

**Ewart Unit No. 11**

**Waterflood Progress Report 2017**

**January 1<sup>st</sup> through December 31<sup>st</sup> 2017**

**Prepared for:**

**Manitoba Industry, Economic Development and Mines**

**Petroleum Branch**

**Prepared by:**

**Tundra Oil and Gas**

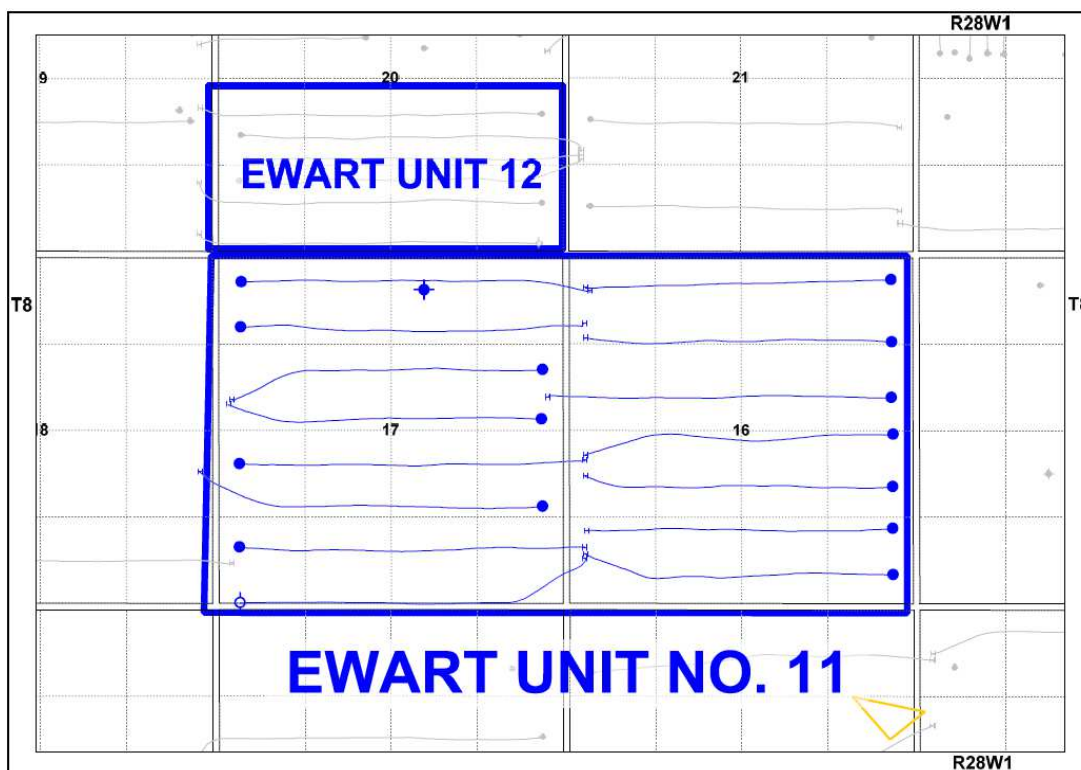
**August 7, 2018**

## INTRODUCTION

Ewart Unit No. 11 Enhanced Oil Recovery (EOR) Waterflood Project was approved effective May 1st, 2017 with Tundra Oil and Gas as Operator. The EOR project area, outlined in blue in Figure 1, contains 1 abandoned vertical well and 15 horizontal Lodgepole wells (14 producing and 1 waiting to be completed) in 32 LSDs in Township 8, Range 28W1.

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

**Figure 1: Ewart Unit No. 11 Area Outline**



## Ewart Unit No. 11

Tundra Oil and Gas (Tundra), as the operator of the Ewart Unit No. 11 Enhanced Oil Recovery (EOR) project hereby submits the 2017 EOR report as per section 73 of the Drilling and Production Regulations.

