WF) Development Plan

Ewart Unit No. 2 is still in the development phase at the end of 2014. The three (3) proposed horizontal injection wells were drilled in 2011 between the existing horizontal producing wells, completing an effective 20 acre line drive waterflood pattern. All horizontal wells are fracture stimulated to improve the injection rates. In 2012, the proposed injectors were put on production and in November 2013, the 02/05-29 and 00/12-29-007-28W1 wells were converted to injectors. Tundra is planning to convert the 00/05-29-007-28W1 (00/05-29) producer to an injector in Q4 2015.

Production performance by injector pattern is summarized in Appendix A.

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 Ewart Unit No. 2 will be sourced from the 16-32-007-29W1 well (Lodgepole formation). The water is treated at the 03-04-008-29W1 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

Injection started in this Unit in November 2013. The average monthly wellhead injection pressure for each injector is summarized in Appendix C. Since injection in this Unit is still in the early stages, the injectors are still building up to a target injection pressure of 6300 kPaa.

Reservoir Pressure

Where practical, Tundra is committed to collecting pressure data from newly drilled injection wells. For Ewart Unit No. 2, pressure data is currently available for the 02/05-29, 00/10-29 and 00/12-29-007-28W1 locations. A summary table is presented in Appendix B. Pressures are corrected to a common datum of -450 m SS for comparison with other units in the area.

Well Servicing

Table 1 lists the maintenance that was required in Ewart Unit No. 2 in 2014.

Table 1: Service and Maintenance in Ewart Unit No. 2

02/05-29-007-28W1/0	Frac Shut-Off	11/14/2014
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Waterflood Performance Discussion

At the end of 2014, Ewart Unit No. 2 waterflood area had 2 injection patterns in place. Since water injection started in November 2013, there is no waterflood analysis that can be done at this time. Tundra currently plans to produce the 00/05-29 producer until the latter part of 2015 and then convert it to an injector.

A summary table of the injector pattern(s) is presented in Appendix A. Plots of the production and injection data along with the VRR information are presented in Appendix D for each of the injector pattern(s).

List of Appendices

Appendix A: Ewart Unit No. 2 Injection Pattern Summary

Appendix B: Ewart Unit No. 2 Reservoir Pressure Summary

Appendix C: Ewart Unit No. 2 Average Monthly Injection Pressure Summary

Appendix D: Injector Pattern Production/Injection Rates, Cumulative and VRR Plots
for the following injectors:

100/05-29-007-28W1

102/05-29-007-28W1

100/12-29-007-28W1

Appendix A

Ewart Unit No. 2 Injection Pattern Summary as of December 2014

Pattern Name	Injector BH Location (007-28W1)	Injector Surf. Location (007-28W1)	Status	No. of Supported Wells	Supported Wells (007-28W1)	Allocation Factor	Pattern Prod Start Month	Inj Start Month	Oil Rate (m ³ /d)	Water Rate (m ³ /d)	WOR (m ³ /m ³)	Water Injection (m ³ /d)	Cum Oil Water (E ^m m ³)	Cum Inj Water (E ^m m ³)	Monthly VRR	Cum VRR
00/05-29-007-28W1 Injector	00/05-29	00/05-28	Capable of Oil Production	2	01-29, 08-29	0.5	Aug 2008	-	4.1	5.8	1.43		13.6	13.3	0.0	0.00
02/05-29-007-28W1 Injector	02/05-29	00/12-28	Water Injection	2	08-29, 02/09-29	0.5	Aug 2008	Nov 2013	1.3	4.8	3.81		8.6	12.1	0.0	0.07
00/12-29-007-28W1 Injector	00/12-29	02/13-28	Water Injection	2	02/09-29, 13-29	0.5	Feb 2009	Nov 2013	0.8	5.8	7.57	19.2	5.0	18.6	2.9	0.29

