

North Ebor Unit No. 1

Waterflood Progress Report 2019

January 1st through December 31st 2019

Prepared for:

Manitoba Industry, Economic Development and Mines

Petroleum Branch

Prepared by:

Tundra Oil and Gas

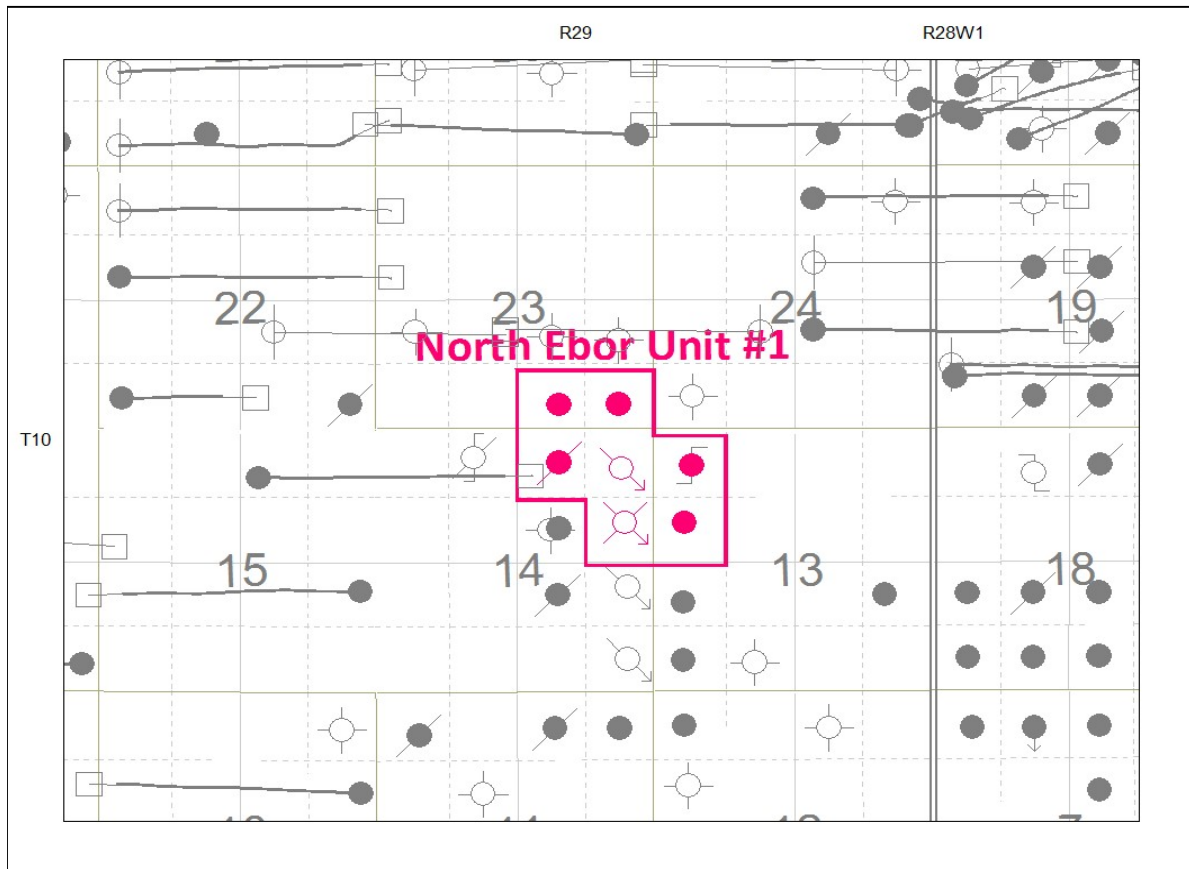
March 17, 2020

INTRODUCTION

North Ebor Unit No. 1 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Board Order No. PM 62 effective July 1, 1990 with Tundra Oil and Gas as Operator. The EOR project area, outlined in Figure 1, contains 7 wells over 7 LSDs in Township 10, Range 29 W1.

This unit is currently not on injection.

Figure 1: North Ebor Unit No. 1 Area Outline



North Ebor Unit No. 1

Tundra Oil and Gas (Tundra), as the operator of the North Ebor Unit No. 1 Enhanced Oil Recovery (EOR) project hereby submits the 2019 EOR report as per section 73 of the Drilling and Production Regulations.

