

WASKADA UNIT NO. 7 - PM 58

Waterflood Progress Report 2020

Prepared for:

Manitoba Industry, Economic Development and Mines

Petroleum Branch

Prepared by:



Date: 2021-08-26

Introduction

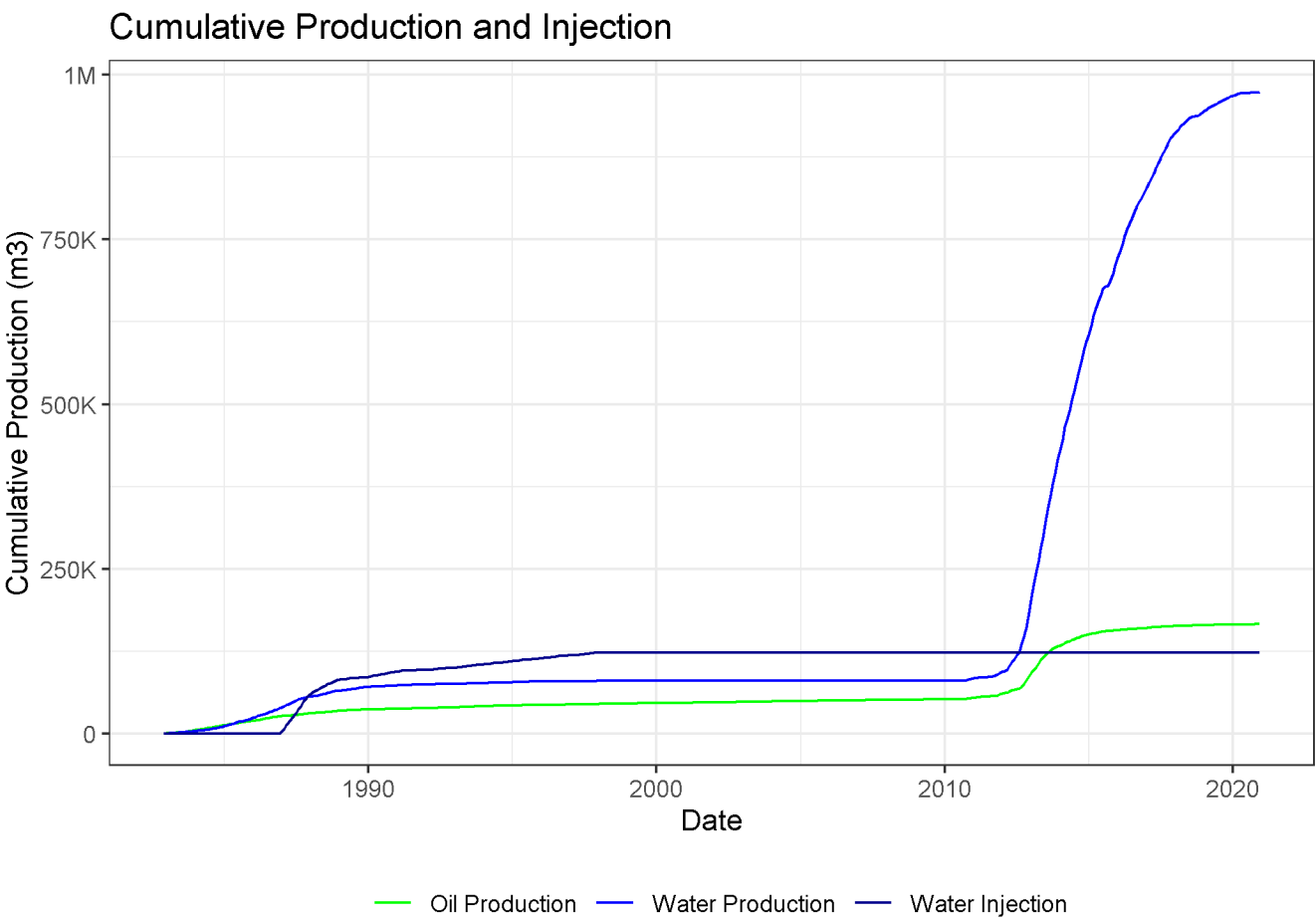
Waskada Unit No. 7 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Board Order No. PM 58 effective January 1987. The Unit area contains wells in 19 LSDs in Township 1 Range 25 W1. The Unit contains 39 wells. 7 producers, 0 injectors, and 32 abandoned/suspended/other.

