

**Sinclair Unit No. 14**

**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**

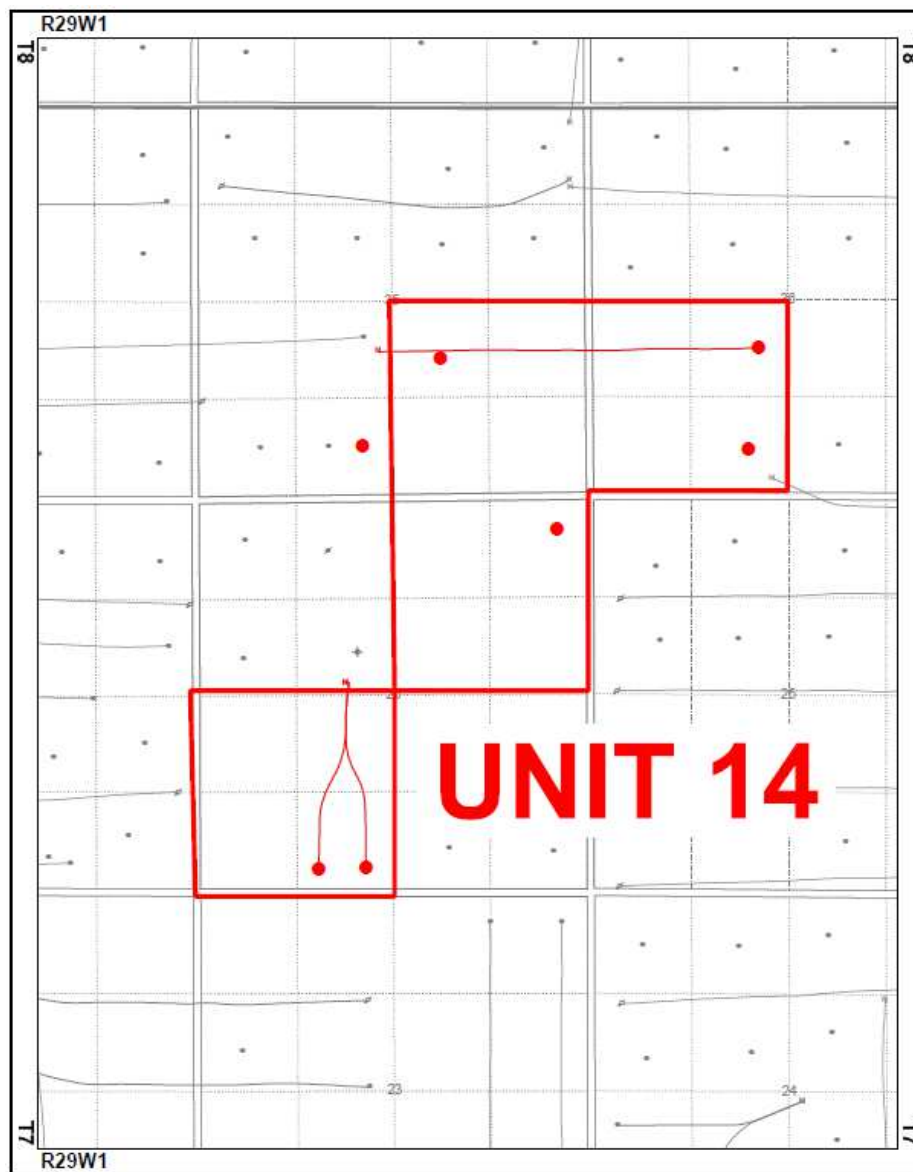
**August 2, 2018**

## INTRODUCTION

Sinclair Unit No. 14 Enhanced Oil Recovery (EOR) Waterflood Project was approved on November 1, 2015 with Tundra Oil and Gas (Tundra) as Operator. The EOR Unit area, outlined in red, contains 2 abandoned wells, 2 producing vertical wells and 2 producing horizontal wells in 16 LSDs in Township 7 Range 29 W1 as shown in the figure below.

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

**Figure 1: Sinclair Unit No. 14 Area Outline**



## Sinclair Unit No. 14

Tundra Oil and Gas (Tundra), as the operator of the Sinclair Unit No. 14 Enhanced Oil Recovery (EOR) project hereby submits the 2017 EOR report as per section 73 of the Drilling and Production Regulations.

