

CROMER UNIT NO. 2

Waterflood Progress Report 2020

Prepared for:

Manitoba Industry, Economic Development and Mines

Petroleum Branch

Prepared by:



TUNDRA OIL & GAS

Date: 2021-08-26

## Introduction

Cromer Unit No. 2 Enhanced Oil Recovery (EOR) Waterflood Project was approved on June 30, 2016 with Tundra Oil and Gas as Operator. The EOR project area contains wells in 38 LSDs in Township 9, Range 28W1. This unit is currently not on injection. The Unit contains 26 wells. 12 producers, 0 injectors, and 14 abandoned/suspended/other.

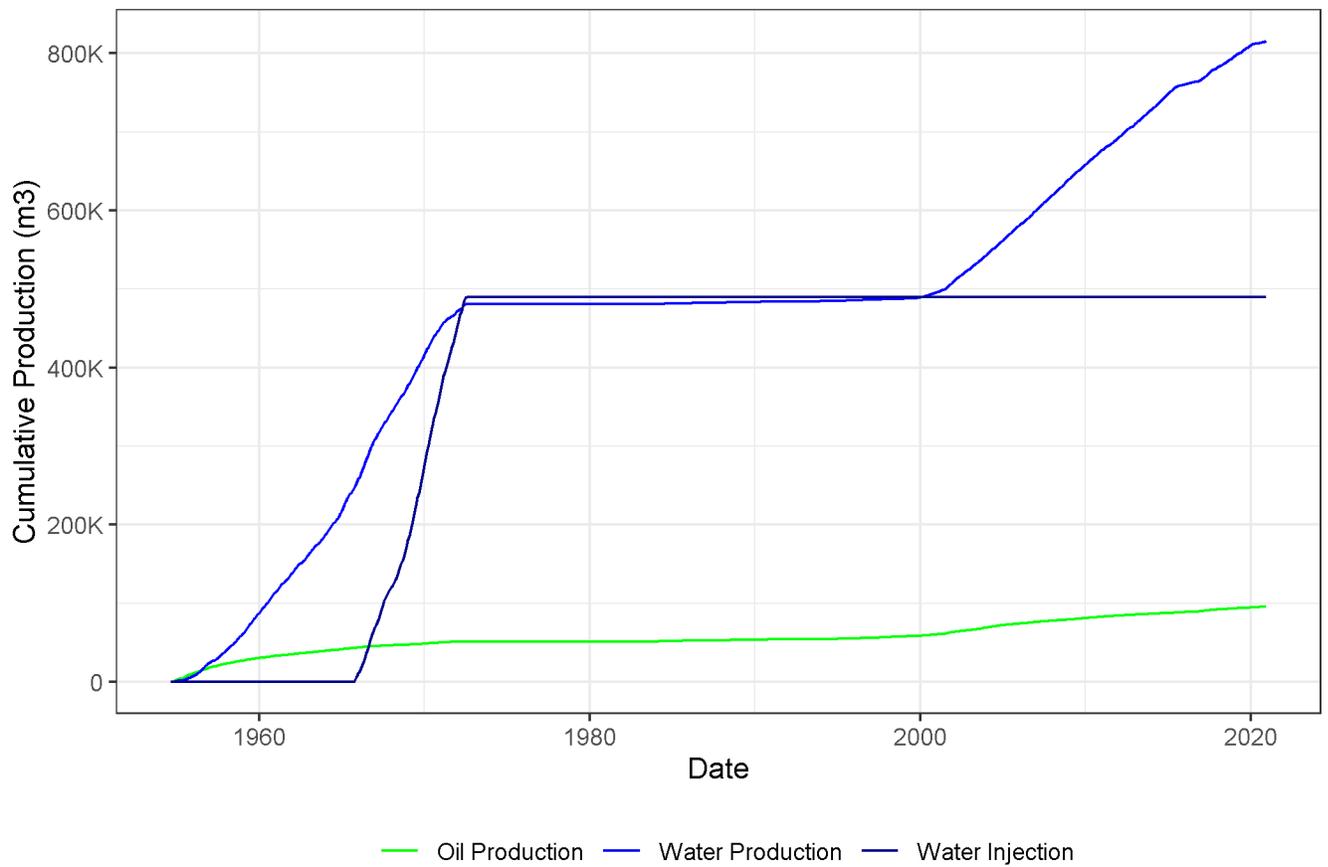
## Monthly oil and water production rates, injection rate, GOR and WOR

