

Kola Unit No. 3

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

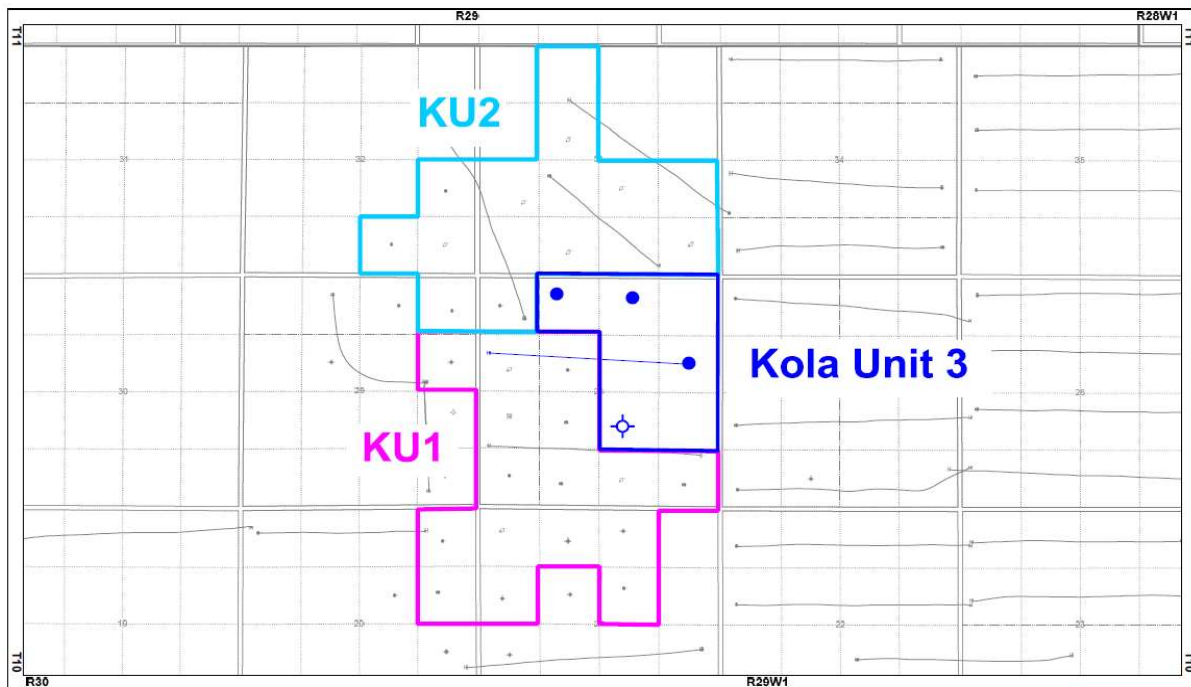
March 25, 2019

INTRODUCTION

Kola Unit No. 3 Enhanced Oil Recovery (EOR) Waterflood Project was approved effective May 1st, 2014 with Tundra Oil and Gas as Operator. The EOR project area, outlined in dark blue in Figure 1, contains 1 abandoned and 2 vertical producing wells and 1 horizontal producing well in 7 LSDs in Township 10, Range 29W1.

This unit is currently not on injection.

Figure 1: Kola Unit No. 3 Area Outline



Kola Unit No. 3

Tundra Oil and Gas (Tundra), as the operator of the Kola Unit No. 3 Enhanced Oil Recovery (EOR) project hereby submits the 2018 EOR report as per section 73 of the Drilling and Production Regulations.

