

WASKADA UNIT NO. 14 - 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. 14 Enhanced Oil Recovery (EOR) Waterflood Project was approved under Board Order No. PM 58 effective February 1988. The Unit area contains wells in 8 LSDs in Township 1, Range 25 W1. The Unit contains 18 wells. 5 producers, 0 injectors, and 13 abandoned/suspended/other.

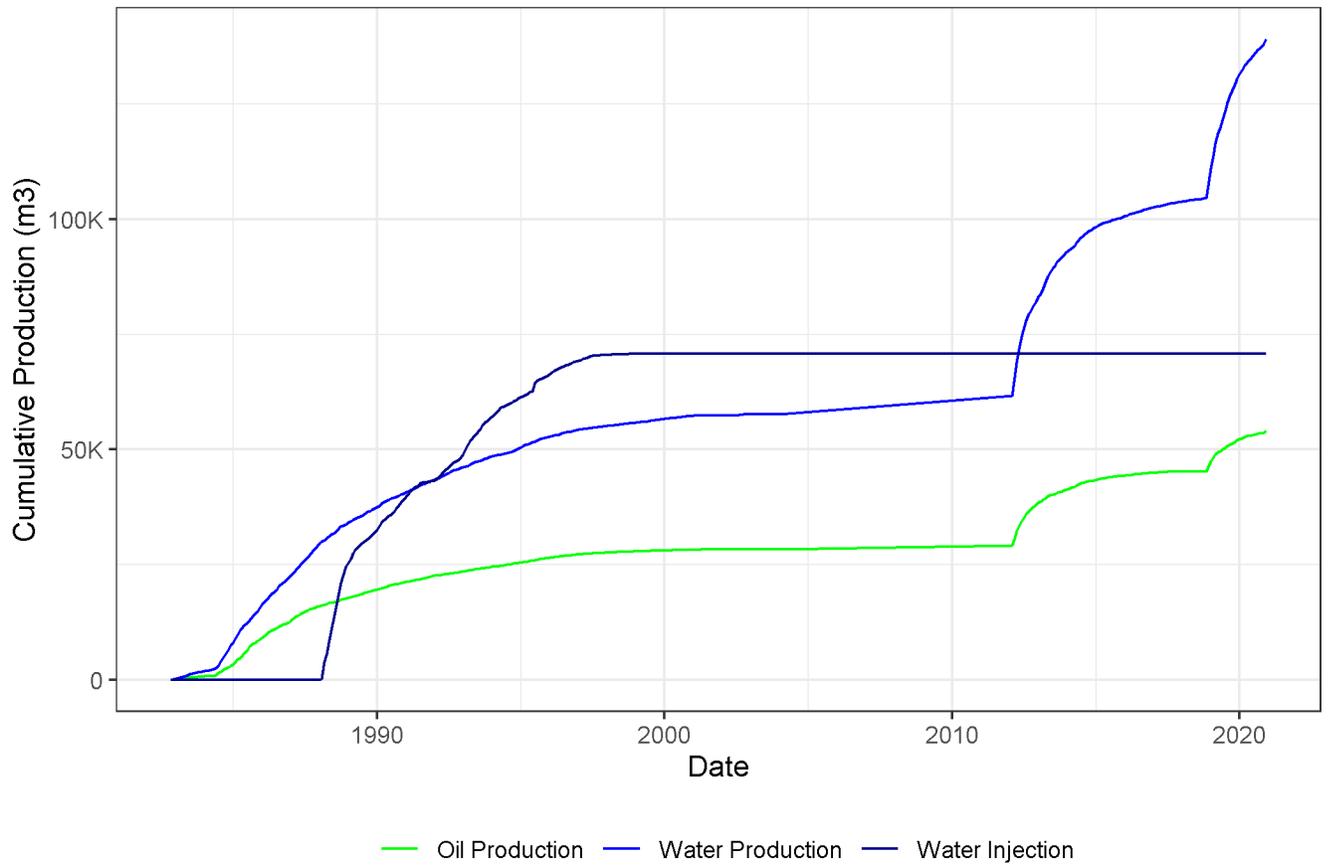
Monthly oil and water production rates, injection rate, GOR and WOR

