

NORTH VIRDEN SCALLION UNIT NO. 3

Waterflood Progress Report 2020

Prepared for:

Manitoba Industry, Economic Development and Mines

Petroleum Branch

Prepared by:



TUNDRA OIL & GAS

Date: 2021-08-26

Introduction

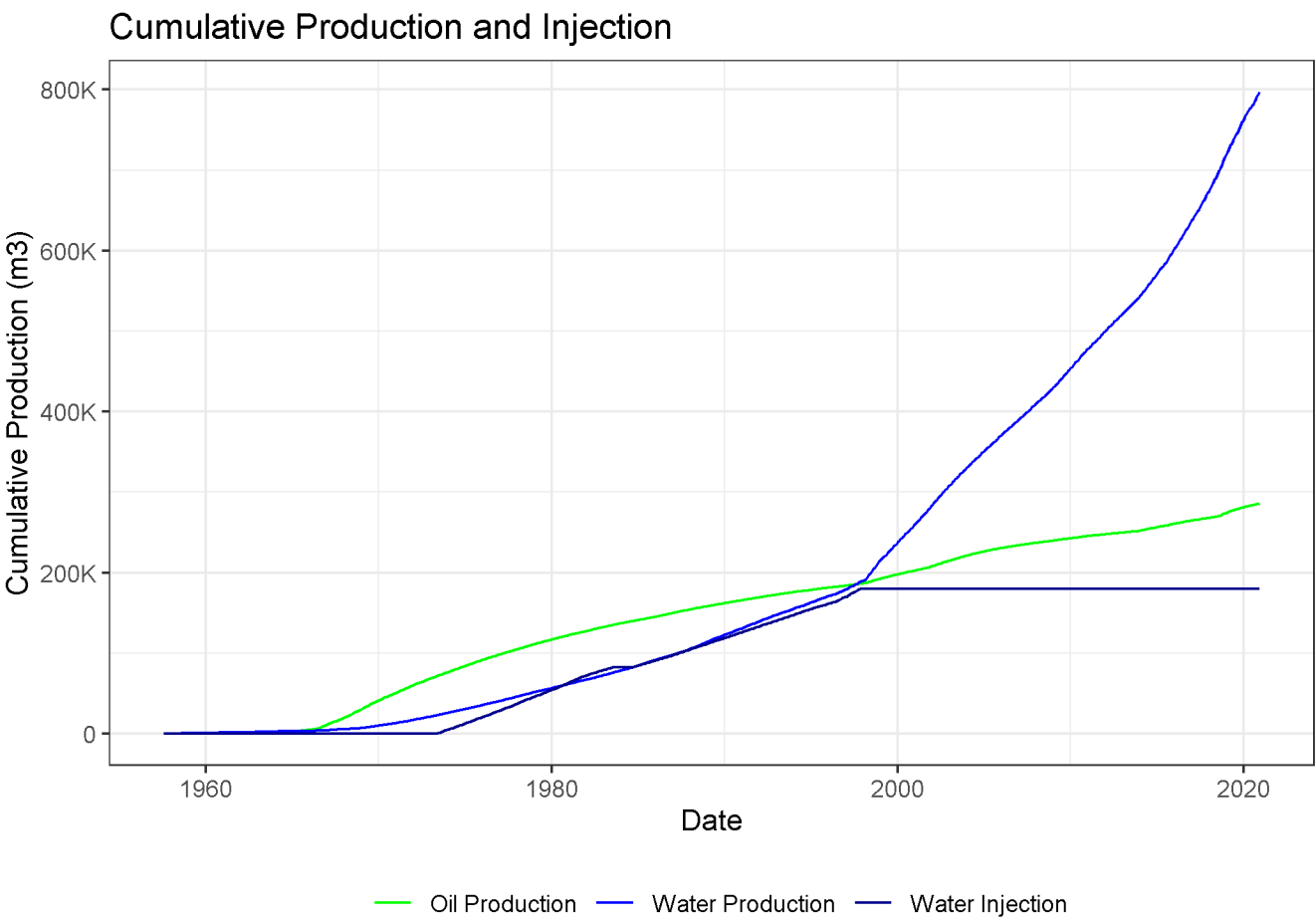
North Virlden Scallion Unit 3 Enhanced Oil Recovery (EOR) Waterflood Project was approved effective April 1, 2019 with Tundra Oil and Gas as Operator. The EOR project area includes wells over 14 LSDs in Township 11, Range 26 W1. The Unit contains 26 wells. 11 producers, 0 injectors, and 15 abandoned/suspended/other.

