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

Submitted 11/10/2022 **Approved** 11/22/2022 **KOLAR Document ID** 1672887

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 3

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	1	0.00	111	111	-25.4	-23.6	0
Monthly Maximum	12	0.00	128	125	-23.0	-22.0	0
Monthly Minimum	0	0.00	107	107	-27.0	-24.4	0
Monthly Total	26						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
125.00	106.70	-21.50	-24.90

Comments:

Northern (Bushton) #1 10/2022

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	07:30	0.00	0.00	110	110.0	-26	-24.0	6	N	0	TM		
2	08:30	0.00	0.00	109	109.0	-26	-24.0	6	N	0	TM		
3	08:30	0.00	0.00	108	108.8	-26	-24.1	6	N	0	MW		
4	13:20	0.00	0.00	110	111.0	-26	-23.8	6	N	0	MW		
5	06:40	0.00	0.00	110	110.2	-26	-23.8	6	N	0	MW		
6	15:10	0.00	0.00	111	111.4	-26	-23.8	6	N	0	DTS		
7	14:30	0.00	0.00	107	108.2	-26	-24.0	6	N	0	DJ		
8	11:00	0.00	0.00	107	107.2	-27	-23.8	6	N	0	DJ		
9	10:30	0.00	0.00	107	108.6	-26	-23.6	6	N	0	DJ		
10	12:15	0.00	0.00	111	111.0	-26	-23.3	6	N	0	LM		
11	08:24	8.10	0.00	110	110.0	-26	-24.3	6	N	0	LM		
12	08:20	0.00	0.00	110	110.0	-26	-23.3	6	N	0	LM		
13	09:28	0.00	0.00	108	108.9	-26	-24.4	6	N	0	LM		
14	08:00	0.00	0.00	107	108.5	-26	-23.4	6	N	0	MU		
15	10:00	0.00	0.00	109	110.0	-26	-24.3	6	N	0	MU		
16	09:00	0.00	0.00	109	109.4	-26	-24.4	6	N	0	MU		
17	06:30	0.00	0.00	107	107.7	-26	-24.2	6	N	0	DJ		
18	06:30	0.00	0.00	117	117.0	-25	-23.5	6	N	0	DJ		
19	10:30	0.00	0.00	120	118.6	-25	-22.6	6	N	0	DJ		
20	14:30	12.07	0.00	128	125.0	-23	-22.0	6	N	0	DJ		
21	08:00	0.00	0.00	112	111.0	-24	-23.0	6	N	0	RB		
22	09:00	0.00	0.00	117	117.0	-24	-23.5	6	N	0	RB		
23	08:30	0.00	0.00	119	117.4	-24	-23.5	6	N	0	RB		
24	07:00	0.00	0.00	118	117.5	-24	-23.3	6	N	0	MU		
25	08:00	6.31	0.00	110	108.9	-24	-23.9	6	N	0	MU		
26	06:00	0.00	0.00	110	109.2	-24	-23.8	6	N	0	MU		
27	08:44	0.00	0.00	111	109.7	-24	-23.3	6	N	0	BP		
28	09:00	0.00	0.00	110	109.4	-26	-23.5	6	N	0	ADR		
29	08:30	0.00	0.00	110	109.3	-26	-23.4	6	N	0	ADR		
30	08:00	0.00	0.00	110	110.8	-26	-23.1	6	N	0	ADR		
31	08:30	0.00	0.00	110	109.3	-25	-22.9	6	N	0	RB		

Northern (Bushton) #1 10/2022

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	10/10/2022	5.79	10/10/2022	N/A				
2	64.00	10/20/2022	5.11	10/20/2022	N/A				
3	65.00	10/24/2022	5.17	10/24/2022	N/A				
4	69.00	10/31/2022	5.15	10/31/2022	N/A				
5					N/A				

No monthly injectate samples required.

Northern (Bushton) #1 10/2022

Quarterly Injectate Samples

Quarter 3
Date Sample Collected 08/09/2022
Kansas Lab Certificate Number E-10146
Lab Name Pace Analytical-Salina

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

Constituent	Value	Units
Calcium	64.700	mg/l
Chloride	101.000	mg/l
Conductivity	48.400	Mmhos
Diethanolamine	109.000	mg/l
Iron	51.300	mg/l
Magnesium	14.500	mg/l
Sulfate	ND	mg/l
Total Alkalinity as CaCO3	401.000	mg/l
Total Dissolved Solids	1,000.000	mg/l
Total Hardness as CaCO3	221.000	mg/l