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	2.62	48.35	0	18.45	0
FEB 2020	2.46	47.08	0	19.14	0
MAR 2020	2.08	41.16	0	19.79	0
APR 2020	1.72	35.97	0	20.91	0
JUL 2020	0.09	3.36	0	37.33	0
AUG 2020	0.63	21.40	0	33.97	0
SEP 2020	0.11	1.14	0	10.36	0
OCT 2020	1.54	7.50	0	4.87	0
NOV 2020	1.43	9.48	0	6.63	0
DEC 2020	1.49	8.46	0	5.68	0
Average	1.42	22.39	0		

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

Categories	m3
Oil Production	431
Water Production	6,800
Gas Production	0
Water Injection	0
Cumulative Oil	166,208
Cumulative Water	973,456
Cumulative Injection	123,436



Monthly Wellhead Pressure

NO INJECTION

Monthly Injected Volumes

NO INJECTION

Voidage

All Volumes are in m3 Oil Formation Volume Factor (Rm3/Sm3) = 1.17								
MONTH	Oil	Water	Injection	Cumulative Oil	Cumulative Water	Cumulative Injection	VRR	Cumulative VRR
JAN 2020	81	1,498	0	165,850	968,157	123,434	0	0.106
FEB 2020	71	1,365	0	165,921	969,522	123,434	0	0.106
MAR 2020	65	1,275	0	165,986	970,797	123,434	0	0.106
APR 2020	52	1,079	0	166,038	971,876	123,434	0	0.106
JUL 2020	3	104	0	166,041	971,980	123,434	0	0.106
AUG 2020	20	663	0	166,061	972,643	123,434	0	0.106
SEP 2020	3	34	0	166,064	972,677	123,434	0	0.106
OCT 2020	48	232	0	166,112	972,909	123,434	0	0.106
NOV 2020	43	284	0	166,155	973,193	123,434	0	0.106
DEC 2020	46	262	0	166,201	973,455	123,434	0	0.106

Workovers

UWI	Date	Description
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Well List

UWI	Type	Status
100.11-17-001-25W1.00	Vertical	Abandoned
102.11-17-001-25W1.00	Horizontal	Suspended
103.11-17-001-25W1.00	Horizontal	Producing
100.12-17-001-25W1.00	Vertical	Abandoned
100.13-17-001-25W1.00	Vertical	Abandoned
100.14-17-001-25W1.00	Vertical	Abandoned
102.14-17-001-25W1.00	Horizontal	Producing
103.14-17-001-25W1.00	Horizontal	Producing
104.14-17-001-25W1.00	Horizontal	Producing
100.01-18-001-25W1.00	Vertical	Abandoned
102.01-18-001-25W1.00	Horizontal	Producing
103.01-18-001-25W1.00	Horizontal	Suspended
104.01-18-001-25W1.00	Horizontal	Suspended
100.02-18-001-25W1.00	Vertical	Abandoned
100.07-18-001-25W1.02	Vertical	Abandoned
100.08-18-001-25W1.00	Vertical	Abandoned
100.09-18-001-25W1.00	Vertical	Abandoned
102.09-18-001-25W1.00	Horizontal	Suspended
100.16-18-001-25W1.00	Vertical	Abandoned
100.08-19-001-25W1.02	Vertical	Abandoned
100.03-20-001-25W1.00	Vertical	Abandoned
102.03-20-001-25W1.00	Horizontal	Suspended
103.03-20-001-25W1.00	Horizontal	Producing
104.03-20-001-25W1.00	Horizontal	Suspended
105.03-20-001-25W1.00	Horizontal	Producing
100.05-20-001-25W1.00	Vertical	Abandoned
102.05-20-001-25W1.00	Horizontal	Producing
103.05-20-001-25W1.00	Horizontal	Producing
100.06-20-001-25W1.00	Vertical	Abandoned Zone
100.11-20-001-25W1.00	Vertical	Producing
104.12-20-001-25W1.00	Horizontal	Producing
100.13-20-001-25W1.02	Vertical	Abandoned
102.13-20-001-25W1.00	Horizontal	Producing
103.13-20-001-25W1.00	Horizontal	Producing
100.14-20-001-25W1.00	Vertical	Abandoned Zone
100.15-20-001-25W1.00	Vertical	Abandoned
100.16-20-001-25W1.00	Vertical	Abandoned
102.16-20-001-25W1.00	Horizontal	Producing
103.16-20-001-25W1.00	Horizontal	Producing