

**Waskada Unit No. 8**

**Waterflood Progress Report 2018**

**January 1<sup>st</sup> through December 31<sup>st</sup> 2018**

**Prepared for:**

**Manitoba Industry, Economic Development and Mines**

**Petroleum Branch**

**Prepared by:**

**Tundra Oil and Gas**

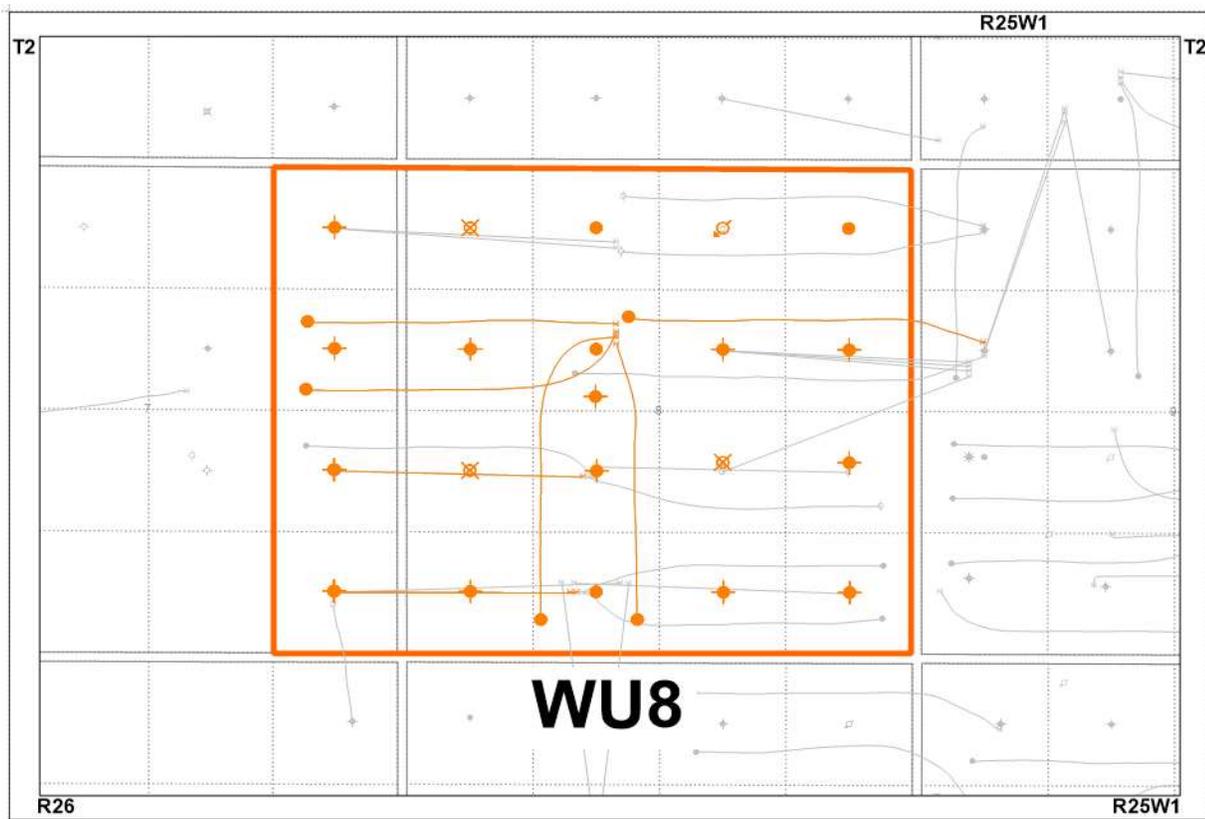
**March 25, 2019**

# INTRODUCTION

Waskada Unit No. 8 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Board Order No. PM 58 effective October 1985. The Unit area contains 17 abandoned/suspended wells, including 4 inactive/abandoned injectors, 9 producing/inactive wells and 3 horizontal wells waiting to be completed, in 20 LSDs in Township 1, Range 25 W1 as shown in the figure below.

