

Waskada Unit No. 8

Waterflood Progress Report 2017

January 1st through December 31st 2017

Prepared for:

Manitoba Industry, Economic Development and Mines

Petroleum Branch

Prepared by:

Tundra Oil and Gas

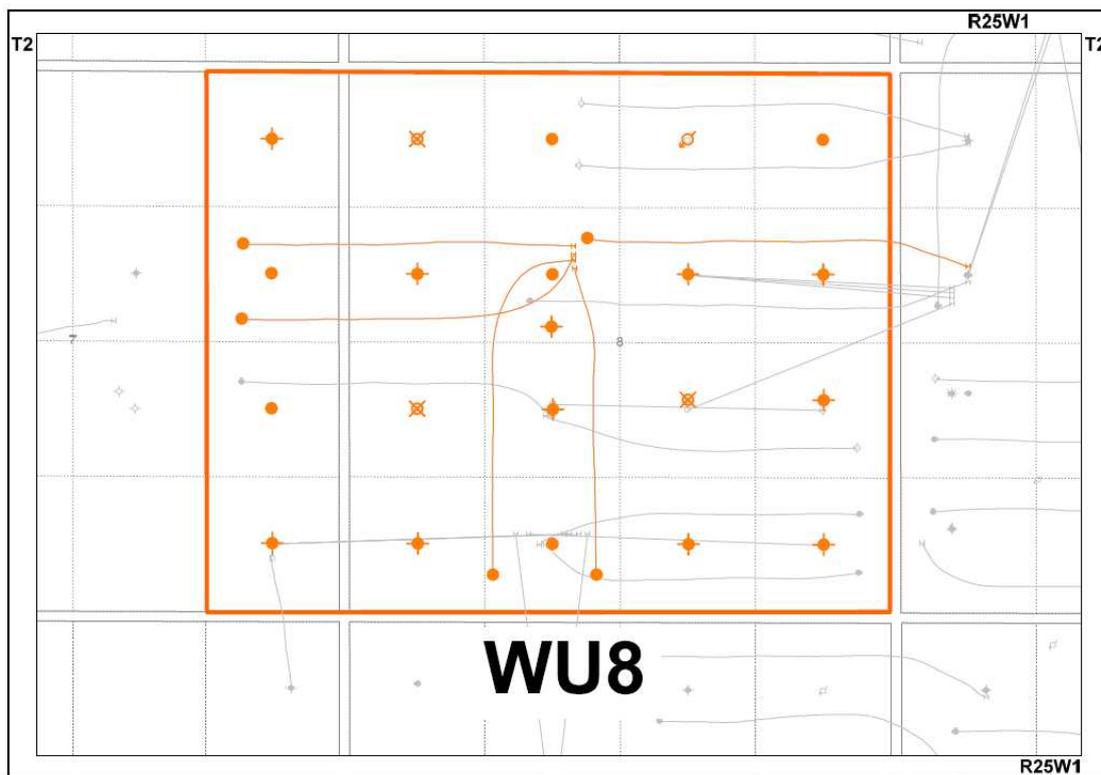
July 31, 2018

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 15 abandoned/suspended wells, including 4 inactive/abandoned injectors, and 11 producing/inactive wells 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 2017 EOR report as per section 73 of the Drilling and Production Regulations.

