


WASKADA UNIT NO. 20
Waterflood Progress Report 2020

Prepared for:
Manitoba Industry, Economic Development and Mines
Petroleum Branch

Prepared by:
 **TUNDRA OIL & GAS**

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Introduction

Waskada Unit No. 20 Enhanced Oil Recovery (EOR) Waterflood Project was approved February 1, 2017. Waskada Unit No. 20 area contains wells in 29 Legal Sub Divisions (LSD) in Township 1, Range 25 W1. The Unit contains 67 wells. 25 producers, 0 injectors, and 42 abandoned/suspended/other.

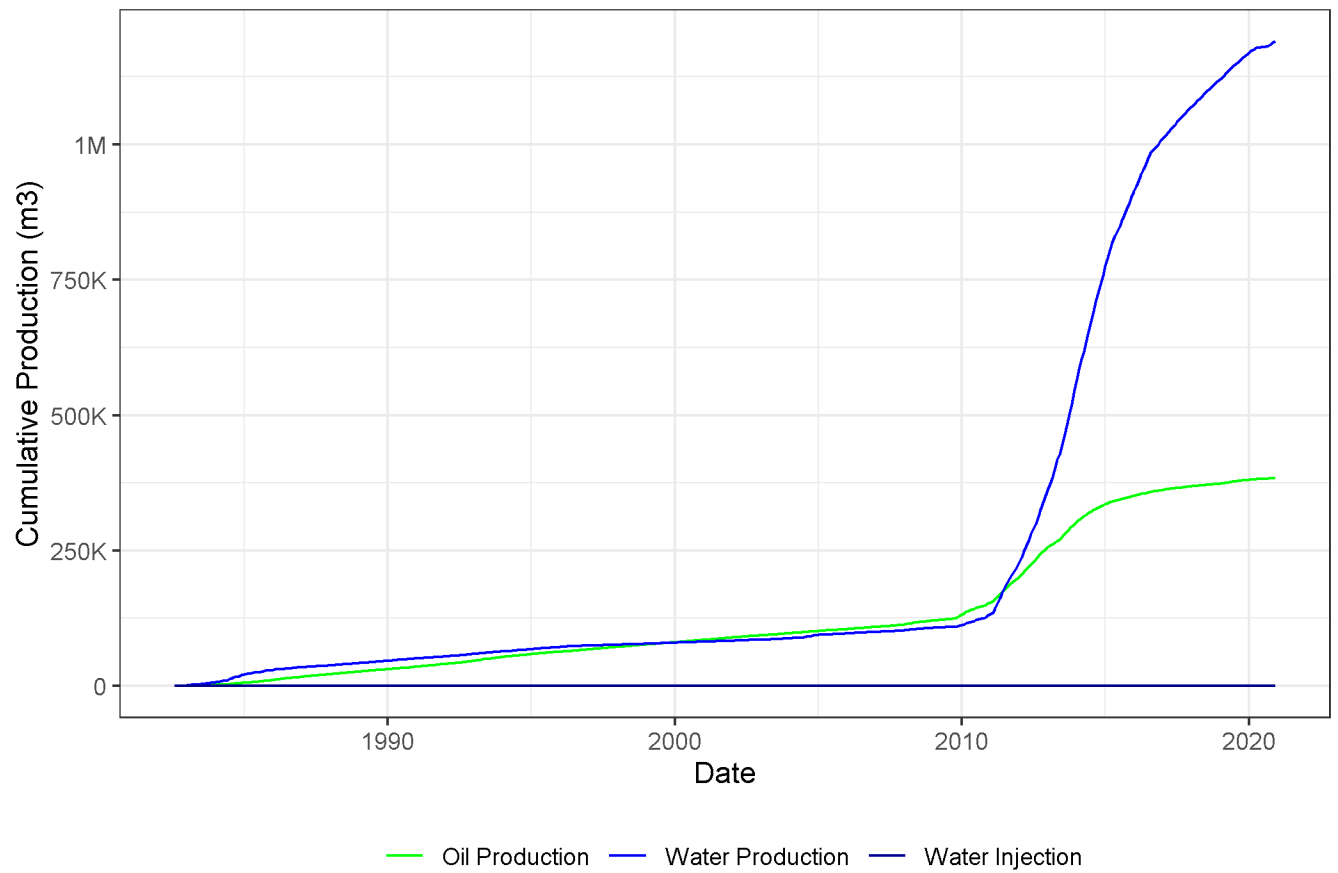
Monthly oil and water production rates, injection rate, GOR and WOR

MONTH	Cal Day Oil m3/d	Cal Day Water m3/d	Cal Day Injection m3/d	WOR	GOR
JAN 2020	14.97	110.86	0	7.41	0
FEB 2020	13.93	117.71	0	8.45	0
MAR 2020	12.65	83.72	0	6.62	0
APR 2020	10.54	101.73	0	9.65	0
MAY 2020	1.28	11.57	0	9.04	0
JUN 2020	6.39	22.50	0	3.52	0
JUL 2020	9.05	25.48	0	2.82	0
AUG 2020	8.55	23.81	0	2.78	0
SEP 2020	7.75	31.36	0	4.05	0
OCT 2020	8.73	102.32	0	11.72	0
NOV 2020	7.85	90.82	0	11.57	0
DEC 2020	7.70	74.87	0	9.72	0
Average	9.12	66.40	0		

