

Waskada Unit No. 21

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

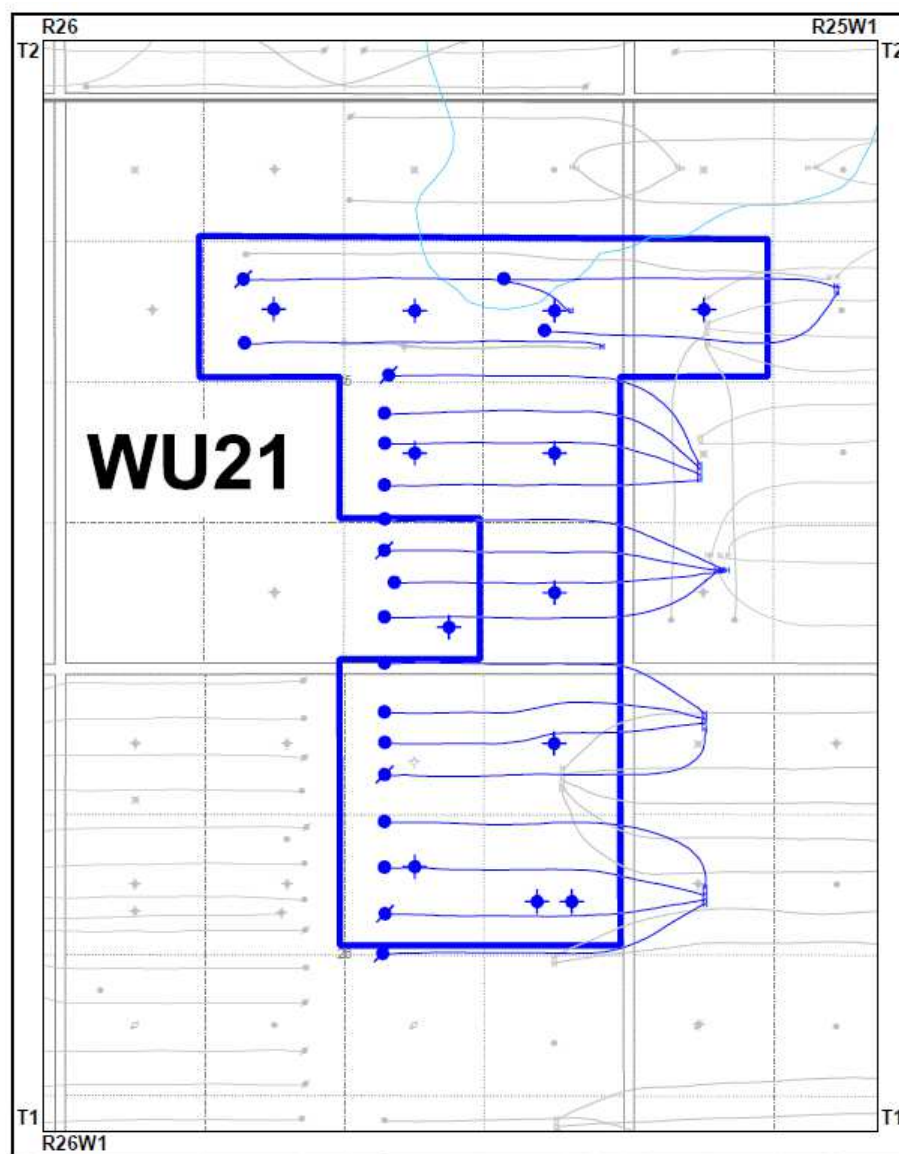
July 30, 2018

INTRODUCTION

Waskada Unit No. 21 Enhanced Oil Recovery (EOR) Waterflood Project was approved March 1, 2017. Waskada Unit No. 21 area contains 12 abandoned vertical wells and 20 horizontal wells (6 suspended and 14 producing) in 11 Legal Sub Divisions (LSD) in Township 1, Range 26 W1 as shown in the figure below.

This unit is currently not on injection.

Figure 1: Waskada Unit No. 21 Area Outline



Waskada Unit No. 21

Tundra Oil and Gas (Tundra), as the operator of the Waskada Unit No. 21 Enhanced Oil Recovery (EOR) project hereby submits the 2017 EOR report as per section 73 of the Drilling and Production Regulations.

