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

Submitted 08/21/2022 **Approved** 08/26/2022 **KOLAR Document ID** 1661467

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 7

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	30	0.00	144	139	-26.9	-24.4	0
Monthly Maximum	641	0.00	147	140	-24.0	-23.5	0
Monthly Minimum	0	0.00	132	131	-28.0	-24.8	0
Monthly Total	935						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
140.90	128.20	-22.90	-24.90

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	11:00	0.00	0.00	144	138.4	-28	-24.6	5	N	0	RB		
2	06:06	0.00	0.00	144	138.4	-28	-24.4	5	N	0	RB		
3	11:00	0.00	0.00	143	138.4	-26	-23.5	5	N	0	RB		
4	10:00	640.83	0.00	132	131.0	-24	-24.1	6	N	0	MU		
5	08:00	0.00	0.00	139	136.0	-26	-23.5	6	N	0	MU		
6	09:00	0.00	0.00	142	134.0	-26	-24.3	6	N	0	MU		
7	08:00	0.00	0.00	144	138.4	-26	-23.5	6	N	0	MU		
8	09:30	0.00	0.00	144	138.6	-27	-24.7	5	N	0	LM		
9	08:30	0.00	0.00	144	138.7	-27	-24.8	5	N	0	LM		
10	10:00	0.07	0.00	144	139.0	-27	-24.7	6	N	0	LM		
11	06:00	19.17	0.00	144	139.0	-27	-24.5	6	N	0	RB		
12	06:00	9.00	0.00	144	139.0	-27	-24.7	6	N	0	RB		
13	06:20	0.00	0.00	144	138.6	-27	-24.6	6	N	0	DJ		
14	06:00	0.00	0.00	145	139.3	-27	-24.6	6	N	0	DJ		
15	15:30	0.00	0.00	147	139.4	-27	-24.4	6	N	0	DJ		
16	07:00	0.00	0.00	147	139.1	-27	-24.5	6	N	0	DJ		
17	08:30	0.00	0.00	145	139.5	-27	-24.5	6	N	0	DJ		
18	07:10	0.00	0.00	145	138.8	-27	-24.5	6	N	0	ADR		
19	09:35	0.00	0.00	145	139.5	-26	-24.3	6	N	0	LM		
20	07:50	13.45	0.00	145	139.4	-27	-24.3	6	N	0	ADR		
21	07:40	0.00	0.00	145	139.7	-27	-24.3	6	N	0	ADR		
22	08:00	0.00	0.00	145	139.5	-27	-24.5	6	N	0	MU		
23	09:00	0.00	0.00	145	139.7	-27	-24.3	6	N	0	MU		
24	07:00	0.00	0.00	145	139.3	-27	-24.5	6	N	0	MU		
25	06:00	0.00	0.00	145	139.8	-27	-24.4	6	N	0	DJ		
26	06:00	0.00	0.00	145	139.9	-27	-24.2	6	N	0	DJ		
27	09:40	10.64	0.00	146	139.8	-27	-24.5	6	N	0	DJ		
28	06:30	241.67	0.00	145	139.3	-27	-24.6	6	N	0	DJ		
29	07:00	0.00	0.00	144	138.4	-28	-24.7	6	N	0	RB		
30	07:30	0.00	0.00	146	138.4	-28	-24.8	6	N	0	RB		
31	08:00	0.00	0.00	146	138.4	-28	-24.8	6	N	0	RB		

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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	68.00	07/07/2022	5.17	07/07/2022	N/A				
2	70.00	07/11/2022	5.38	07/11/2022	N/A				
3	69.00	07/19/2022	5.57	07/19/2022	N/A				
4	66.00	07/26/2022	5.98	07/26/2022	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 05/16/2022
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	241.000	mg/l
Chloride	1,430.000	mg/l
Conductivity	15.300	Mmhos
Diethanolamine	<50.000	mg/l
Iron	20.300	mg/l
Magnesium	30.300	mg/l
Sulfate	ND	mg/l
Total Alkalinity as CaCO3	274.000	mg/l
Total Dissolved Solids	3,210.000	mg/l
Total Hardness as CaCO3	726.000	mg/l