APPENDIX B

Ewart Unit No. 2 - Pressure Summary

Location	Test Date	Final Pressure (kPaa)	MPP (mTVD)	KB	Datum Depth	Gradient	Pressure @ -450 masl
102/05-29-007-28W1/00	Nov 24, 2011 - June 29, 2012	5664.5	952.3	499.8	-450	8.25	5644
100/10-29-007-28W1/00	Nov 30, 2011 - Feb 8, 2012	9050.4	960.0	494.0	-450	8.25	8918
100/12-29-007-28W1/00	Nov 20 - Dec 12, 2011	8877.7	951.6	500.4	-450	8.25	8867

Appendix C

Average Monthly Injection Pressure (kPag)

Month	102/12-29
Aug-13	0
Sep-13	0
Oct-13	0
Nov-13	0
Dec-13	0
Jan-14	568
Feb-14	1057
Mar-14	1100
Apr-14	705
May-14	1234
Jun-14	1815
Jul-14	1582
Aug-14	2246
Sep-14	2477
Oct-14	2799
Nov-14	2999
Dec-14	3092

Appendix D

Rates and VRR Plots

Pattern: 00/05-29-007-28Inj Set: EwartUnit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 1.43 m3/m3

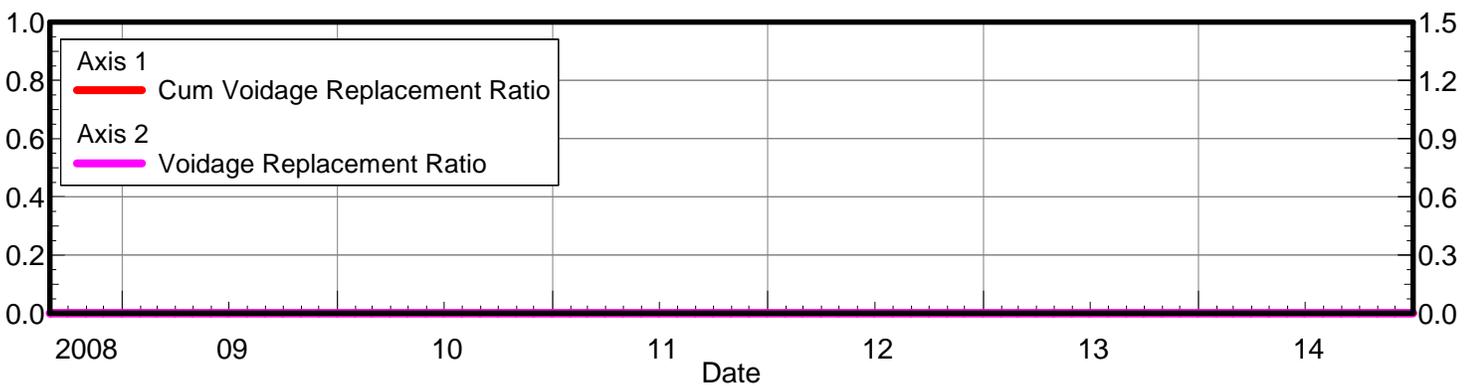
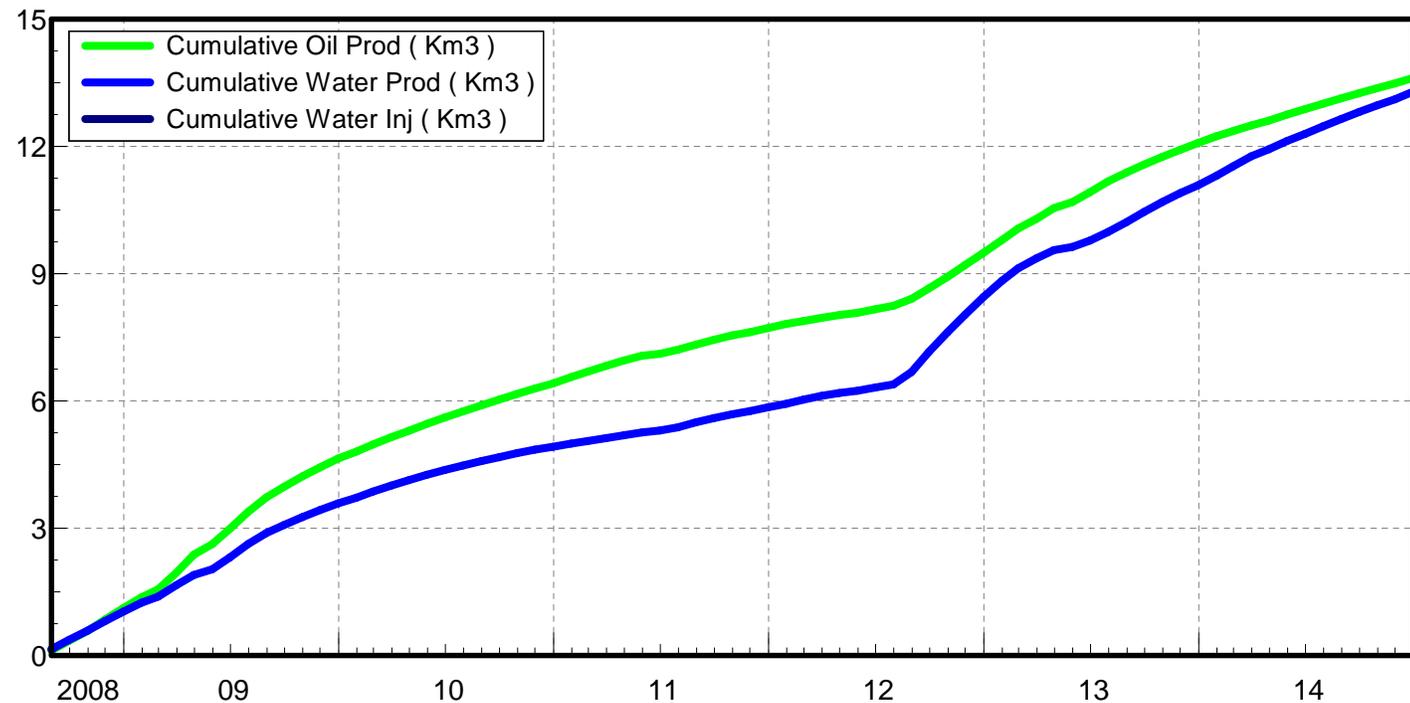
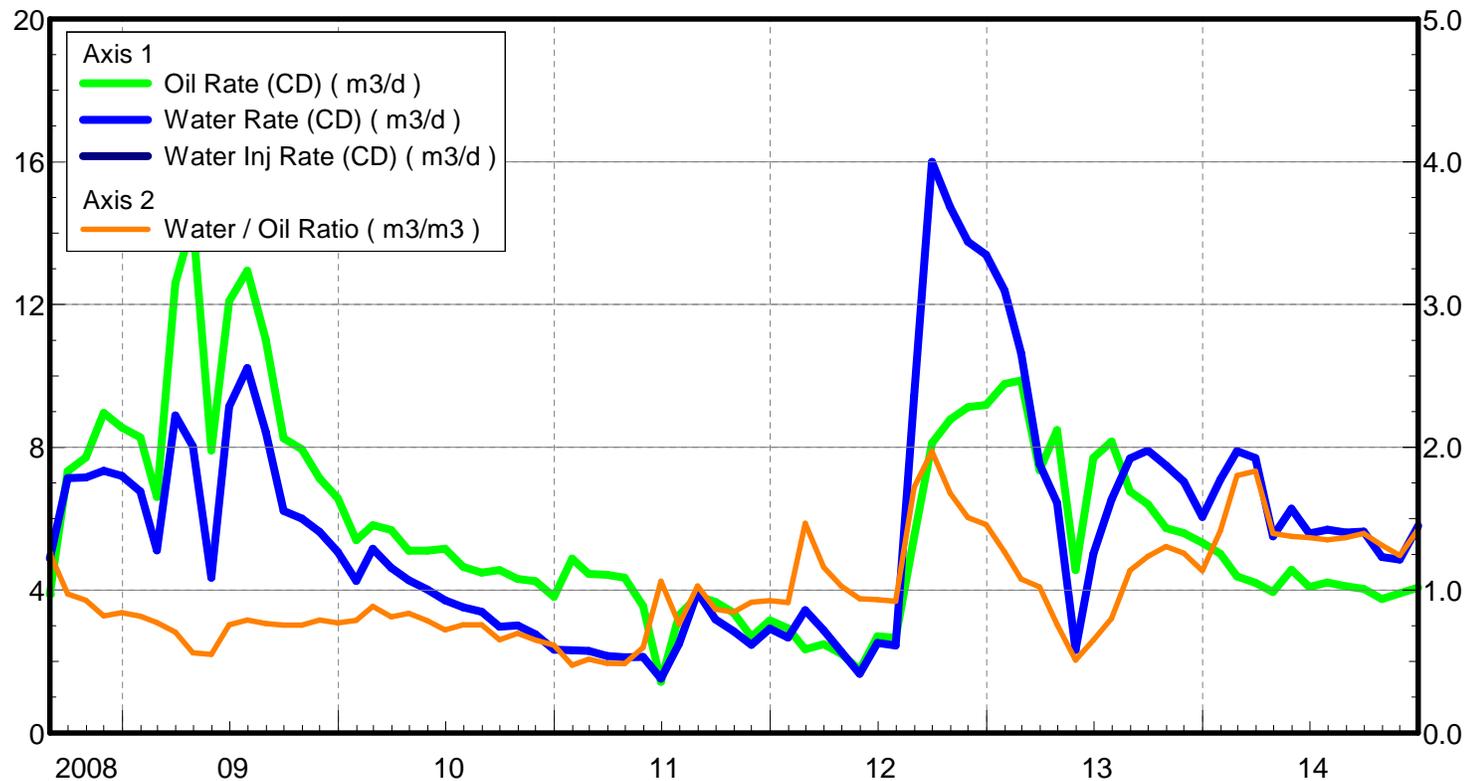
March 23, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 4.07 m3/d

