

DALY UNIT NO. 11

WATERFLOOD EOR PROJECT

ANNUAL REPORT FOR 2015

June 15, 2016

Tundra Oil and Gas Partnership

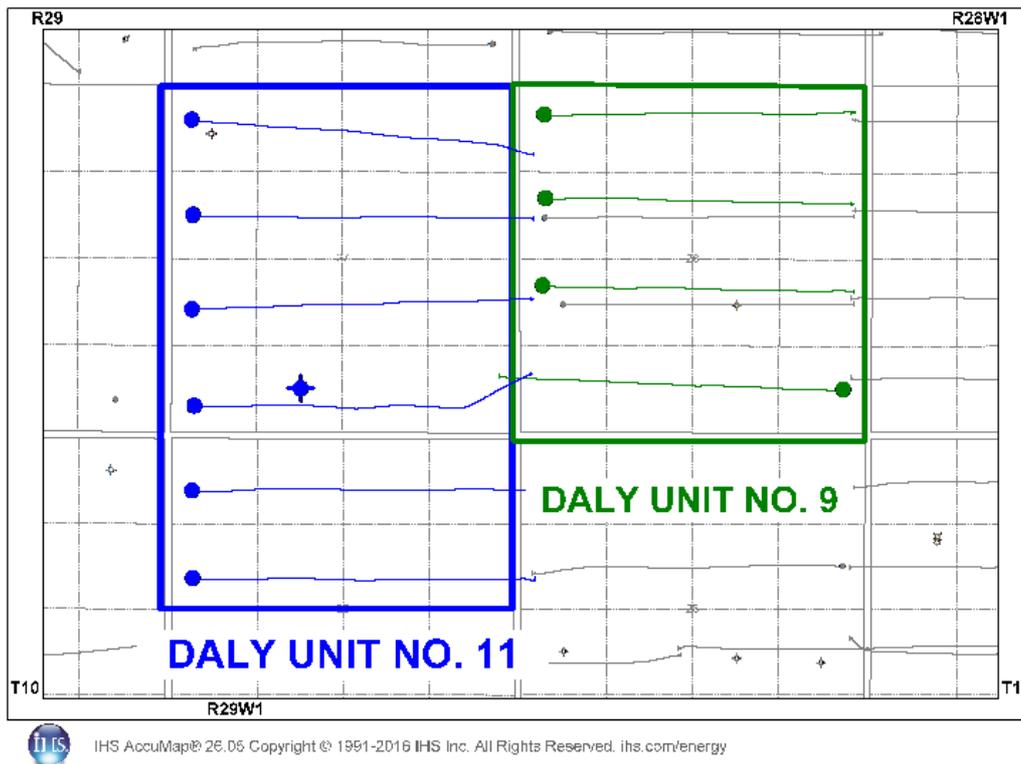
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INTRODUCTION

Daly Unit No. 11 Enhanced Oil Recovery (EOR) Waterflood Project was approved on September 1, 2015 with Tundra Oil and Gas (Tundra) as Operator. The EOR project area, outlined in blue in Figure 1, contains 1 abandoned vertical well and 6 producing horizontal in 24 LSDs in Township 10, Range 29W1. Well list and well status is available in Appendix A.

Figure 1: Daly Unit No. 11 Area Outline



In accordance with Section 73 of the Manitoba Drilling and Production Regulation, Tundra submits the following 2015 Annual Progress Report for Daly Unit No. 11.

DISCUSSION

Production History

For the wells included in Daly Unit No. 11, production started in September 1996 with the 00/03-27-010-29W1/2 vertical well. Oil production peaked at 91.89 m³/d in May 2012. In December 2015, the Unit was producing 11.72 m³/d of oil and 73.70 m³/d of water and the average WOR was 4.55 m³/m³. There is currently no water injection in Daly Unit No. 11. The rates and WOR are presented in Figure 2.