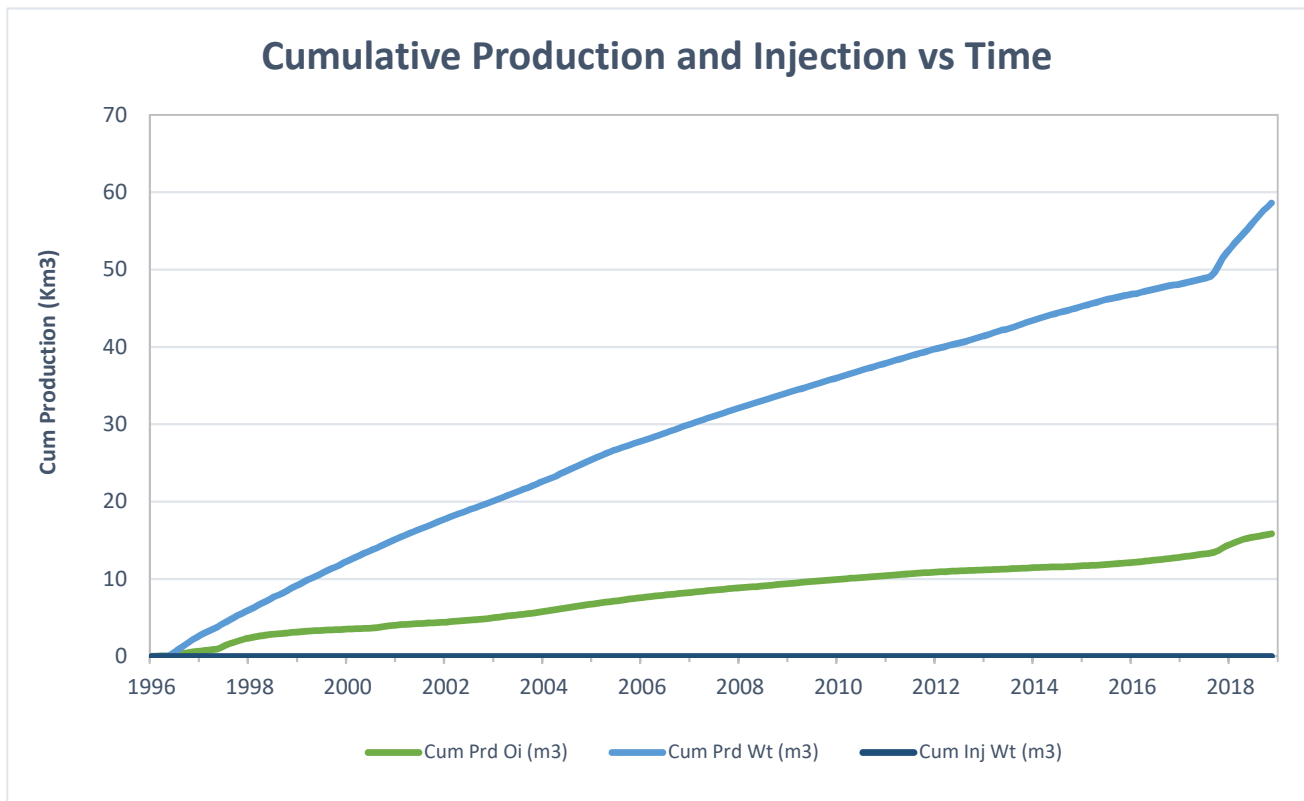
a) Monthly oil and water production rates, injection rate, GOR and WOR

| 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 | 8.97 | 23.12 | 0.00 | 2.58 | 0 |
| Feb-2018 | 8.06 | 21.68 | 0.00 | 2.69 | 0 |
| Mar-2018 | 6.66 | 20.23 | 0.00 | 3.04 | 0 |
| Apr-2018 | 6.48 | 19.30 | 0.00 | 2.98 | 0 |
| May-2018 | 6.37 | 19.63 | 0.00 | 3.08 | 0 |
| Jun-2018 | 4.75 | 18.74 | 0.00 | 3.94 | 0 |
| Jul-2018 | 4.05 | 19.48 | 0.00 | 4.81 | 0 |
| Aug-2018 | 2.83 | 20.70 | 0.00 | 7.32 | 0 |
| Sep-2018 | 2.77 | 20.61 | 0.00 | 7.45 | 0 |
| Oct-2018 | 2.85 | 19.76 | 0.00 | 6.93 | 0 |
| Nov-2018 | 3.30 | 15.55 | 0.00 | 4.71 | 0 |
| Dec-2018 | 3.66 | 16.38 | 0.00 | 4.47 | 0 |

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

| 2018 PRODUCTION | |
|----------------------------------|--------|
| Produced Oil (m ³) | 1,842 |
| Produced Gas (m ³) | 0 |
| Produced Water (m ³) | 7,151 |
| Fluid Injected (m ³) | 0 |
| CUMULATIVE PRODUCTION | |
| Produced Oil (m ³) | 15,858 |
| Produced Water (m ³) | 58,620 |

Kola Unit No. 3



c) Well List**Kola Unit No. 3 Well List**

| <i>UWI</i> | <i>Type</i> | <i>Status</i> | <i>Future Plans</i> |
|----------------------|--------------------|----------------------|----------------------------|
| 100/07-28-010-29W1/0 | Vertical | Abandoned | - |
| 100/09-28-010-29W1/0 | Horizontal | Producing | - |
| 100/14-28-010-29W1/0 | Vertical | Pumping | - |
| 100/15-28-010-29W1/0 | Vertical | Pumping | - |