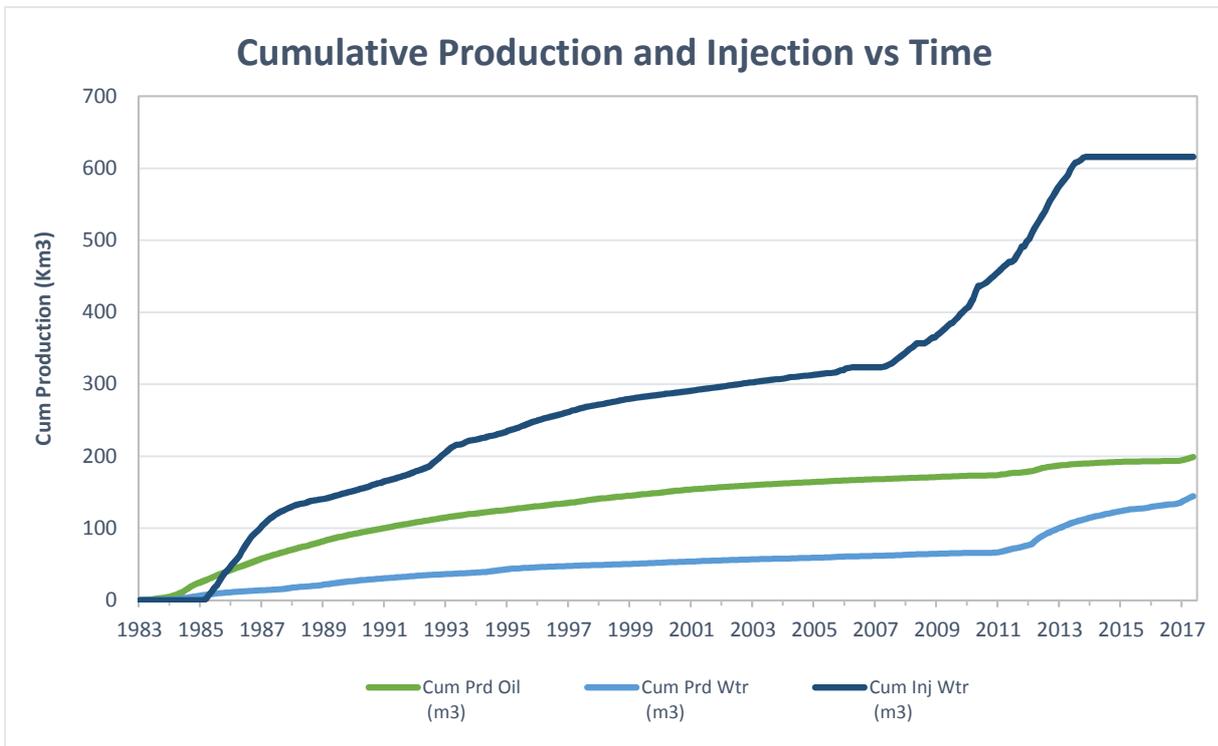
a) Monthly oil and water production rates, injection rate, GOR and WOR

MONTH	Cal Dly Oil m ³ /day	Cal Dly Wtr m ³ /day	Cal Inj Wtr m ³ /day	WOR m ³ /m ³	GOR m ³ /m ³
Jan-2017	1.35	16.55	0.00	12.30	0
Feb-2017	1.44	16.01	0.00	11.15	0
Mar-2017	1.17	9.11	0.00	7.80	0
Apr-2017	0.80	4.53	0.00	5.69	0
May-2017	0.96	16.55	0.00	17.16	0
Jun-2017	2.35	20.29	0.00	8.62	0
Jul-2017	13.37	26.92	0.00	2.01	0
Aug-2017	27.91	80.23	0.00	2.87	0
Sep-2017	21.77	50.71	0.00	2.33	0
Oct-2017	40.92	60.09	0.00	1.47	0
Nov-2017	34.44	59.38	0.00	1.72	0
Dec-2017	35.15	53.11	0.00	1.51	0

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

2017 PRODUCTION	
Produced Oil (m ³)	5,567
Produced Gas (m ³)	0
Produced Water (m ³)	12,635
Fluid Injected (m ³)	0
CUMULATIVE PRODUCTION	
Produced Oil (m ³)	198,668
Produced Water (m ³)	144,293

Waskada Unit No. 8



<i>UWI</i>	<i>Type</i>	<i>Status</i>	<i>Future Plans</i>
100/01-07-002-25W1/0	Vertical	Abandoned	-
100/08-07-002-25W1/0	Vertical	Producing	-
100/09-07-002-25W1/0	Vertical	Producing	-
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	-