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

Submitted 03/24/2023 **Approved** 03/27/2023 **KOLAR Document ID** 1706331

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 27

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	115	0.15	119	118	-28.0	-25.4	0
Monthly Maximum	187	1.07	127	128	-27.0	-24.0	0
Monthly Minimum	0	0.00	111	110	-29.0	-26.0	0
Monthly Total	3,214						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
127.10	106.80	-24.70	-26.60

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	10:30	0.00	0.00	118	114.5	-28	-25.9	5	N	0	LRM		
2	10:30	91.62	0.00	120	117.4	-28	-25.8	5	N	0	LRM		
3	13:00	87.40	0.00	122	128.0	-28	-25.5	6	N	0	MLU		
4	09:00	86.12	0.00	120	118.0	-28	-25.0	6	N	0	MLU		
5	07:00	85.05	0.00	120	118.0	-29	-25.0	6	N	0	MLU		
6	06:17	86.29	1.07	121	121.0	-28	-25.0	5	N	0	DJ		
7	04:22	179.76	0.00	121	121.0	-28	-25.0	5	N	0	DJ		
8	08:12	85.76	0.00	119	114.0	-28	-25.0	5	N	0	DJ		
9	06:28	89.40	0.00	119	116.0	-28	-25.0	5	N	0	DJ		
10	06:21	85.79	0.00	117	115.0	-28	-26.0	5	N	0	RB		
11	06:10	85.74	0.00	119	117.0	-28	-26.0	5	N	0	RB		
12	06:05	85.24	0.00	121	119.0	-28	-26.0	5	N	0	RB		
13	10:00	170.43	0.00	121	121.0	-28	-25.0	5	N	0	MLU		
14	11:00	88.33	0.00	123	125.0	-28	-24.0	5	N	0	MLU		
15	14:00	169.40	0.00	118	113.0	-28	-25.0	5	N	0	MLU		
16	09:30	88.45	1.07	119	113.0	-28	-26.0	5	N	0	MLU		
17	13:31	85.02	0.00	120	119.0	-28	-25.7	5	N	0	LRM		
18	09:15	84.55	0.00	120	118.1	-28	-26.0	5	N	0	LRM		
19	09:30	169.31	0.00	118	116.0	-28	-25.7	5	N	0	AJR		
20	08:00	89.81	0.00	120	119.9	-28	-25.4	5	N	0	MW		
21	08:30	172.21	0.00	120	119.1	-28	-25.4	5	N	0	DS		
22	06:02	85.50	1.07	127	126.0	-27	-25.0	5	N	0	RB		
23	06:00	186.52	0.00	111	110.0	-27	-26.0	5	N	0	RB		
24	10:30	171.02	0.00	111	112.0	-28	-26.0	5	N	0	DJ		
25	02:22	134.48	0.00	116	119.0	-28	-25.0	5	N	0	DJ		
26	10:41	127.33	0.00	121	119.0	-28	-25.0	5	N	0	DJ		
27	08:30	172.10	0.00	116	114.8	-28	-25.3	5	N	0	LRM		
28	12:40	171.62	1.07	122	120.7	-28	-25.0	5	N	0	LRM		
29													
30													
31													

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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	02/06/2023	7.44	02/06/2023	N/A				
2	58.00	02/16/2023	7.10	02/16/2023	N/A				
3	59.00	02/22/2023	7.66	02/22/2023	N/A				
4	63.00	02/28/2023	7.77	02/28/2023	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 11/14/2022
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	36.600	mg/l
Chloride	4,470.000	mg/l
Conductivity	9.220	Mmhos
Diethanolamine	61.800	mg/l
Iron	79.300	mg/l
Magnesium	46.000	mg/l
Sulfate	4.800	mg/l
Total Alkalinity as CaCO3	434.000	mg/l
Total Dissolved Solids	5,200.000	mg/l