Facility Well Name Northern (Bushton) #1 **UIC Permit #** KS-01-159-003 **Month** March **Year** 2023

Submitted 04/21/2023 **Approved** 04/25/2023 **KOLAR Document ID** 1710718

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 15

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	66	0.07	123	123	-26.4	-24.2	0
Monthly Maximum	627	1.07	128	127	-19.0	-18.0	0
Monthly Minimum	0	0.00	120	117	-28.0	-26.0	0
Monthly Total	2,044						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
127.40	117.40	-18.00	-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	10:25	102.90	1.07	124	121.5	-28	-25.6	5	N	0	MW		
2	06:45	0.00	0.00	124	121.5	-28	-25.6	5	N	0	MW		
3	13:30	68.33	0.00	122	123.2	-27	-25.0	5	N	0	MLU		
4	09:30	52.98	1.07	120	117.4	-27	-25.7	5	N	0	MLU		
5	15:30	28.60	0.00	122	123.9	-28	-25.0	5	N	0	MLU		
6	07:35	0.00	0.00	125	123.6	-28	-25.0	5	N	0	DJ		
7	03:36	93.26	0.00	120	118.0	-28	-25.0	5	N	0	DJ		
8	08:11	0.00	0.00	122	122.4	-28	-25.0	5	N	0	DJ		
9	08:41	0.00	0.00	122	122.9	-27	-25.0	5	N	0	DJ		
10	06:10	0.00	0.00	124	122.5	-27	-25.0	5	N	0	RB		
11	07:10	0.00	0.00	124	122.5	-27	-25.0	5	N	0	RB		
12	06:58	82.69	0.00	124	123.0	-27	-25.0	5	N	0	RB		
13	09:20	0.00	0.00	121	121.0	-26	-25.0	5	N	0	MLU		
14	12:30	84.33	0.00	122	123.0	-28	-26.0	6	N	0	MLU		
15	06:30	218.45	0.00	121	123.0	-28	-25.0	5	N	0	MLU		
16	09:30	0.00	0.00	125	124.0	-22	-21.0	6	N	0	TDM		
17	08:00	0.00	0.00	124	121.4	-21	-20.9	6	N	0	LRM		
18	08:50	0.00	0.00	121	120.9	-20	-20.0	6	N	0	LRM		
19	09:00	0.00	0.00	121	121.8	-19	-19.1	6	N	0	LRM		
20	06:15	0.00	0.00	123	122.0	-19	-18.0	6	N	0	RB		
21	14:34	626.55	0.00	125	125.0	-28	-25.0	5	N	0	RB		
22	06:05	0.00	0.00	127	126.0	-28	-25.0	5	N	0	RB		
23	02:18	82.36	0.00	126	125.4	-28	-25.0	5	N	0	DJ		
24	10:10	0.00	0.00	125	124.4	-27	-25.0	5	N	0	DJ		
25	12:07	0.00	0.00	128	127.4	-26	-24.0	5	N	0	DJ		
26	11:46	91.40	0.00	123	122.1	-28	-25.0	5	N	0	DJ		
27	11:05	0.00	0.00	125	124.5	-28	-25.0	5	N	0	LRM		
28	08:30	85.00	0.00	121	121.5	-28	-26.0	5	N	0	LRM		
29	09:05	241.29	0.00	123	122.1	-28	-25.0	5	N	0	LRM		
30	14:00	101.05	0.00	124	123.0	-28	-25.3	5	N	0	LRM		
31	08:30	85.17	0.00	125	124.0	-27	-24.0	5	N	0	TM		

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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	59.00	03/07/2023	6.98	03/07/2023	N/A				
2	59.00	03/14/2023	6.89	03/14/2023	N/A				
3	61.00	03/22/2023	6.86	03/22/2023	N/A				
4	63.00	03/29/2023	7.60	03/29/2023	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 03/15/2023
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	34.800	mg/l
Chloride	82.900	mg/l
Conductivity	0.748	Mmhos
Diethanolamine	<50.000	mg/l
Iron	34.200	mg/l
Magnesium	11.400	mg/l
Sulfate	13.200	mg/l
Total Alkalinity as CaCO3	180.000	mg/l
Total Dissolved Solids	462.000	mg/l
Total Hardness as CaCO3	134.000	mg/l