Facility Well Name Northern (Bushton) #1 **UIC Permit #** KS-01-159-003 **Month** March **Year** 2022

Submitted 04/15/2022 **Approved** 04/27/2022 **KOLAR Document ID** 1639487

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 13

Barrels per Day Maximum: 3,840

			Annulus Pressure psig min 60		Injection Pressure		
	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Gauge psig	Cont. Record psig	Gauge psig	Cont. Record psig	Amount Added to Seal Pot
Monthly Average	26	0.04	134	129	-25.5	-23.5	0
Monthly Maximum	157	1.31	136	133	-18.0	-16.4	0
Monthly Minimum	0	0.00	128	123	-28.0	-25.8	0
Monthly Total	797						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
135.30	119.80	-15.80	-26.00

Comments:

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Daily Recorder Data

Day	Time 24 hr	Injection Volume Barrels Per Day	Injection Rate Barrels Per Minute	Annulus Pressure (Gauge) psig	Annulus Pressure (Continuous Recorder) psig	Injection Pressure (Gauge) + / -	Injection Pressure (Continuous Recorder) + / -	Seal Pot Fluid Level inches	Type of Fluid Added to Seal Pot	Amount of Fluid Added to Seal Pot gallons	Initials of Collector of Field Recordings		
1	10:00	7.45	0.00	135	130.1	-27	-24.5	6	N	0	AR		
2	07:45	0.00	0.00	135	130.2	-27	-24.1	6	N	0	AR		
3	08:15	0.00	0.00	136	130.8	-26	-23.8	6	N	0	AR		
4	07:00	0.00	0.00	135	131.5	-25	-22.1	6	N	0	MU		
5	10:30	0.00	0.00	135	131.7	-24	-22.7	6	N	0	LM		
6	10:30	0.00	0.00	134	129.5	-22	-25.8	6	N	0	MU		
7	06:15	0.00	0.00	135	130.3	-20	-19.2	6	N	0	DJ		
8	09:00	0.00	0.00	135	130.1	-18	-16.4	6	N	0	MW		
9	06:45	8.98	0.00	135	129.9	-26	-23.9	6	N	0	DJ		
10	06:30	0.00	0.00	135	130.8	-22	-21.4	6	N	0	DJ		
11	10:00	0.00	0.00	132	123.5	-23	-21.5	6	N	0	RB		
12	10:30	79.43	0.00	134	128.7	-25	-23.6	6	N	0	RB		
13	08:00	0.00	0.00	135	129.0	-25	-23.0	6	N	0	RB		
14	10:00	0.00	0.00	135	131.8	-22	-21.4	6	N	0	MU		
15	09:00	47.52	1.31	128	123.4	-28	-25.5	6	N	0	MU		
16	11:00	28.45	0.00	136	132.8	-27	-24.1	6	N	0	MU		
17	10:00	0.00	0.00	134	129.1	-25	-23.6	6	N	0	MU		
18	10:00	0.00	0.00	135	130.7	-26	-23.5	6	N	0	LM		
19	09:50	0.00	0.00	135	130.8	-24	-22.6	6	N	0	LM		
20	09:12	147.00	0.00	130	126.9	-28	-24.8	6	N	0	LM		
21	06:15	69.95	0.00	134	129.6	-28	-24.8	6	N	0	RB		
22	09:45	156.69	0.00	132	127.2	-28	-24.8	6	N	0	RB		
23	10:00	0.00	0.00	133	129.3	-28	-24.5	6	N	0	RB		
24	11:00	70.26	0.00	134	128.7	-27	-24.6	6	N	0	RB		
25	06:30	0.00	0.00	135	129.5	-28	-24.5	6	N	0	DJ		
26	13:00	72.62	0.00	135	131.0	-28	-24.7	6	N	0	DJ		
27	12:00	71.43	0.00	130	125.5	-27	-25.1	6	N	0	DJ		
28	08:45	0.00	0.00	134	129.5	-27	-24.5	6	N	0	LM		
29	09:54	15.21	0.00	135	131.2	-27	-24.2	6	N	0	LM		
30	09:59	22.14	0.00	135	130.4	-27	-24.4	6	N	0	LM		
31	07:35	0.00	0.00	135	130.4	-27	-24.7	6	N	0	LM		

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Weekly Injectate Samples

Kansas Lab Certificate Number

Week	Temperature		pH		Chloride				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	53.00	03/08/2022	6.90	03/08/2022	N/A				
2	55.00	03/19/2022	6.99	03/19/2022	N/A				
3	55.00	03/22/2022	7.07	03/22/2022	N/A				
4	59.00	03/28/2022	6.75	03/28/2022	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 02/14/2022
Kansas Lab Certificate Number 1011610146
Lab Name

These samples shall be representative of injection activity and shall therefore be collected on days of injection.

Constituent	Value	Units
Calcium	99.200	mg/l
Chloride	300.000	mg/l
Conductivity	15.300	Mmhos
Diethanolamine	<50.000	mg/l
Iron	19.000	mg/l
Magnesium	13.700	mg/l
Sulfate	25.700	mg/l
Total Alkalinity as CaCO3	288.000	mg/l
Total Dissolved Solids	845.000	mg/l
Total Hardness as CaCO3	304.000	mg/l