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

Categories	m3
Oil Production	3,330
Water Production	24,217
Gas Production	0
Water Injection	0
Cumulative Oil	383,650
Cumulative Water	1,189,937
Cumulative Injection	0

Cumulative Production and Injection



Monthly Wellhead Pressure

NO INJECTION

Monthly Injected Volumes

NO INJECTION

Voidage

NO INJECTION

Workovers

UWI	Date	Description
102.12-33-001-25W1.02	2020-11-23	Rigless Acid Stimulation

Well List

UWI	Type	Status
103.13-21-001-25W1.00	Horizontal	Abandoned Zone
104.13-21-001-25W1.00	Horizontal	Producing
100.01-28-001-25W1.00	Vertical	Producing
102.01-28-001-25W1.00	Horizontal	Suspended
103.01-28-001-25W1.00	Horizontal	Producing
100.02-28-001-25W1.00	Vertical	Producing
102.02-28-001-25W1.00	Horizontal	Producing
100.03-28-001-25W1.00	Vertical	Producing
102.04-28-001-25W1.00	Horizontal	Producing
103.04-28-001-25W1.00	Horizontal	Producing
100.05-28-001-25W1.00	Vertical	Abandoned Zone
102.05-28-001-25W1.00	Horizontal	Producing
103.05-28-001-25W1.00	Horizontal	Producing
100.06-28-001-25W1.00	Vertical	Producing
100.07-28-001-25W1.00	Vertical	Producing
100.08-28-001-25W1.00	Vertical	Producing
102.08-28-001-25W1.00	Horizontal	Producing
103.08-28-001-25W1.00	Horizontal	Producing
104.08-28-001-25W1.00	Horizontal	Producing
102.09-28-001-25W1.00	Horizontal	Producing
103.09-28-001-25W1.00	Horizontal	Abandoned Zone
104.09-28-001-25W1.00	Horizontal	Producing
100.11-28-001-25W1.00	Vertical	Producing
100.12-28-001-25W1.00	Horizontal	Producing
102.12-28-001-25W1.00	Horizontal	Producing
100.13-28-001-25W1.00	Horizontal	Producing
102.13-28-001-25W1.00	Horizontal	Producing
103.13-28-001-25W1.00	Horizontal	Producing
100.16-28-001-25W1.00	Vertical	Abandoned Zone
102.16-28-001-25W1.00	Horizontal	Producing
103.16-28-001-25W1.00	Horizontal	Producing
104.16-28-001-25W1.00	Horizontal	Producing
105.16-28-001-25W1.00	Horizontal	Producing
102.09-32-001-25W1.00	Horizontal	Producing
103.09-32-001-25W1.00	Horizontal	Producing
104.09-32-001-25W1.00	Horizontal	Producing
105.09-32-001-25W1.00	Horizontal	Producing
102.16-32-001-25W1.00	Horizontal	Producing
103.16-32-001-25W1.00	Horizontal	Suspended
104.16-32-001-25W1.00	Horizontal	Producing
100.03-33-001-25W1.00	Horizontal	Producing
102.03-33-001-25W1.02	Horizontal	Suspended
100.04-33-001-25W1.00	Horizontal	Producing

UWI	Type	Status
100.12-33-001-25W1.00	Vertical	Producing
102.12-33-001-25W1.02	Horizontal	Producing
104.12-33-001-25W1.00	Horizontal	Producing
102.13-33-001-25W1.00	Horizontal	Producing
103.13-33-001-25W1.00	Horizontal	Producing
104.13-33-001-25W1.00	Horizontal	Producing
100.13-21-001-25W1.00	Vertical	Abandoned
100.04-28-001-25W1.00	Vertical	Abandoned
100.09-28-001-25W1.00	Vertical	Abandoned
100.10-28-001-25W1.00	Vertical	Abandoned
100.09-32-001-25W1.00	Vertical	Abandoned Zone
100.10-32-001-25W1.00	Vertical	Abandoned
100.15-32-001-25W1.00	Vertical	Abandoned Zone
100.16-32-001-25W1.00	Vertical	Abandoned
103.03-33-001-25W1.00	Horizontal	Producing
102.04-33-001-25W1.00	Horizontal	Producing
103.04-33-001-25W1.00	Horizontal	Producing
100.05-33-001-25W1.00	Vertical	Abandoned
100.06-33-001-25W1.2	Vertical	Abandoned
100.11-33-001-25W1.00	Vertical	Abandoned
102.12-33-001-25W1.2	Horizontal	Producing
103.12-33-001-25W1.00	Horizontal	Producing
100.13-33-001-25W1.00	Vertical	Abandoned Zone
102.14-33-001-25W1.00	Vertical	Abandoned Zone