Water Rate (CD) : 5.80 m3/d

Water Inj Rate (CD) : * m3/d



Pattern: 02/05-29-007-28Inj Set: EwartUnit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 3.81 m3/m3

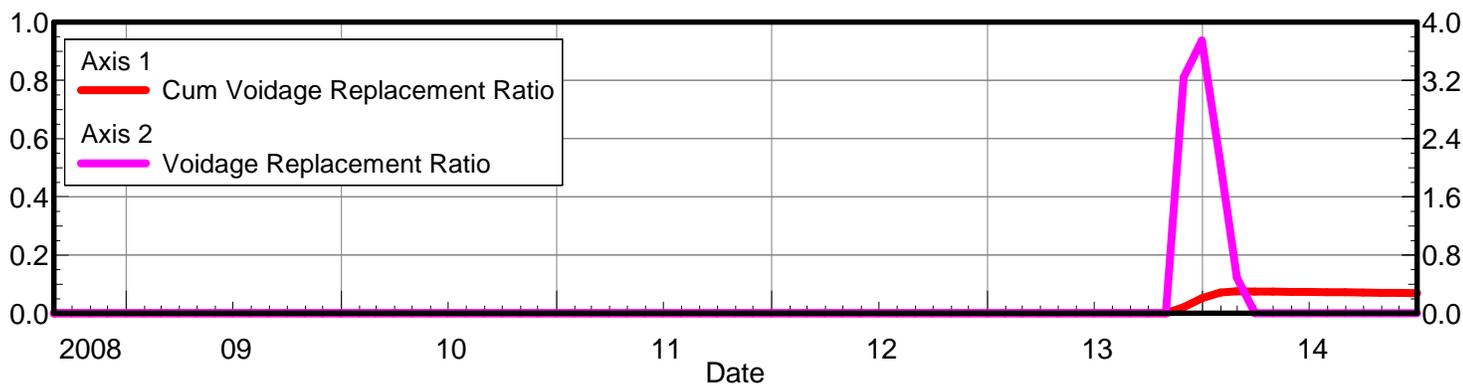
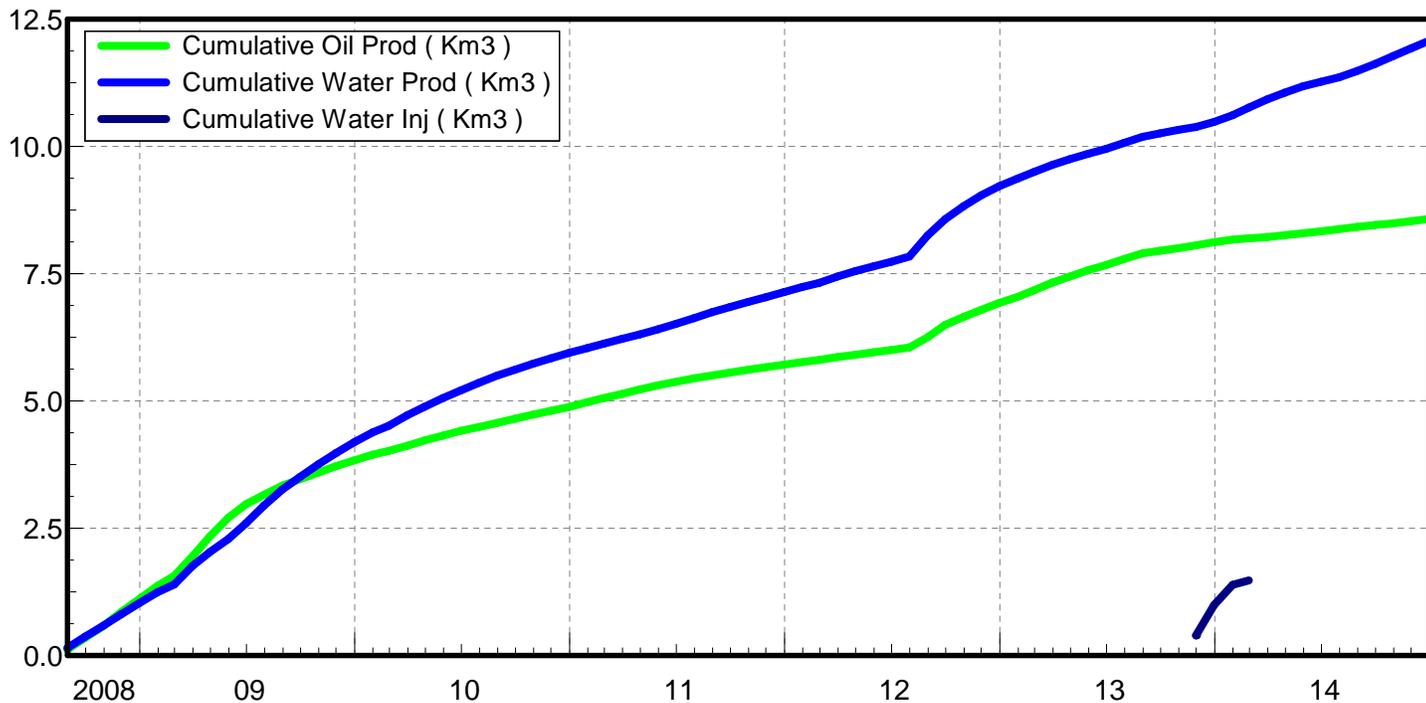
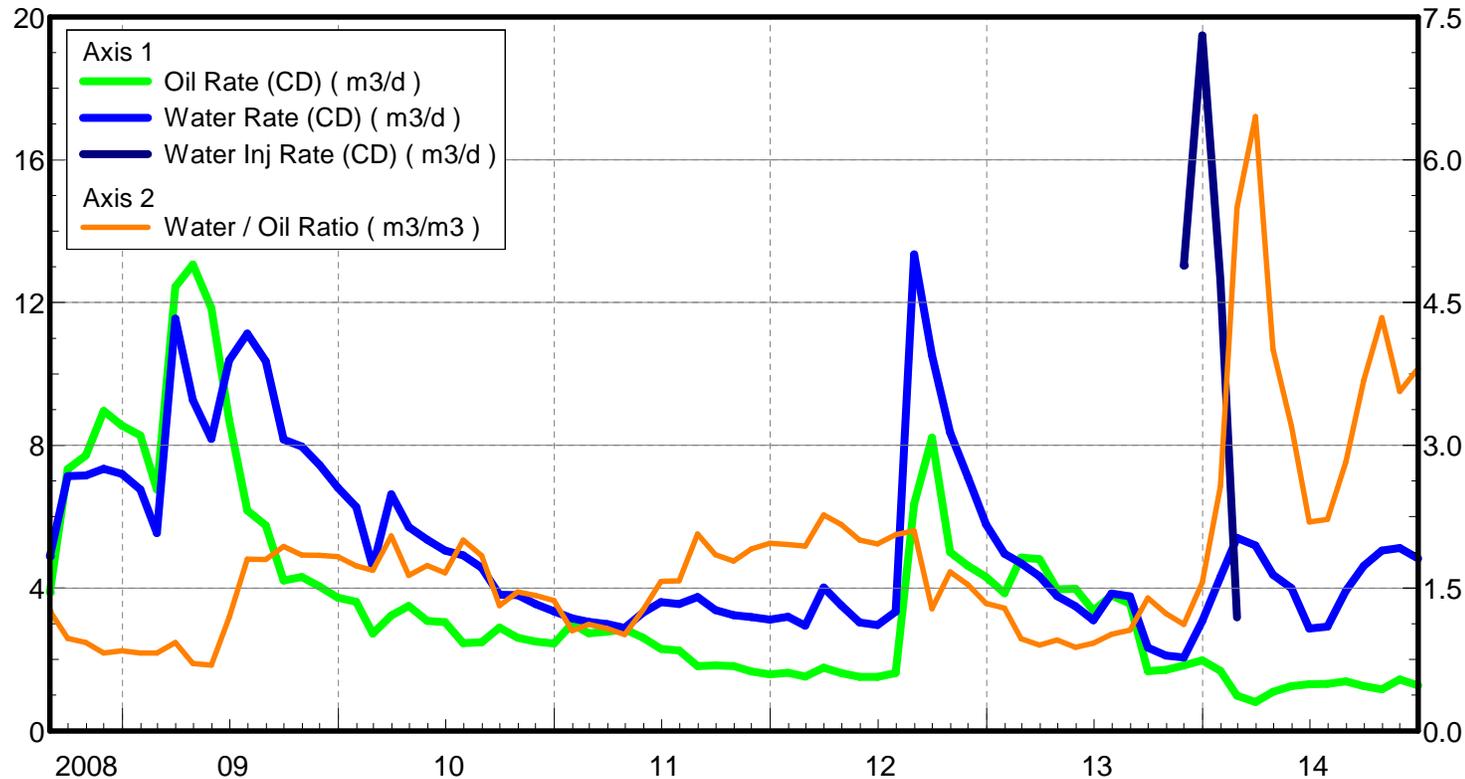
March 23, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 1.27 m3/d

Water Rate (CD) : 4.83 m3/d

Water Inj Rate (CD) : 3.18 m3/d



Pattern: 00/12-29-007-28Inj Set: EwartUnit#2

Oil Formation Vol Factor : 1.07100 m3/m3

Water Formation Vol Factor : 1.00150 m3/m3

Water / Oil Ratio : 7.57 m3/m3

March 23, 2015

Operator: Tundra_O&G_Prtshp

Oil Rate (CD) : 0.77 m3/d

Water Rate (CD) : 5.81 m3/d

Water Inj Rate (CD) : 19.16 m3/d

