

Ewart Unit No. 7

Waterflood Progress Report 2018

January 1st through December 31st 2018

Prepared for:

Manitoba Industry, Economic Development and Mines

Petroleum Branch

Prepared by:

Tundra Oil and Gas

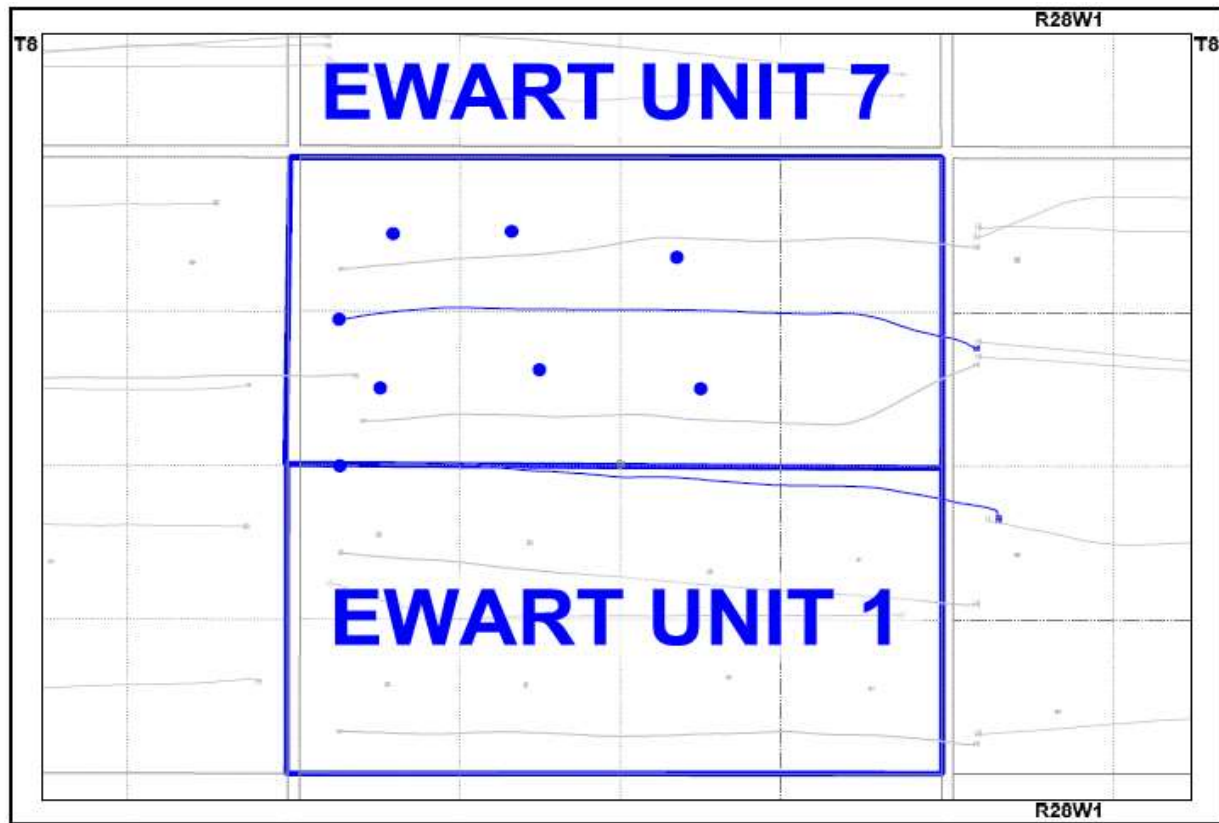
April 25, 2019

INTRODUCTION

Ewart Unit No. 7 Enhanced Oil Recovery (EOR) Waterflood Project was approved on May 1, 2015 with Tundra Oil and Gas (Tundra) as Operator. The EOR Unit area, outlined in green, contains 6 producing vertical wells and 2 producing horizontal wells in 8 LSDs in Township 8 Range 28 W1 as shown in the figure below.

This unit is currently not on injection.

Figure 1: Ewart Unit No. 7 Area Outline



Ewart Unit No. 7

Tundra Oil and Gas (Tundra), as the operator of the Ewart Unit No. 7 Enhanced Oil Recovery (EOR) project hereby submits the 2018 EOR report as per section 73 of the Drilling and Production Regulations.