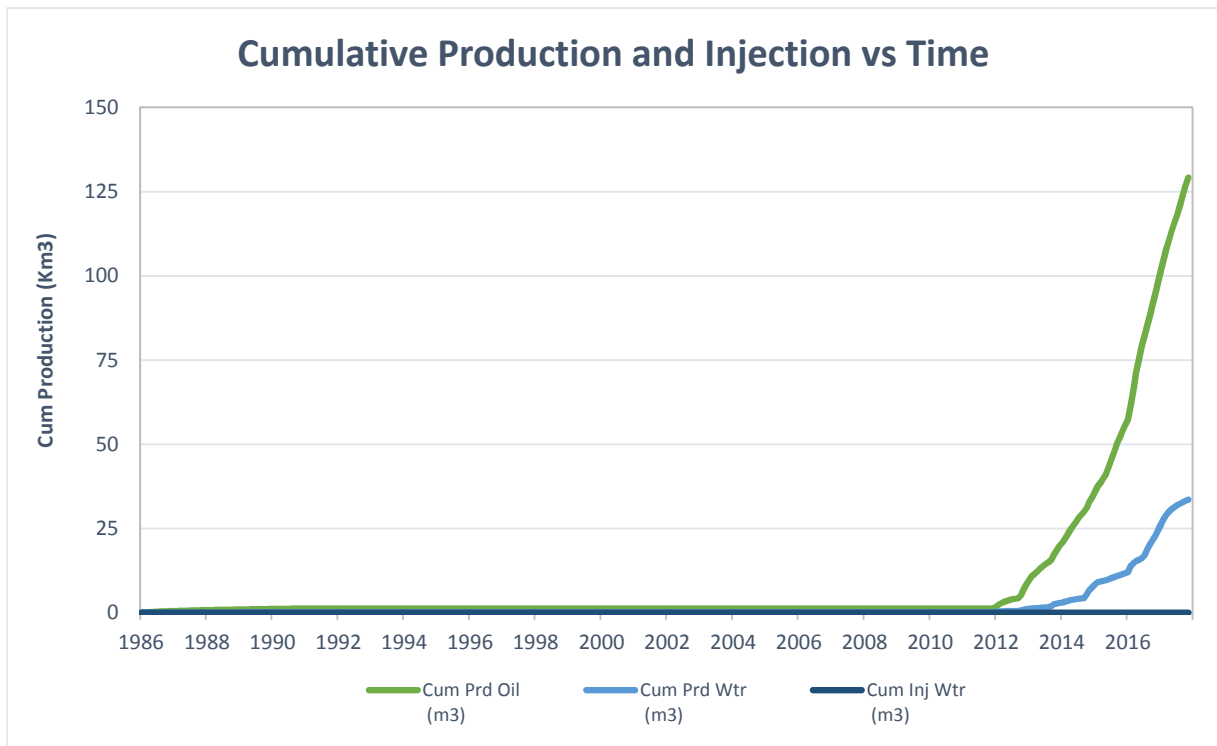
**a) Monthly oil and water production rates, injection rate, GOR and WOR**

MONTH	Cal Dly Oil m <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-2017	116.33	59.33	0.00	0.51	0
Feb-2017	115.68	52.26	0.00	0.45	0
Mar-2017	106.91	55.13	0.00	0.52	0
Apr-2017	100.51	39.15	0.00	0.39	0
May-2017	91.91	34.43	0.00	0.37	0
Jun-2017	86.69	22.87	0.00	0.26	0
Jul-2017	82.35	19.13	0.00	0.23	0
Aug-2017	76.58	18.22	0.00	0.24	1.68
Sep-2017	89.33	14.35	0.00	0.16	0
Oct-2017	95.61	13.74	0.00	0.14	0
Nov-2017	89.46	12.00	0.00	0.13	0
Dec-2017	80.89	12.75	0.00	0.16	3.39

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

2017 PRODUCTION	
Produced Oil (m <sup>3</sup> )	34,387
Produced Gas (m <sup>3</sup> )	13
Produced Water (m <sup>3</sup> )	10,709
Fluid Injected (m <sup>3</sup> )	0
CUMULATIVE PRODUCTION	
Produced Oil (m <sup>3</sup> )	129,123
Produced Water (m <sup>3</sup> )	33,553

## Ewart Unit No. 11



<i><b>UWI</b></i>	<i><b>Type</b></i>	<i><b>Status</b></i>	<i><b>Future Plans</b></i>
102/01-16-008-28W1/0	Horizontal	Producing	-
103/01-16-008-28W1/0	Horizontal	Producing	-
103/08-16-008-28W1/0	Horizontal	Producing	-
104/08-16-008-28W1/0	Horizontal	Producing	-
102/09-16-008-28W1/0	Horizontal	Producing	-
102/16-16-008-28W1/0	Horizontal	Producing	WIW Conversion
103/16-16-008-28W1/0	Horizontal	Producing	-
103/04-17-008-28W1/0	Horizontal	Producing	-
104/04-17-008-28W1/0	Horizontal	Drilled & Cased	-
102/05-17-008-28W1/0	Horizontal	Producing	-
100/08-17-008-28W1/0	Horizontal	Producing	-
100/09-17-008-28W1/0	Horizontal	Producing	-
102/09-17-008-28W1/0	Horizontal	Producing	-
102/13-17-008-28W1/0	Horizontal	Producing	-
103/13-17-008-28W1/0	Horizontal	Producing	-
100/15-17-008-28W1/0	Vertical	Abandoned	-