**This unit is currently not on injection and there are no plans for injector re-activation .**

**Figure 1: Waskada Unit No. 8 Area Outline**



## Waskada Unit No. 8

Tundra Oil and Gas (Tundra), as the operator of the Waskada Unit No. 8 Enhanced Oil Recovery (EOR) project hereby submits the 2018 EOR report as per section 73 of the Drilling and Production Regulations.

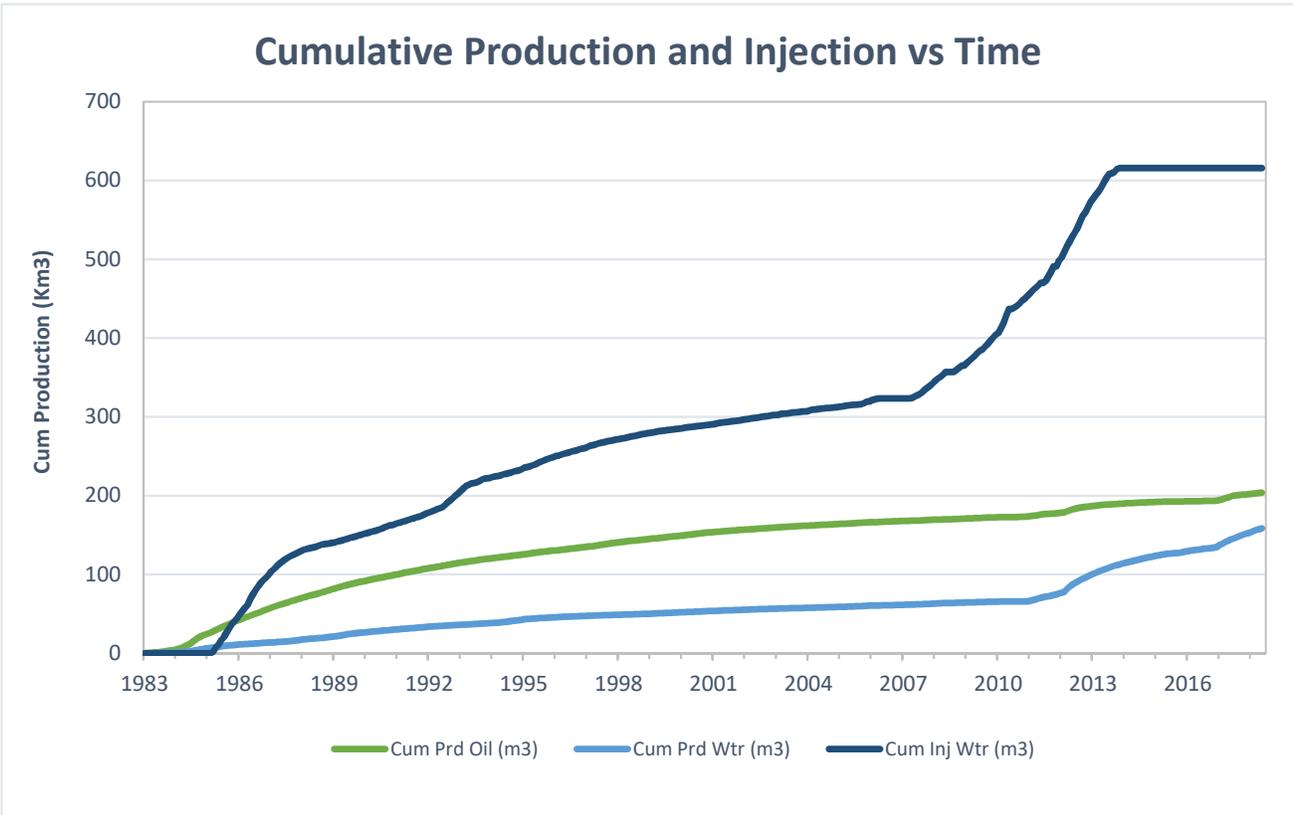
**a) Monthly oil and water production rates, injection rate, GOR and WOR**