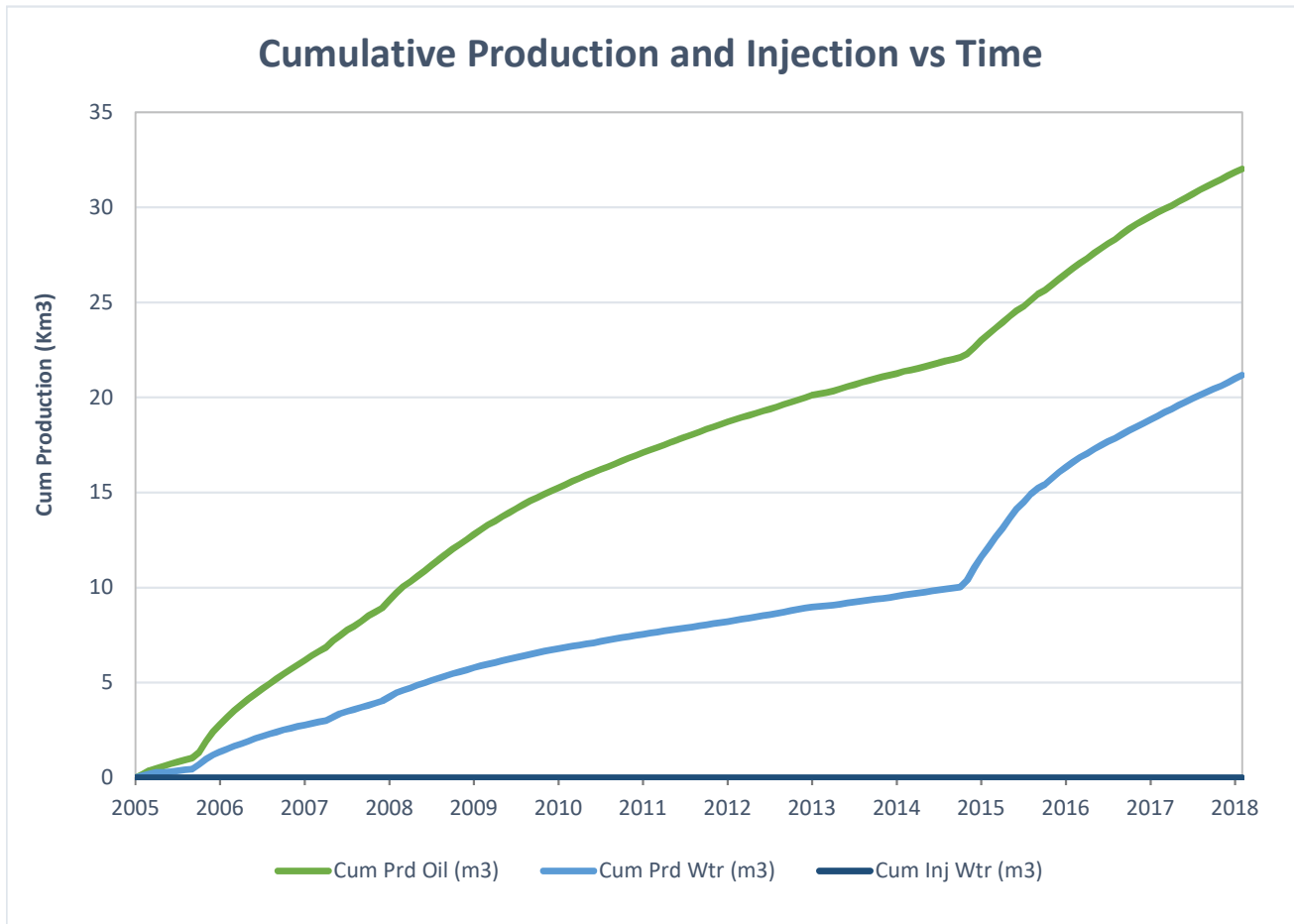
a) Monthly oil and water production rates, injection rate, GOR and WOR

MONTH	Cal Dly Oil m 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-2018	6.02	6.21	0.00	1.03	0
Feb-2018	5.89	5.90	0.00	1.00	0
Mar-2018	6.67	6.43	0.00	0.96	0
Apr-2018	6.75	6.14	0.00	0.91	0
May-2018	6.75	6.01	0.00	0.89	0
Jun-2018	6.85	5.70	0.00	0.83	0
Jul-2018	6.25	5.46	0.00	0.87	0
Aug-2018	5.93	5.03	0.00	0.85	0
Sep-2018	6.21	5.44	0.00	0.88	0
Oct-2018	6.40	5.69	0.00	0.89	0
Nov-2018	6.21	6.82	0.00	1.10	0
Dec-2018	5.13	5.78	0.00	1.13	0

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

2018 PRODUCTION	
Produced Oil (m ³)	2,283
Produced Gas (m ³)	0
Produced Water (m ³)	2,147
Fluid Injected (m ³)	0
CUMULATIVE PRODUCTION	
Produced Oil (m ³)	32,020
Produced Water (m ³)	21,174

Ewart Unit No. 7



c) Well List

Ewart Unit No. 7 Well List

<i>UWI</i>	<i>Type</i>	<i>Status</i>	<i>Future Plans</i>
103/05-09-008-28W1/0	Horizontal	Producing	-
100/10-09-008-28W1/0	Vertical	Producing	-
100/11-09-008-28W1/0	Vertical	Producing	-
100/12-09-008-28W1/0	Vertical	Producing	-
103/12-09-008-28W1/0	Horizontal	Producing	-
100/13-09-008-28W1/0	Vertical	Producing	-
100/14-09-008-28W1/0	Vertical	Producing	-
100/15-09-008-28W1/0	Vertical	Producing	-

d) Discussion

There are 2 undrilled LSDs (9 and 16) within the proposed unit boundary for which 2 vertical wells are planned. The two (2) future horizontal injectors, including one (1) inter-unit well, were drilled in 2015 between the existing vertical producing wells, completing waterflood patterns with effective 20 acre spacing.