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

Submitted 08/07/2023 **Approved** 08/30/2023 **KOLAR Document ID** 1724773

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 6

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	17	0.00	134	133	-28.0	-25.9	0
Monthly Maximum	281	0.00	135	134	-28.0	-25.0	0
Monthly Minimum	0	0.00	130	130	-29.0	-26.0	0
Monthly Total	541						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
134.40	125.40	-25.10	-25.90

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	06:01	0.00	0.00	132	131.4	-28	-25.5	4	N	0	RB		
2	06:05	0.00	0.00	132	131.1	-28	-25.5	4	N	0	RB		
3	08:15	0.00	0.00	133	131.9	-28	-25.4	5	N	0	AJR		
4	09:00	0.00	0.00	134	132.0	-28	-25.3	6	N	0	GA		
5	13:18	0.00	0.00	135	132.0	-28	-26.0	6	N	0	LM		
6	08:26	15.83	0.00	130	129.8	-28	-25.7	6	N	0	LM		
7	09:02	0.00	0.00	132	131.9	-28	-25.0	5	N	0	LM		
8	07:00	280.71	0.00	132	131.3	-28	-26.0	5	N	0	DR		
9	09:08	0.00	0.00	133	131.3	-28	-26.0	4	N	0	LM		
10	10:30	0.00	0.00	133	132.1	-28	-26.0	4	N	0	DR		
11	09:30	0.00	0.00	134	132.4	-28	-26.0	5	N	0	MW		
12	06:39	0.00	0.00	134	132.8	-28	-25.0	4	N	0	RB		
13	11:07	0.00	0.00	134	133.0	-28	-26.0	4	N	0	RB		
14	08:12	0.00	0.00	133	132.7	-28	-26.0	5	N	0	DJ		
15	09:53	77.07	0.00	134	132.5	-29	-26.0	5	N	0	DJ		
16	10:20	0.00	0.00	134	132.8	-28	-26.0	5	N	0	DJ		
17	09:30	0.00	0.00	134	132.9	-28	-26.0	5	N	0	LM		
18	08:34	10.29	0.00	135	133.0	-28	-26.0	5	N	0	LM		
19	14:05	0.00	0.00	135	132.9	-28	-26.0	5	N	0	LM		
20	08:05	0.00	0.00	135	133.1	-28	-26.0	4	N	0	LM		
21	10:00	0.00	0.00	135	133.0	-28	-26.0	4	N	0	MU		
22	11:00	0.00	0.00	135	133.0	-28	-26.0	4	N	0	MU		
23	09:00	0.00	0.00	135	133.0	-28	-26.0	4	N	0	MU		
24	11:09	82.93	0.00	133	132.3	-28	-26.0	4	N	0	DJ		
25	13:46	0.00	0.00	135	133.2	-28	-26.0	4	N	0	DJ		
26	09:26	0.00	0.00	134	132.9	-28	-26.0	4	N	0	DJ		
27	11:31	0.00	0.00	134	133.3	-28	-26.0	4	N	0	DJ		
28	06:05	0.00	0.00	134	133.1	-28	-26.0	4	N	0	RB		
29	08:30	0.00	0.00	134	134.0	-28	-26.0	4	N	0	RB		
30	07:30	74.19	0.00	135	134.0	-28	-26.0	4	N	0	RB		
31	08:30	0.00	0.00	135	134.0	-28	-26.0	4	N	0	MU		

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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	69.00	07/06/2023	6.85	07/06/2023	N/A				
2	71.00	07/10/2023	10.00	07/10/2023	N/A				
3	72.00	07/17/2023	9.85	07/17/2023	N/A				
4	71.00	07/24/2023	9.74	07/24/2023	N/A				
5	72.00	07/31/2023	9.07	07/31/2023	N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 05/22/2023
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	43.200	mg/l
Chloride	311.000	mg/l
Conductivity	1.350	Mmhos
Diethanolamine	914.000	mg/l
Iron	7.570	mg/l
Magnesium	10.000	mg/l
Sulfate	10.200	mg/l
Total Alkalinity as CaCO3	204.000	mg/l
Total Dissolved Solids	756.000	mg/l
Total Hardness as CaCO3	149.000	mg/l