MONTH	Cal Day Oil m3/d	Cal Day Water m3/d	Cal Day Injection m3/d	WOR	GOR
JAN 2020	4.63	41.17	0	8.89	0
FEB 2020	4.22	32.07	0	7.60	0
MAR 2020	4.29	13.50	0	3.15	0
APR 2020	3.67	13.99	0	3.81	0
MAY 2020	3.54	13.50	0	3.81	0
JUN 2020	1.92	7.12	0	3.71	0
JUL 2020	2.58	10.25	0	3.97	0
AUG 2020	3.26	12.02	0	3.69	0
SEP 2020	3.01	13.57	0	4.51	0
OCT 2020	3.23	16.85	0	5.22	0
NOV 2020	3.10	16.05	0	5.18	0
DEC 2020	3.04	16.15	0	5.31	0
Average	3.37	17.19	0		

## Year summary of produced oil, gas, water and fluid injected

Categories	m3
Oil Production	1,235
Water Production	6,278
Gas Production	0
Water Injection	0
Cumulative Oil	95,855
Cumulative Water	815,255
Cumulative Injection	489,883

### Cumulative Production and Injection



Monthly Wellhead Pressure

NO INJECTION

Monthly Injected Volumes

NO INJECTION

## Voidage

All Volumes are in m3 Oil Formation Volume Factor (Rm3/Sm3) = 1.05

MONTH	Oil	Water Injection	Cumulative Oil	Cumulative Water	Cumulative Injection	VRR	Cumulative VRR	
JAN 2020	143	1,276	0	94,779	810,263	489,884	0	0.538
FEB 2020	122	930	0	94,901	811,193	489,884	0	0.538
MAR 2020	133	418	0	95,034	811,611	489,884	0	0.538
APR 2020	110	420	0	95,144	812,031	489,884	0	0.537
MAY 2020	110	419	0	95,254	812,450	489,884	0	0.537
JUN 2020	58	214	0	95,312	812,664	489,884	0	0.537
JUL 2020	80	317	0	95,392	812,981	489,884	0	0.536
AUG 2020	101	373	0	95,493	813,354	489,884	0	0.536
SEP 2020	90	407	0	95,583	813,761	489,884	0	0.536
OCT 2020	100	522	0	95,683	814,283	489,884	0	0.536
NOV 2020	93	482	0	95,776	814,765	489,884	0	0.535
DEC 2020	94	500	0	95,870	815,265	489,884	0	0.535

## Workovers

UWI	Date	Description
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## Well List

UWI	Type	Status
100.09-11-009-28W1.00	Vertical	Abandoned
100.15-11-009-28W1.00	Vertical	Abandoned
100.16-11-009-28W1.00	Vertical	Abandoned Zone
100.14-13-009-28W1.00	Vertical	Abandoned Zone
100.02-14-009-28W1.00	Vertical	Abandoned
100.03-14-009-28W1.00	Vertical	Abandoned
100.05-14-009-28W1.00	Vertical	Abandoned Zone
100.06-14-009-28W1.00	Vertical	Abandoned
102.06-14-009-28W1.00	Vertical	Commingled
100.10-14-009-28W1.02	Vertical	Commingled
100.12-14-009-28W1.00	Vertical	Suspended
100.13-14-009-28W1.02	Vertical	Abandoned
100.14-14-009-28W1.02	Vertical	Commingled
100.02-23-009-28W1.00	Vertical	Commingled
100.03-23-009-28W1.02	Vertical	Producing
100.04-23-009-28W1.00	Vertical	Abandoned
100.04-23-009-28W1.02	Vertical	Commingled
100.05-23-009-28W1.02	Vertical	Abandoned
100.06-23-009-28W1.00	Vertical	Commingled
100.07-23-009-28W1.00	Vertical	Pumping
100.10-23-009-28W1.00	Vertical	Producing
100.11-23-009-28W1.02	Vertical	Producing
100.12-23-009-28W1.02	Vertical	Pumping
100.13-23-009-28W1.02	Vertical	Pumping
100.14-23-009-28W1.02	Vertical	Pumping
100.15-23-009-28W1.00	Vertical	Producing