Figure 2: Daly Unit No. 11 Production/Injection Rates and WOR vs. Time

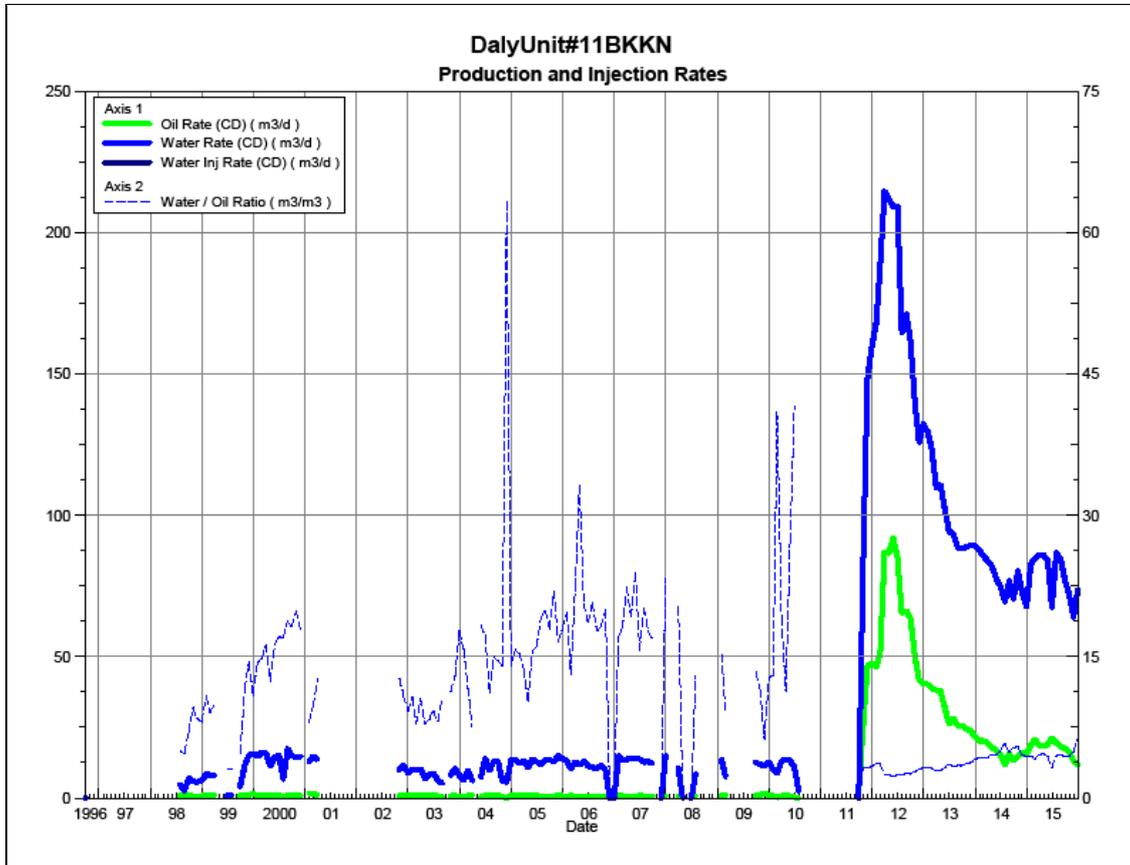
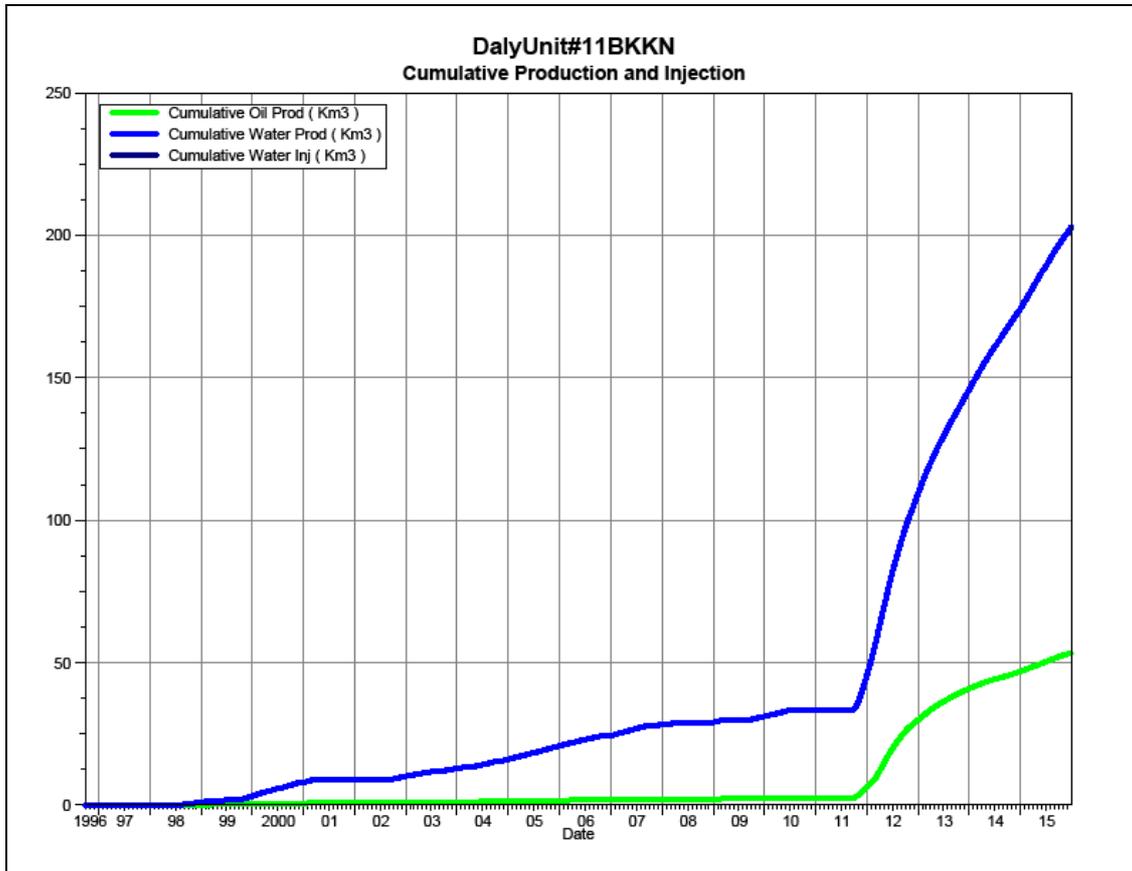


