

**Ewart Unit No. 12**

**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**

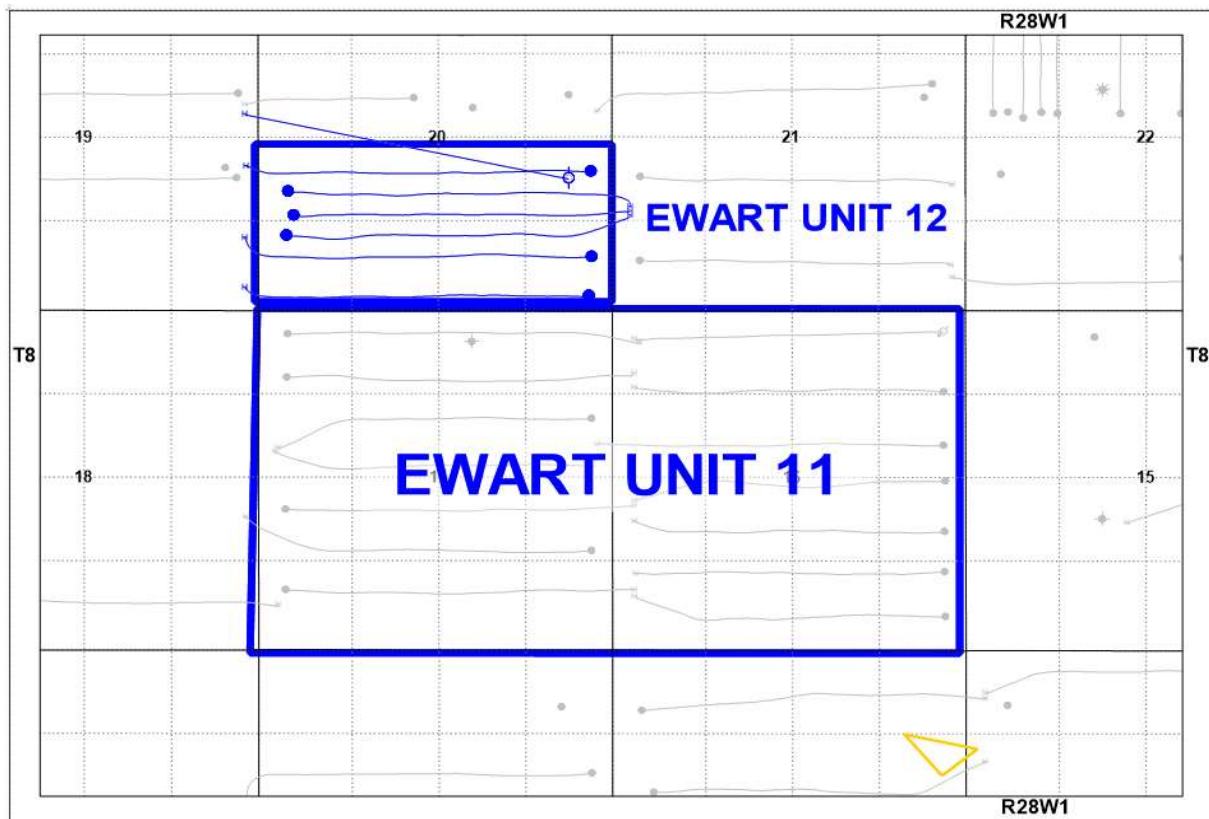
**April 4, 2019**

## INTRODUCTION

Ewart Unit No. 12 Enhanced Oil Recovery (EOR) Waterflood Project was approved effective March 1st, 2017 with Tundra Oil and Gas as Operator. The EOR project area, outlined in blue in Figure 1, contains 7 horizontal Lodgepole wells (6 producing and 1 waiting to be completed) in 8 LSDs in Township 8, Range 28W1.

**This unit is currently not on injection.**

**Figure 1: Ewart Unit No. 12 Area Outline**



## Ewart Unit No. 12

Tundra Oil and Gas (Tundra), as the operator of the Ewart Unit No. 12 Enhanced Oil Recovery (EOR) project hereby submits the 2018 EOR report as per section 73 of the Drilling and Production Regulations.

