

Waskada Unit No. 8

Waterflood Progress Report 2019

January 1st through December 31st 2019

Prepared for:

Manitoba Industry, Economic Development and Mines

Petroleum Branch

Prepared by:

Tundra Oil and Gas

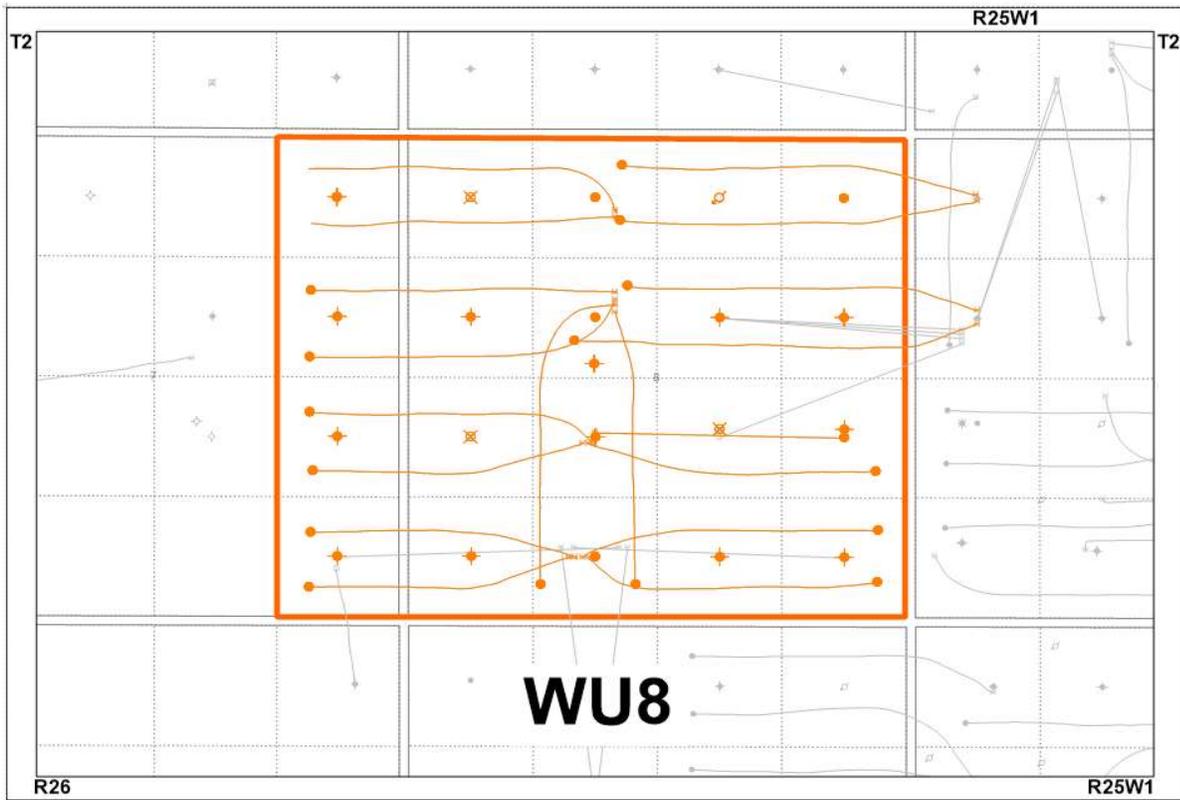
March 18, 2020

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, 22 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.

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 2019 EOR report as per section 73 of the Drilling and Production Regulations.