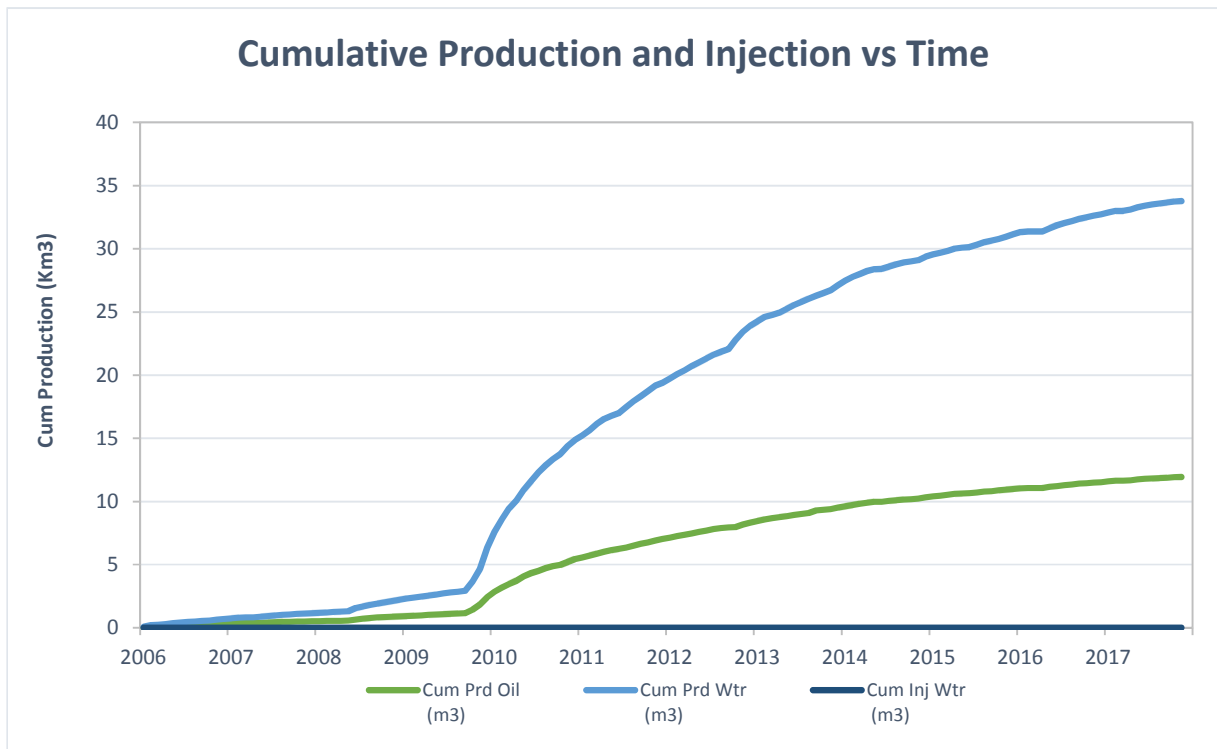
### a) Monthly oil and water production rates, injection rate, GOR and WOR

| MONTH    | Cal Dly Oil<br>m <sup>3</sup> /day | Cal Dly Wtr<br>m <sup>3</sup> /day | Cal Inj Wtr<br>m <sup>3</sup> /day | WOR<br>m <sup>3</sup> /m <sup>3</sup> | GOR<br>m <sup>3</sup> /m <sup>3</sup> |
|----------|------------------------------------|------------------------------------|------------------------------------|---------------------------------------|---------------------------------------|
| Jan-2017 | 1.10                               | 2.74                               | 0.00                               | 2.50                                  | 0                                     |
| Feb-2017 | 2.46                               | 5.78                               | 0.00                               | 2.35                                  | 0                                     |
| Mar-2017 | 1.44                               | 3.66                               | 0.00                               | 2.54                                  | 0                                     |
| Apr-2017 | 0.10                               | 0.32                               | 0.00                               | 3.23                                  | 0                                     |
| May-2017 | 1.22                               | 3.34                               | 0.00                               | 2.74                                  | 0                                     |
| Jun-2017 | 2.20                               | 6.09                               | 0.00                               | 2.77                                  | 0                                     |
| Jul-2017 | 1.32                               | 3.53                               | 0.00                               | 2.67                                  | 0                                     |
| Aug-2017 | 1.15                               | 3.76                               | 0.00                               | 3.28                                  | 0                                     |
| Sep-2017 | 0.90                               | 2.44                               | 0.00                               | 2.72                                  | 0                                     |
| Oct-2017 | 1.10                               | 2.58                               | 0.00                               | 2.35                                  | 0                                     |
| Nov-2017 | 1.13                               | 2.28                               | 0.00                               | 2.02                                  | 0                                     |
| Dec-2017 | 0.48                               | 1.10                               | 0.00                               | 2.31                                  | 0                                     |

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

| 2017 PRODUCTION                  |        |
|----------------------------------|--------|
| Produced Oil (m <sup>3</sup> )   | 441    |
| Produced Gas (m <sup>3</sup> )   | 0      |
| Produced Water (m <sup>3</sup> ) | 1,138  |
| Fluid Injected (m <sup>3</sup> ) | 0      |
| CUMULATIVE PRODUCTION            |        |
| Produced Oil (m <sup>3</sup> )   | 11,925 |
| Produced Water (m <sup>3</sup> ) | 33,763 |

## Sinclair Unit No. 14



| <i><b>UWI</b></i>    | <i><b>Type</b></i> | <i><b>Status</b></i> | <i><b>Future Plans</b></i> |
|----------------------|--------------------|----------------------|----------------------------|
| 100/03-26-007-29W1/0 | Horizontal         | Producing            | -                          |
| 100/03-26-007-29W1/2 | Horizontal         | Producing            | -                          |
| 100/16-26-007-29W1/0 | Vertical           | Producing            | -                          |
| 100/02-35-007-29W1/0 | Vertical           | Producing            | -                          |
| 100/07-35-007-29W1/0 | Vertical           | Abandoned            | -                          |
| 100/03-36-007-29W1/0 | Vertical           | Abandoned            | -                          |
| 100/06-36-007-29W1/0 | Horizontal         | Producing            | -                          |