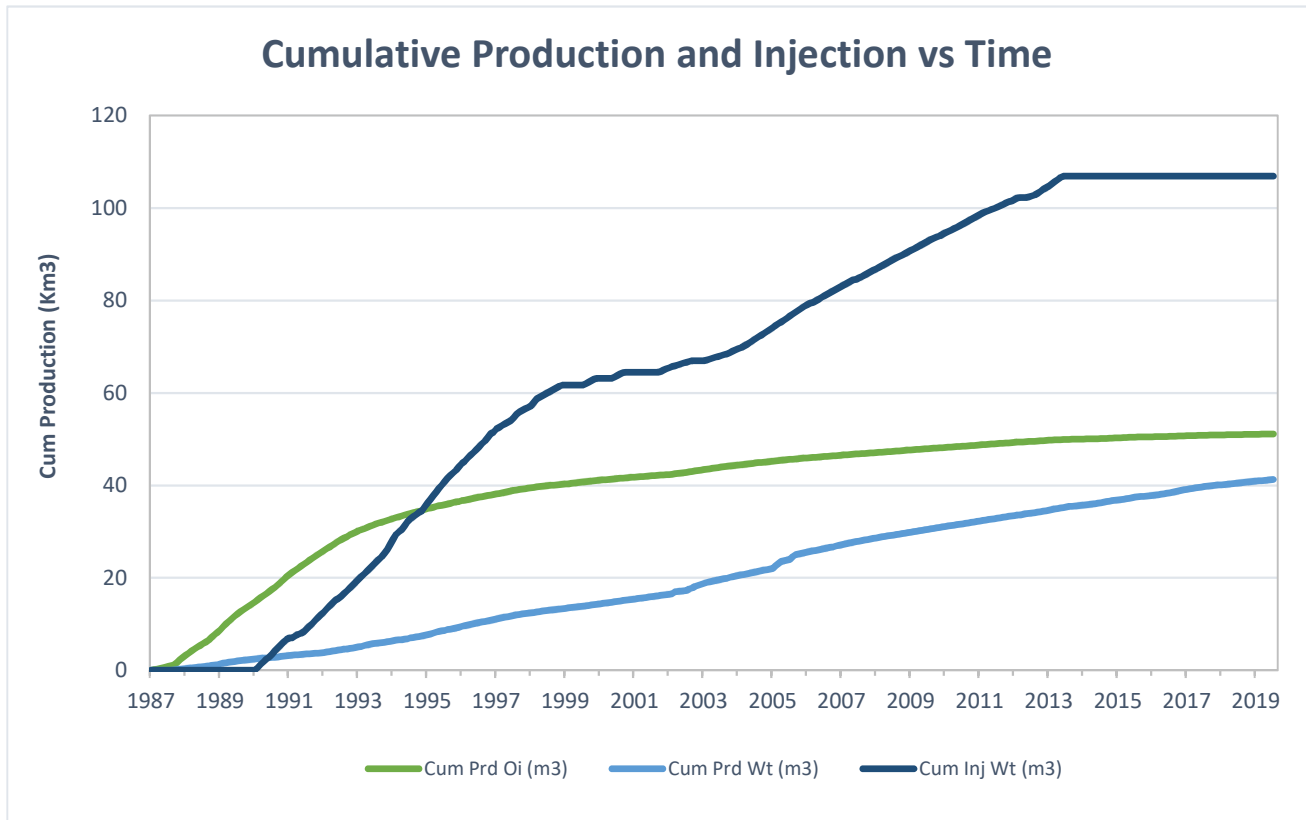
a) Monthly oil and water production rates, injection rate, GOR and WOR

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-2019	0.39	2.29	0.00	5.92	0
Feb-2019	0.40	2.26	0.00	5.69	0
Mar-2019	0.39	2.13	0.00	5.46	0
Apr-2019	0.38	2.07	0.00	5.39	0
May-2019	0.40	2.20	0.00	5.51	0
Jun-2019	0.40	2.24	0.00	5.66	0
Jul-2019	0.39	2.12	0.00	5.43	0
Aug-2019	0.29	1.56	0.00	5.32	0
Sep-2019	0.40	2.03	0.00	5.08	0
Oct-2019	0.39	2.03	0.00	5.19	0
Nov-2019	0.42	2.11	0.00	5.06	0
Dec-2019	0.39	2.03	0.00	5.23	0

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

2019 PRODUCTION	
Produced Oil (m ³)	141
Produced Gas (m ³)	0
Produced Water (m ³)	762
Fluid Injected (m ³)	0
CUMULATIVE PRODUCTION	
Produced Oil (m ³)	51,128
Produced Water (m ³)	41,272

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c) Well List

North Ebor Unit No. 1 Well List

<i>UWI</i>	<i>Type</i>	<i>Status</i>	<i>Future Plans</i>
100/12-13-010-29W1/0	Vertical	Producing	-
100/13-13-010-29W1/0	Vertical	Abandoned	-
100/09-14-010-29W1/0	Vertical	Abandoned	-
100/15-14-010-29W1/0	Vertical	Abandoned	-
100/16-14-010-29W1/0	Vertical	Injection	-
100/01-23-010-29W1/0	Vertical	Pumping	-
100/02-23-010-29W1/0	Vertical	Producing	-

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d) Discussion

Water injection started in June 1990 in the two injector's 00/09-14 and 00/16-14-010-29W1/0. The 00/09-14 injector has been abandoned since September 1998, and water was only being injected through the 00/16-14 injector. In November 2013, the 00/16-14 vertical injector was suspended pending system modifications.