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	16.31	121.39	0	7.44	0
FEB 2020	15.36	117.78	0	7.67	0
MAR 2020	16.47	117.96	0	7.16	0
APR 2020	16.98	123.25	0	7.26	0
MAY 2020	12.06	75.80	0	6.29	0
JUN 2020	12.03	53.23	0	4.42	0
JUL 2020	13.09	88.41	0	6.75	0
AUG 2020	12.76	93.04	0	7.29	0
SEP 2020	13.91	102.45	0	7.37	0
OCT 2020	14.80	120.71	0	8.16	0
NOV 2020	14.23	119.58	0	8.40	0
DEC 2020	13.87	114.66	0	8.27	0
Average	14.32	104.02	0		

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

Categories	m3
Oil Production	5,239
Water Production	38,060
Gas Production	0
Water Injection	0
Cumulative Oil	286,054
Cumulative Water	796,778
Cumulative Injection	179,597



Monthly Wellhead Pressure

NO INJECTION

Monthly Injected Volumes

NO INJECTION

Voidage

All Volumes are in m3 Oil Formation Volume Factor (Rm3/Sm3) = 1.057

MONTH	Oil	Water	Injection	Cumulative Oil	Cumulative Water	Cumulative Injection	VRR	Cumulative VRR
JAN 2020	506	3,763	0	281,305	762,480	179,601	0	0.169
FEB 2020	446	3,416	0	281,751	765,896	179,601	0	0.169
MAR 2020	511	3,657	0	282,262	769,553	179,601	0	0.168
APR 2020	510	3,698	0	282,772	773,251	179,601	0	0.168
MAY 2020	374	2,350	0	283,146	775,601	179,601	0	0.167
JUN 2020	361	1,597	0	283,507	777,198	179,601	0	0.167
JUL 2020	406	2,741	0	283,913	779,939	179,601	0	0.166
AUG 2020	395	2,884	0	284,308	782,823	179,601	0	0.166
SEP 2020	417	3,073	0	284,725	785,896	179,601	0	0.165
OCT 2020	459	3,741	0	285,184	789,637	179,601	0	0.165
NOV 2020	427	3,587	0	285,611	793,224	179,601	0	0.164
DEC 2020	429	3,554	0	286,040	796,778	179,601	0	0.163

Workovers

UWI	Date	Description
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Well List

UWI	Type	Status
103.16-19-011-26W1.00	Horizontal	Producing
100.03-29-011-26W1.00	Vertical	Abandoned Zone
102.03-29-011-26W1.00	Horizontal	Producing
103.03-29-011-26W1.00	Horizontal	Producing
100.04-29-011-26W1.00	Vertical	Abandoned
102.04-29-011-26W1.02	Horizontal	Potential
100.05-29-011-26W1.00	Vertical	Abandoned
102.05-29-011-26W1.00	Vertical	Abandoned
100.07-29-011-26W1.00	Horizontal	Producing
100.10-29-011-26W1.03	Horizontal	Producing
100.16-29-011-26W1.02	Horizontal	Producing
100.01-30-011-26W1.00	Vertical	Abandoned
102.01-30-011-26W1.00	Vertical	Abandoned
100.02-30-011-26W1.00	Vertical	Abandoned Zone
100.03-30-011-26W1.00	Vertical	Producing
102.03-30-011-26W1.02	Horizontal	Disposal
100.06-30-011-26W1.00	Vertical	Producing
100.07-30-011-26W1.00	Vertical	Abandoned Zone
102.07-30-011-26W1.00	Horizontal	Pumping
103.07-30-011-26W1.00	Horizontal	Producing
103.07-30-011-26W1.02	Horizontal	Producing
100.08-30-011-26W1.00	Vertical	Abandoned
100.11-30-011-26W1.00	Vertical	Abandoned
102.11-30-011-26W1.00	Vertical	Pumping
100.14-30-011-26W1.00	Vertical	Abandoned
102.14-30-011-26W1.00	Horizontal	Producing