Figure 3 shows the cumulative production for Daly Unit No. 11 to the end of December 2015 as 53.32 e³m³ of oil and 203.05 e³m³ of water, representing a 6.3% recovery factor of the OOIP.

Figure 3: Daly Unit No. 11 Cumulative Oil, Water and Water Injected vs. Time



Waterflood History

Daly Unit No. 11 is still in the development phase at the end of 2015. Two of the existing producing horizontal wells will likely be converted to injection wells within the proposed Daly Unit No. 11, setting up a 40 acre line drive waterflood patterns. Daly Unit No. 11 will be the second horizontal to horizontal line drive at 40 acre spacing in the “Daly” portion of the Daly Sinclair Field.

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

Injection water for Daly Unit No. 11 will be supplied from the Jurassic source water well at 100/02-25-010-29W1 (00/02-25). Tundra received approval from the Petroleum Branch in March 2013 to use the 00/02-25 well as a source water well for waterflood operations. Jurassic-sourced water will be pumped from the 00/02-25 source well to the Daly 12-24-10-29 battery, where it will be filtered and then pumped up to injection system pressure.

Injection Wellhead Pressures

No wellhead injection pressure is available for Daly Unit No. 11.

Reservoir Pressure

Where practical, Tundra is committed to collecting pressure data from newly drilled wells. For Daly Unit No. 11, no reservoir pressure measurements were taken in 2015.

Well Servicing

Table 1 lists the maintenance that was required in Daly Unit No. 11 in 2015.

Table 1: Service and Maintenance in Daly Unit No. 11

100.05-27-010-29W1.00	Pump Change	6/23/2015
100.04-27-010-29W1.00	Pump Change	11/10/2015
100.13-22-010-29W1.00	Clean out	12/4/2015

Waterflood Performance Discussion

At the end of 2015, there is currently no water injection in Daly Unit No. 11, therefore, there is no waterflood analysis that can be done at this time. Two (2) of the existing producing horizontal wells will likely be converted to injection wells within the proposed Daly Unit No. 11, completing a horizontal to horizontal line drive at 40 acre spacing.

List of Appendices

Appendix A: Well Name and Well Status

APPENDIX A

<i>UWI</i>	<i>Surface Hole Location</i>	<i>License Number</i>	<i>Type</i>	<i>Status</i>
100/12-22-010-29W1/0	100/12-23-010-29W1/0	008121	Horizontal	Capable of OIL Prod
100/13-22-010-29W1/0	100/13-23-010-29W1/0	008122	Horizontal	Capable of OIL Prod
100/03-27-010-29W1/2	100/03-27-010-29W1/2	003835	Vertical	Abandoned
100/04-27-010-29W1/0	100/04-26-010-29W1/0	008116	Horizontal	Capable of OIL Prod
100/05-27-010-29W1/0	100/05-26-010-29W1/0	008090	Horizontal	Capable of OIL Prod
100/12-27-010-29W1/0	100/12-26-010-29W1/0	008444	Horizontal	Capable of OIL Prod
102/13-27-010-29W1/0	102/13-26-010-29W1/0	008445	Horizontal	Capable of OIL Prod