MONTH	Cal Dly Oil m <sup>3</sup> /day	Cal Dly Wtr m <sup>3</sup> /day	Cal Inj Wtr m <sup>3</sup> /day	WOR m <sup>3</sup> /m <sup>3</sup>	GOR m <sup>3</sup> /m <sup>3</sup>
Jan-2018	32.81	36.72	0.00	1.12	0
Feb-2018	17.29	40.21	0.00	2.33	0
Mar-2018	15.68	48.39	0.00	3.09	0
Apr-2018	13.37	46.82	0.00	3.50	0
May-2018	9.22	35.25	0.00	3.82	0
Jun-2018	8.79	35.43	0.00	4.03	0
Jul-2018	12.99	33.92	0.00	2.61	0
Aug-2018	10.89	31.48	0.00	2.89	0
Sep-2018	11.13	54.34	0.00	4.88	0
Oct-2018	13.77	44.11	0.00	3.20	0
Nov-2018	13.20	30.52	0.00	2.31	0
Dec-2018	9.89	27.26	0.00	2.76	0

**b) Cumulative volume of oil, gas and water produced and fluid injected**

<b>2018 PRODUCTION</b>	
Produced Oil (m <sup>3</sup> )	5,142
Produced Gas (m <sup>3</sup> )	0
Produced Water (m <sup>3</sup> )	14,110
Fluid Injected (m <sup>3</sup> )	0
<b>CUMULATIVE PRODUCTION</b>	
Produced Oil (m <sup>3</sup> )	203,809
Produced Water (m <sup>3</sup> )	158,403

# Waskada Unit No. 8



## c) Well List

## Waskada Unit No. 8 Well List

<i>UWI</i>	<i>Type</i>	<i>Status</i>	<i>Future Plans</i>
100/01-07-002-25W1/0	Vertical	Abandoned	-
102/01-07-002-25W1/0	Horizontal	Drilled & Cased	-
103/01-07-002-25W1/0	Horizontal	Drilled & Cased	-
100/08-07-002-25W1/0	Vertical	Abandoned Zone	-
103/08-07-002-25W1/0	Horizontal	Drilled & Cased	-
100/09-07-002-25W1/0	Vertical	Abandoned Zone	-
102/09-07-002-25W1/0	Horizontal	Producing	-
103/09-07-002-25W1/0	Horizontal	Producing	-
100/16-07-002-25W1/0	Vertical	Abandoned	-
100/01-08-002-25W1/0	Vertical	Abandoned	-
100/02-08-002-25W1/0	Vertical	Abandoned	-
100/03-08-002-25W1/2	Vertical	Producing	-
102/03-08-002-25W1/0	Horizontal	Producing	-
103/03-08-002-25W1/0	Horizontal	Producing	-
100/04-08-002-25W1/0	Vertical	Abandoned Zone	-
100/05-08-002-25W1/0	Vertical	Abandoned	-
100/06-08-002-25W1/0	Vertical	Abandoned Zone	-
100/07-08-002-25W1/0	Vertical	Abandoned	-
100/08-08-002-25W1/2	Vertical	Abandoned Zone	-
100/09-08-002-25W1/0	Vertical	Abandoned	-
100/10-08-002-25W1/0	Vertical	Abandoned	-
100/11-08-002-25W1/0	Vertical	Producing	-
103/11-08-002-25W1/0	Horizontal	Producing	-
1A0/11-08-002-25W1/0	Vertical	Abandoned Zone	-
100/12-08-002-25W1/0	Vertical	Abandoned	-
100/13-08-002-25W1/0	Vertical	Abandoned	-
100/14-08-002-25W1/0	Vertical	Producing	-
100/15-08-002-25W1/0	Vertical	Injection	-
100/16-08-002-25W1/0	Vertical	Producing	-