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

Submitted 02/22/2022 **Approved** 02/24/2022 **KOLAR Document ID** 1626180

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 9

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	10	0.04	134	130	-22.5	-20.7	0
Monthly Maximum	106	1.33	139	134	-16.0	-14.5	0
Monthly Minimum	0	0.00	125	120	-28.0	-25.6	0
Monthly Total	306						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
134.30	118.00	-12.70	-26.30

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	12:00	0.00	0.00	130	124.3	-23	-21.6	6	N	0	AR		
2	13:00	47.19	1.33	125	119.9	-28	-25.6	6	N	0	DJ		
3	07:30	25.98	0.00	131	126.8	-26	-23.7	6	N	0	LM		
4	08:10	8.74	0.00	134	130.0	-26	-23.5	6	N	0	LM		
5	08:30	0.00	0.00	133	129.4	-24	-21.8	6	N	0	LM		
6	08:00	0.00	0.00	130	125.7	-20	-18.7	6	N	0	LM		
7	09:00	0.00	0.00	127	125.3	-20	-18.9	6	N	0	MU		
8	08:00	0.00	0.00	125	123.4	-20	-19.6	6	N	0	MU		
9	09:00	74.40	0.00	135	130.8	-19	-18.5	6	N	0	MU		
10	14:10	9.29	0.00	135	129.7	-28	-25.5	6	N	0	DJ		
11	06:30	0.00	0.00	135	131.7	-26	-24.1	6	N	0	DJ		
12	12:00	0.00	0.00	133	131.7	-24	-22.0	6	N	0	AR		
13	11:45	0.00	0.00	136	132.7	-22	-20.6	6	N	0	LM		
14	09:45	0.00	0.00	137	132.7	-20	-19.2	7	N	0	RB		
15	11:45	0.00	0.00	135	131.1	-17	-14.9	7	N	0	RB		
16	09:45	0.00	0.00	135	131.1	-16	-15.0	7	N	0	RB		
17	11:00	0.00	0.00	135	131.1	-16	-14.5	7	N	0	RB		
18	13:00	106.24	0.00	135	130.0	-27	-23.7	7	N	0	MU		
19	11:00	0.00	0.00	133	130.0	-26	-22.0	7	N	0	MU		
20	13:00	0.00	0.00	133	129.7	-25	-22.0	7	N	0	MU		
21	06:00	16.76	0.00	132	126.8	-23	-22.0	6	N	0	MU		
22	07:30	0.00	0.00	134	128.0	-19	-18.0	6	N	0	LM		
23	08:30	0.00	0.00	136	128.0	-16	-15.9	6	N	0	LM		
24	07:10	11.86	0.00	135	131.0	-27	-24.4	6	N	0	LM		
25	09:10	0.00	0.00	137	133.0	-26	-22.8	6	N	0	RB		
26	11:00	0.00	0.00	135	131.5	-25	-22.0	6	N	0	RB		
27	08:30	0.00	0.00	134	131.0	-20	-19.0	6	N	0	RB		
28	11:30	5.64	0.00	137	132.6	-26	-23.3	6	N	0	RB		
29	09:15	0.00	0.00	137	132.8	-23	-22.0	6	N	0	DJ		
30	07:00	0.00	0.00	136	131.0	-21	-19.9	6	N	0	DJ		
31	09:30	0.00	0.00	139	133.7	-19	-18.0	6	N	0	DJ		

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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	57.00	01/03/2022	7.57	01/03/2022	N/A				
2	55.00	01/10/2022	7.21	01/10/2022	N/A				
3	55.00	01/18/2022	7.39	01/18/2022	N/A				
4	52.00	01/26/2022	7.06	01/26/2022	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 11/23/2021
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	59.300	mg/l
Chloride	83.100	mg/l
Conductivity	11.000	Mmhos
Diethanolamine	413.000	mg/l
Iron	13.900	mg/l
Magnesium	11.800	mg/l
Sulfate	5.400	mg/l
Total Alkalinity as CaCO3	661.000	mg/l
Total Dissolved Solids	607.000	mg/l
Total Hardness as CaCO3	197.000	mg/l