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

Submitted 09/22/2023 **Approved** 09/22/2023 **KOLAR Document ID** 1730388

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	177	0.14	133	132	-27.9	-25.8	0
Monthly Maximum	1,228	1.10	138	135	-27.0	-25.0	0
Monthly Minimum	0	0.00	123	124	-28.0	-26.0	0
Monthly Total	5,502						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
135.10	132.20	-25.10	-26.80

Comments:

Fall-off test scheduled for Aug 9-10. Rescheduled for Aug 22-23.

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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	10:30	0.00	0.00	135	134.0	-28	-26.0	4	N	0	MU		
2	15:30	11.48	0.00	135	134.8	-28	-26.0	4	N	0	MU		
3	16:00	0.00	0.00	135	135.0	-28	-26.0	4	N	0	MU		
4	09:00	0.00	0.00	135	134.0	-28	-26.0	4	N	0	DR		
5	11:45	0.00	0.00	135	133.0	-28	-26.0	4	N	0	LM		
6	10:30	0.00	0.00	135	134.0	-28	-26.0	4	N	0	LM		
7	07:30	0.00	0.00	135	134.0	-28	-26.0	4	N	0	DR		
8	11:00	18.14	0.00	135	134.0	-28	-26.0	4	N	0	LM		
9	14:00	367.26	0.00	125	125.0	-28	-25.3	4	N	0	DR		
10	06:46	1,099.69	1.07	136	125.0	-27	-25.3	5	N	0	DJ		
11	15:45	106.21	0.00	134	133.0	-28	-25.3	5	N	0	DJ		
12	11:13	1,227.93	1.10	125	124.0	-28	-25.3	5	N	0	DJ		
13	09:45	272.86	0.00	132	131.0	-28	-25.3	5	N	0	DJ		
14	08:30	0.00	0.00	134	133.0	-28	-26.0	5	N	0	DJ		
15	14:00	0.00	0.00	134	133.0	-28	-26.0	5	N	0	DJ		
16	07:42	0.00	0.00	134	133.0	-28	-26.0	5	N	0	DJ		
17	08:30	171.19	1.10	134	133.0	-28	-26.0	5	N	0	DR		
18	10:20	170.79	0.00	133	132.0	-28	-26.0	5	N	0	LM		
19	09:35	0.00	0.00	134	133.0	-28	-26.0	4	N	0	LM		
20	10:52	0.00	0.00	135	133.0	-28	-26.0	5	N	0	LM		
21	12:57	11.69	0.00	138	133.0	-28	-26.0	4	N	0	LM		
22	08:33	0.00	0.00	134	133.0	-28	-26.0	4	N	0	LM		
23	08:05	928.57	1.07	123	125.0	-28	-26.0	3	N	0	LM		
24	08:38	370.50	0.00	133	133.0	-28	-26.0	4	N	0	DJ		
25	10:15	652.48	0.00	132	132.0	-28	-26.0	5	N	0	AJR		
26	12:15	0.00	0.00	134	133.0	-28	-26.0	5	N	0	AJR		
27	09:30	0.00	0.00	135	134.0	-28	-25.0	5	N	0	DJ		
28	14:00	11.95	0.00	135	134.0	-28	-26.0	5	N	0	DJ		
29	07:30	0.00	0.00	135	134.0	-28	-25.0	5	N	0	DJ		
30	08:40	81.17	0.00	134	133.0	-27	-25.0	5	N	0	DJ		
31	07:52	0.00	0.00	135	134.0	-28	-25.0	4	N	0	LM		

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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	73.00	08/07/2023	5.38	08/07/2023	N/A				
2	70.00	08/14/2023	6.44	08/14/2023	N/A				
3	73.00	08/21/2023	7.09	08/21/2023	N/A				
4	71.00	08/28/2023	6.40	08/28/2023	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 08/24/2023
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	84.700	mg/l
Chloride	141.000	mg/l
Conductivity	1.250	Mmhos
Diethanolamine	12,900.000	mg/l
Iron	17.200	mg/l
Magnesium	12.200	mg/l
Sulfate	18.000	mg/l
Total Alkalinity as CaCO3	349.000	mg/l
Total Dissolved Solids	1,320.000	mg/l
Total Hardness as CaCO3	262.000	mg/l