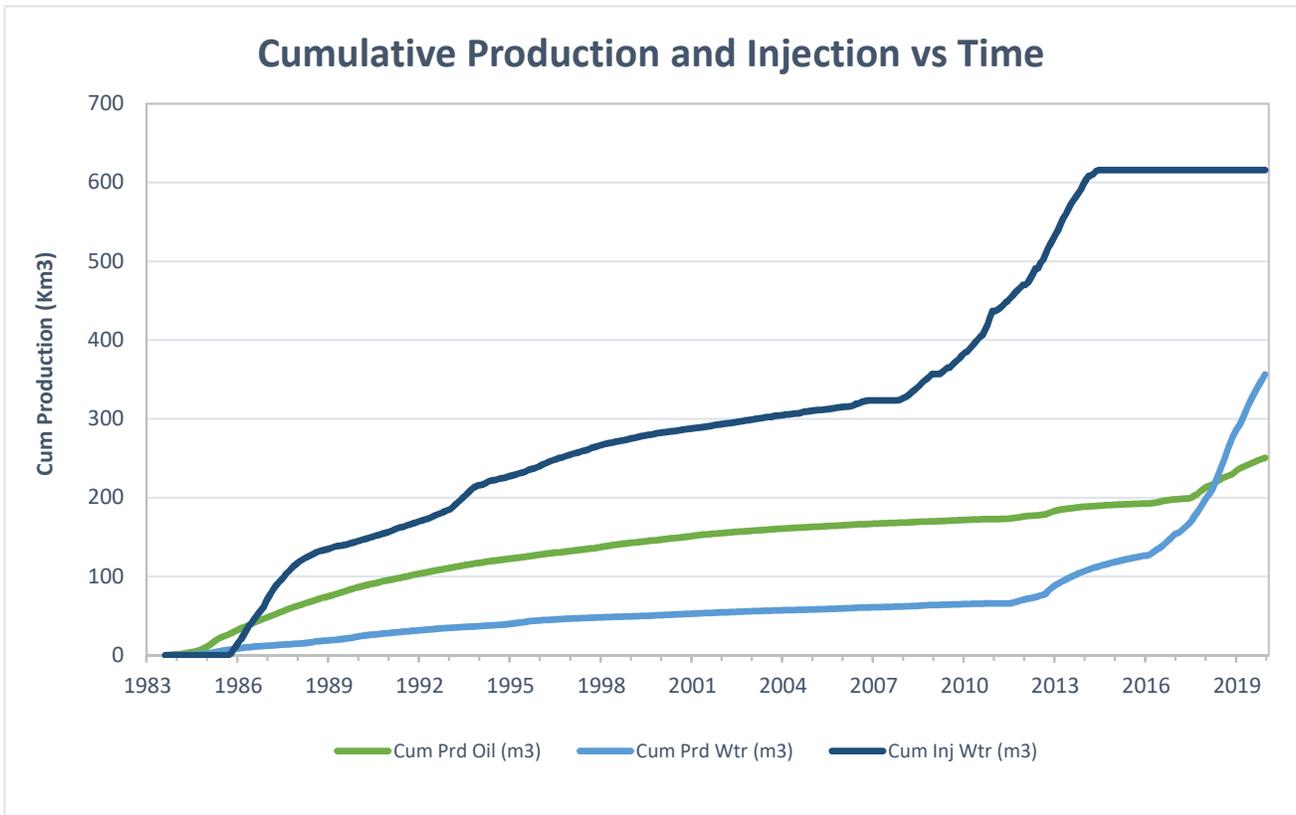
a) Monthly oil and water production rates, injection rate, GOR and WOR

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-2019	77.56	173.99	0.00	2.24	0
Feb-2019	63.12	150.03	0.00	2.38	0
Mar-2019	56.53	220.81	0.00	3.91	0
Apr-2019	46.91	246.40	0.00	5.25	0
May-2019	48.32	256.32	0.00	5.30	0
Jun-2019	44.48	228.66	0.00	5.14	0
Jul-2019	44.03	210.35	0.00	4.78	0
Aug-2019	46.87	192.83	0.00	4.11	0
Sep-2019	46.62	207.04	0.00	4.44	0
Oct-2019	38.50	181.24	0.00	4.71	0
Nov-2019	38.12	179.70	0.00	4.71	0
Dec-2019	39.29	167.32	0.00	4.26	0

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

2019 PRODUCTION	
Produced Oil (m ³)	17,936
Produced Gas (m ³)	0
Produced Water (m ³)	73,543
Fluid Injected (m ³)	0
CUMULATIVE PRODUCTION	
Produced Oil (m ³)	250,574
Produced Water (m ³)	356,188

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	Producing	-
103/01-07-002-25W1/0	Horizontal	Producing	WIW Conversion
100/08-07-002-25W1/0	Vertical	Abandoned Zone	-
102/08-07-002-25W1/0	Horizontal	Producing	WIW Conversion
103/08-07-002-25W1/0	Horizontal	Producing	-
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	-
102/16-07-002-25W1/0	Horizontal	Drilled & Cased	-
103/16-07-002-25W1/0	Horizontal	Drilled & Cased	-
100/01-08-002-25W1/0	Vertical	Abandoned	-
102/01-08-002-25W1/0	Horizontal	Producing	-
103/01-08-002-25W1/0	Horizontal	Producing	WIW Conversion
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	WIW Conversion
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	-
102/08-08-002-25W1/0	Horizontal	Producing	-
103/08-08-002-25W1/0	Horizontal	Producing	-
100/09-08-002-25W1/0	Vertical	Abandoned	-
100/10-08-002-25W1/0	Vertical	Abandoned	-
100/11-08-002-25W1/0	Vertical	Producing	-
102/11-08-002-25W1/0	Horizontal	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	-
102/14-08-002-25W1/0	Horizontal	Producing	-
103/14-08-002-25W1/0	Horizontal	Producing	-
100/15-08-002-25W1/0	Vertical	Injection	-
100/16-08-002-25W1/0	Vertical	Producing	-