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

Submitted 03/27/2023 **Approved** 04/13/2023 **KOLAR Document ID** 1688353

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 21

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	75	0.04	118	116	-25.9	-21.6	0
Monthly Maximum	548	1.10	126	125	0.0	28.0	0
Monthly Minimum	0	0.00	110	108	-29.0	-27.0	0
Monthly Total	2,337						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
125.20	103.00	-21.00	-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	08:00	41.67	0.00	119	118.4	-27	-25.2	6	N	0	BP		
2	10:03	78.29	0.00	119	117.7	-28	-25.2	6	N	0	LRM		
3	08:00	86.74	0.00	115	114.8	-28	-25.2	6	N	0	LRM		
4	08:30	71.83	1.10	111	107.5	-28	-25.7	6	N	0	LRM		
5	09:00	25.98	0.00	114	113.9	-27	-25.4	6	N	0	AJR		
6	15:00	0.00	0.00	119	116.8	-27	-24.0	6	N	0	MLU		
7	13:20	0.00	0.00	119	117.2	-26	-24.0	6	N	0	MLU		
8	08:00	0.00	0.00	119	117.0	-27	-24.0	6	N	0	MLU		
9	15:30	0.00	0.00	126	124.9	-24	-22.8	6	N	0	DJ		
10	10:22	0.00	0.00	121	120.0	0	-22.3	6	N	0	DJ		
11	14:13	0.00	0.00	121	120.4	-22	-21.5	6	N	0	DJ		
12	10:33	0.00	0.00	119	117.8	-21	-21.5	6	N	0	DJ		
13	06:30	548.07	0.00	115	114.4	-28	28.0	6	N	0	RB		
14	08:15	97.81	0.00	116	115.0	-28	-27.0	6	N	0	RB		
15	11:34	0.00	0.00	121	120.0	-27	25.0	6	N	0	RB		
16	11:00	51.57	0.00	120	119.1	-28	-25.0	5	N	0	MLU		
17	15:00	117.86	0.00	120	118.3	-27	-26.0	5	N	0	MLU		
18	14:00	119.26	0.00	119	116.3	-28	-25.0	5	N	0	MLU		
19	12:30	0.00	0.00	119	118.4	-18	-27.0	5	N	0	MLU		
20	12:30	87.43	0.00	120	119.6	-28	-25.6	5	N	0	LRM		
21	11:21	86.57	0.00	119	118.0	-28	-25.5	6	N	0	LRM		
22	10:00	85.93	0.00	118	114.8	-28	-25.7	6	N	0	AJR		
23	14:30	8.95	0.00	117	115.6	-29	-25.9	5	N	0	MW		
24	06:45	87.10	0.00	116	115.0	-28	-25.6	5	N	0	MW		
25	06:16	86.62	0.00	115	114.0	-28	-26.0	5	N	0	RB		
26	06:01	0.00	0.00	117	116.0	-27	-25.0	5	N	0	RB		
27	06:54	86.38	0.00	117	116.6	-27	-25.0	5	N	0	DJ		
28	09:13	197.74	0.00	120	118.7	-28	-25.0	5	N	0	DJ		
29	15:11	85.14	0.00	117	112.6	-28	-25.0	5	N	0	DJ		
30	08:45	94.50	0.00	111	109.8	-28	-26.2	5	N	0	LRM		
31	08:02	191.21	0.00	110	108.5	-28	-26.3	5	N	0	LRM		

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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	56.00	01/03/2023	6.99	01/03/2023	N/A				
2	58.00	01/12/2023	7.10	01/12/2023	N/A				
3	54.00	01/17/2023	7.17	01/17/2023	N/A				
4	54.00	01/23/2023	6.97	01/23/2023	N/A				
5	54.00	02/01/2023	8.74	02/01/2023	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
Total Hardness as CaCO3	1,100.000	mg/l