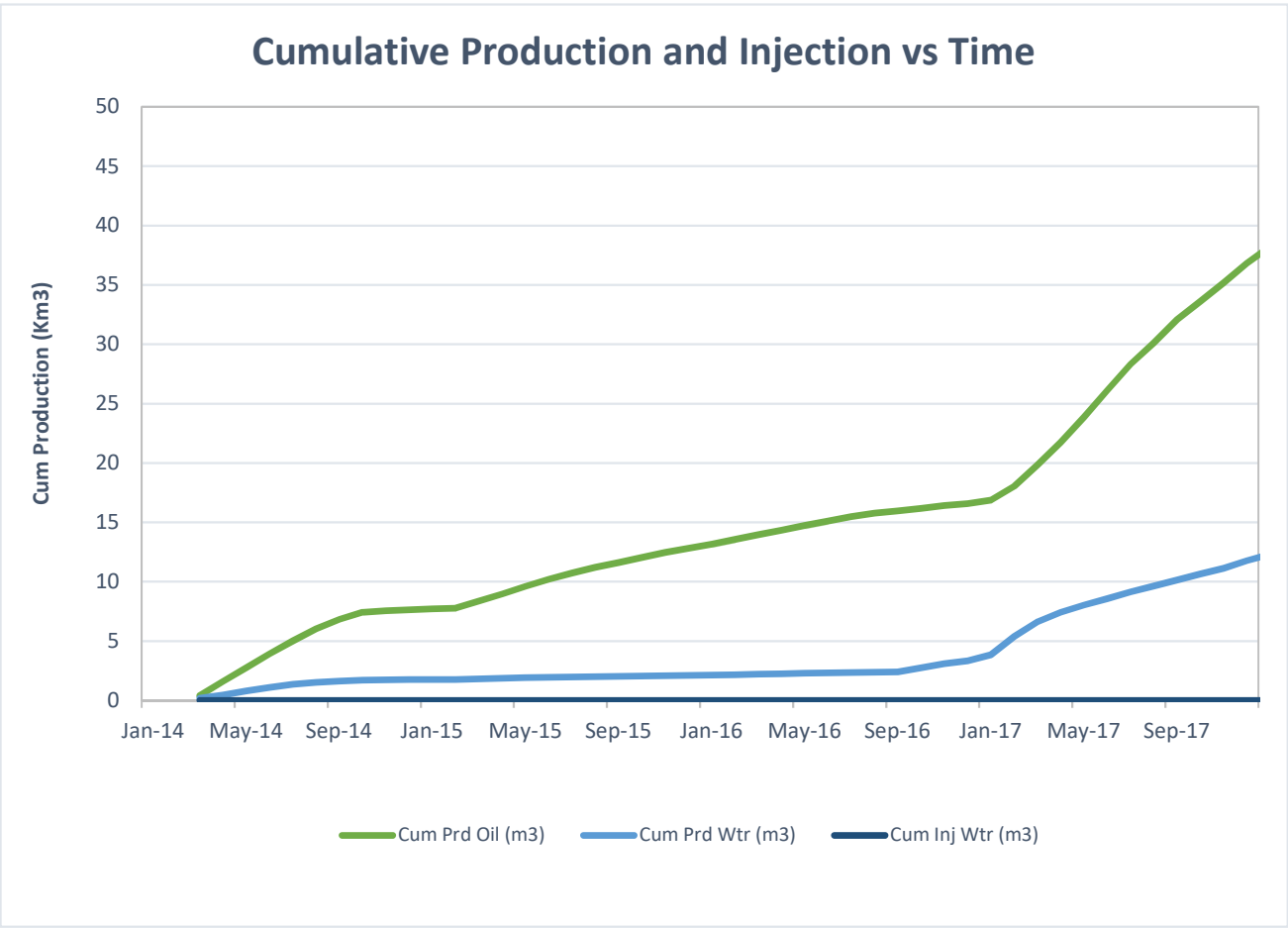
**a) Monthly oil and water production rates, injection rate, GOR and WOR**

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	46.22	17.73	0.00	0.38	0
Feb-2018	40.28	14.06	0.00	0.35	0
Mar-2018	46.13	16.04	0.00	0.35	0
Apr-2018	55.35	16.53	0.00	0.30	0
May-2018	55.82	13.75	0.00	0.25	0
Jun-2018	53.54	10.81	0.00	0.20	0
Jul-2018	56.39	10.56	0.00	0.19	0
Aug-2018	53.57	8.78	0.00	0.16	0
Sep-2018	55.86	8.99	0.00	0.16	0
Oct-2018	48.58	8.42	0.00	0.17	0
Nov-2018	41.76	7.02	0.00	0.17	0
Dec-2018	37.89	6.89	0.00	0.18	0

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

2018 PRODUCTION	
Produced Oil (m <sup>3</sup> )	18,006
Produced Gas (m <sup>3</sup> )	0
Produced Water (m <sup>3</sup> )	4,241
Fluid Injected (m <sup>3</sup> )	0
CUMULATIVE PRODUCTION	
Produced Oil (m <sup>3</sup> )	54,811
Produced Water (m <sup>3</sup> )	16,005

Ewart Unit No. 12



## c) Well List

## Ewart Unit No. 12 Well List

<i><b>UWI</b></i>	<i><b>Type</b></i>	<i><b>Status</b></i>	<i><b>Future Plans</b></i>
100/01-20-008-28W1/0	Horizontal	Producing	-
102/01-20-008-28W1/0	Horizontal	Producing	-
102/04-20-008-28W1/0	Horizontal	Producing	-
103/05-20-008-28W1/0	Horizontal	Producing	-
104/05-20-008-28W1/0	Horizontal	Producing	-
100/08-20-008-28W1/0	Horizontal	Producing	-
102/08-20-008-28W1/0	Horizontal	Drilled & Cased	-