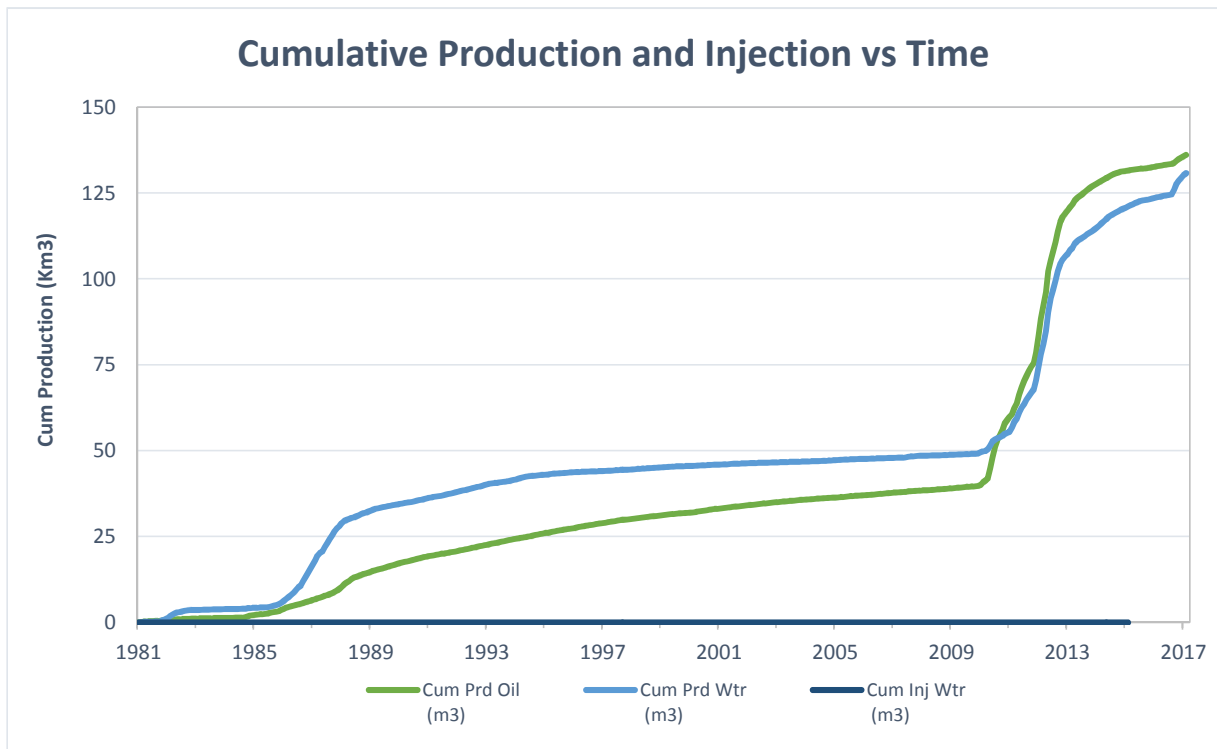
a) Monthly oil and water production rates, injection rate, GOR and WOR

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	3.56	4.83	0.00	1.36	0
Feb-2017	4.75	5.95	0.00	1.25	0
Mar-2017	4.23	5.37	0.00	1.27	0
Apr-2017	3.30	3.83	0.00	1.16	0
May-2017	3.44	3.82	0.00	1.11	0
Jun-2017	3.45	3.31	0.00	0.96	0
Jul-2017	9.34	40.75	0.00	4.36	0
Aug-2017	22.20	58.45	0.00	2.63	0
Sep-2017	14.98	32.03	0.00	2.14	0
Oct-2017	13.90	27.69	0.00	1.99	0
Nov-2017	14.50	25.82	0.00	1.78	0
Dec-2017	9.42	16.72	0.00	1.78	0

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

2017 PRODUCTION	
Produced Oil (m ³)	3,268
Produced Gas (m ³)	0
Produced Water (m ³)	7,003
Fluid Injected (m ³)	0
CUMULATIVE PRODUCTION	
Produced Oil (m ³)	136,043
Produced Water (m ³)	130,768

Waskada Unit No. 21



<i>UWI</i>	<i>Type</i>	<i>Status</i>	<i>Future Plans</i>
100/09-26-001-26W1/2	Vertical	Abandoned Zone	-
102/09-26-001-26W1/2	Vertical	Abandoned	-
100/10-26-001-26W1/2	Vertical	Abandoned Zone	-
102/10-26-001-26W1/0	Horizontal	Producing	-
103/10-26-001-26W1/0	Horizontal	Producing	-
104/10-26-001-26W1/0	Horizontal	Suspended	WIW Conversion
105/10-26-001-26W1/0	Horizontal	Suspended	-
102/15-26-001-26W1/0	Horizontal	Producing	-
103/15-26-001-26W1/0	Horizontal	Producing	-
104/15-26-001-26W1/0	Horizontal	Suspended	WIW Conversion
100/16-26-001-26W1/0	Vertical	Abandoned	-
100/01-35-001-26W1/0	Vertical	Abandoned Zone	-
100/02-35-001-26W1/0	Vertical	Abandoned	-
102/02-35-001-26W1/0	Horizontal	Suspended	-
103/02-35-001-26W1/0	Horizontal	Producing	WIW Conversion
104/02-35-001-26W1/0	Horizontal	Producing	-
105/02-35-001-26W1/0	Horizontal	Producing	WIW Conversion
100/07-35-001-26W1/2	Vertical	Abandoned Zone	-
102/07-35-001-26W1/0	Horizontal	Producing	-
103/07-35-001-26W1/0	Horizontal	Producing	WIW Conversion
104/07-35-001-26W1/0	Horizontal	Producing	-
105/07-35-001-26W1/0	Horizontal	Producing	WIW Conversion
100/08-35-001-26W1/0	Vertical	Abandoned Zone	-
100/09-35-001-26W1/2	Vertical	Abandoned Zone	-
102/09-35-001-26W1/0	Horizontal	Producing	WIW Conversion
103/09-35-001-26W1/0	Horizontal	Producing	-
100/10-35-001-26W1/2	Vertical	Abandoned Zone	-
103/10-35-001-26W1/0	Horizontal	Suspended	WIW Conversion
100/11-35-001-26W1/2	Vertical	Abandoned Zone	-
102/11-35-001-26W1/3	Horizontal	Producing	-
103/11-35-001-26W1/0	Horizontal	Suspended	-
100/12-36-001-26W1/2	Vertical	Abandoned Zone	-