MONTH	Cal Day Oil m3/d	Cal Day Water m3/d	Cal Day Injection m3/d	WOR	GOR
JAN 2020	9.59	34.09	0	3.55	0
FEB 2020	8.14	30.54	0	3.75	0
MAR 2020	7.14	28.19	0	3.95	0
APR 2020	6.95	26.24	0	3.78	0
MAY 2020	2.47	10.56	0	4.28	0
JUN 2020	5.50	23.65	0	4.30	0
JUL 2020	4.90	24.15	0	4.93	0
AUG 2020	3.62	19.78	0	5.46	0
SEP 2020	2.62	15.15	0	5.78	0
OCT 2020	2.35	14.44	0	6.14	0
NOV 2020	4.22	20.15	0	4.77	0
DEC 2020	10.09	35.21	0	3.49	0
Average	5.63	23.51	0		

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

Categories	m3
Oil Production	2,060
Water Production	8,600
Gas Production	0
Water Injection	0
Cumulative Oil	54,003
Cumulative Water	139,026
Cumulative Injection	70,846

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) = 1.17

MONTH	Oil	Water Injection	Cumulative Oil	Cumulative Water	Cumulative Injection	VRR	Cumulative VRR	
JAN 2020	297	1,057	0	52,243	131,487	70,843	0	0.368
FEB 2020	236	886	0	52,479	132,373	70,843	0	0.366
MAR 2020	222	874	0	52,701	133,247	70,843	0	0.363
APR 2020	208	787	0	52,909	134,034	70,843	0	0.362
MAY 2020	76	327	0	52,985	134,361	70,843	0	0.361
JUN 2020	165	709	0	53,150	135,070	70,843	0	0.359
JUL 2020	152	749	0	53,302	135,819	70,843	0	0.357
AUG 2020	112	613	0	53,414	136,432	70,843	0	0.356
SEP 2020	79	454	0	53,493	136,886	70,843	0	0.355
OCT 2020	73	448	0	53,566	137,334	70,843	0	0.354
NOV 2020	127	605	0	53,693	137,939	70,843	0	0.353
DEC 2020	313	1,091	0	54,006	139,030	70,843	0	0.350

Workovers

UWI	Date	Description
102.06-32-001-25W1.00	2020-11-13	Rigless Acid Stimulation
103.03-32-001-25W1.00	2020-12-01	Rigless Acid Stimulation
103.06-32-001-25W1.00	2020-11-13	Rigless Acid Stimulation
104.03-32-001-25W1.00	2020-12-07	Rigless Acid Stimulation

Well List

UWI	Type	Status
100.01-32-001-25W1.00	Vertical	Abandoned
102.01-32-001-25W1.00	Horizontal	Producing
103.01-32-001-25W1.00	Horizontal	Producing
104.01-32-001-25W1.00	Horizontal	Producing
100.02-32-001-25W1.00	Vertical	Abandoned
102.03-32-001-25W1.00	Vertical	Abandoned
103.03-32-001-25W1.00	Horizontal	Producing
104.03-32-001-25W1.00	Horizontal	Producing
100.04-32-001-25W1.00	Vertical	Abandoned Zone
100.05-32-001-25W1.00	Vertical	Abandoned
100.06-32-001-25W1.00	Vertical	Abandoned
102.06-32-001-25W1.00	Horizontal	Producing
103.06-32-001-25W1.00	Horizontal	Producing
100.07-32-001-25W1.00	Vertical	Abandoned
100.08-32-001-25W1.02	Vertical	Abandoned
102.08-32-001-25W1.00	Horizontal	Producing
103.08-32-001-25W1.00	Horizontal	Suspended
104.08-32-001-25W1.00	Horizontal	Producing