Facility Well Name Northern (Bushton) #1 **UIC Permit #** KS-01-159-003 **Month** February **Year** 2022

Submitted 03/25/2022 **Approved** 03/31/2022 **KOLAR Document ID** 1636214

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 11

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	29	0.00	131	127	-24.1	-22.4	0
Monthly Maximum	186	0.00	148	138	-14.0	-14.9	0
Monthly Minimum	0	0.00	120	116	-29.0	-25.7	0
Monthly Total	821						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
137.80	113.70	-13.40	-22.90

Comments:

Northern (Bushton) #1 02/2022

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	08:30	0.00	0.00	148	133.8	-17	-15.7	7	N	0	AR		
2	08:00	9.00	0.00	135	128.7	-25	-23.3	7	N	0	LM		
3	09:00	0.00	0.00	130	124.8	-22	-20.7	6	N	0	LM		
4	08:00	0.00	0.00	127	124.6	-23	-20.5	6	N	0	MU		
5	10:00	0.00	0.00	137	133.4	-14	-14.9	6	N	0	MU		
6	11:00	0.00	0.00	135	131.1	-15	-15.7	6	N	0	MU		
7	08:45	74.29	0.00	137	131.0	-25	-23.6	6	N	0	DJ		
8	13:30	15.43	0.00	141	137.6	-26	-23.8	6	N	0	DJ		
9	06:30	73.50	0.00	130	123.9	-27	-24.5	6	N	0	DJ		
10	08:00	0.00	0.00	130	123.7	-25	-23.7	6	N	0	DJ		
11	06:30	73.48	0.00	130	124.0	-27	-24.5	7	N	0	RB		
12	09:30	0.00	0.00	129	123.4	-26	-23.5	7	N	0	RB		
13	10:00	73.62	0.00	128	122.4	-26	-23.5	7	N	0	RB		
14	06:45	0.00	0.00	128	121.7	-24	-23.1	7	N	0	DJ		
15	07:45	89.14	0.00	123	117.6	-28	-24.9	4	N	0	MW		
16	08:00	0.00	0.00	130	125.7	-27	-24.3	5	N	0	MW		
17	09:00	0.00	0.00	127	125.1	-27	-24.3	5	N	0	MU		
18	10:30	75.93	0.00	126	128.0	-26	-24.0	6	N	0	LM		
19	10:30	0.00	0.00	128	128.7	-24	-23.5	6	N	0	LM		
20	07:45	0.00	0.00	132	128.4	-22	-20.9	7	N	0	LM		
21	10:45	74.12	0.00	132	128.2	-22	-21.0	6	N	0	RB		
22	11:00	0.00	0.00	132	128.0	-22	-21.0	6	N	0	RB		
23	10:30	0.00	0.00	127	128.0	-27	-24.0	6	N	0	RB		
24	09:30	76.36	0.00	128	128.0	-27	-24.5	6	N	0	RB		
25	16:00	186.02	0.00	120	115.6	-29	-25.7	4	N	0	BP		
26	10:30	0.00	0.00	132	127.9	-26	-24.1	6	N	0	LM		
27	11:30	0.00	0.00	135	129.1	-23	-22.3	6	N	0	DJ		
28	07:30	0.00	0.00	135	129.8	-22	-21.0	6	N	0	AR		
29													
30													
31													

Northern (Bushton) #1 02/2022

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	53.00	02/01/2022	7.12	02/01/2022	N/A				
2	53.00	02/07/2022	7.09	02/07/2022	N/A				
3	55.00	02/14/2022	7.12	02/14/2022	N/A				
4	53.00	02/25/2022	7.47	02/25/2022	N/A				
5	57.00	02/28/2022	7.21	02/28/2022	N/A				

No monthly injectate samples required.

Northern (Bushton) #1 02/2022

Quarterly Injectate Samples

Quarter 1
Date Sample Collected 02/14/2022
Kansas Lab Certificate Number 1011610146
Lab Name

These samples shall be representative of injection activity and shall therefore be collected on days of injection.

Constituent	Value	Units
Calcium	99.200	mg/l
Chloride	300.000	mg/l
Conductivity	15.300	Mmhos
Diethanolamine	<50.000	mg/l
Iron	19.000	mg/l
Magnesium	13.700	mg/l
Sulfate	25.700	mg/l
Total Alkalinity as CaCO3	288.000	mg/l
Total Dissolved Solids	845.000	mg/l
Total Hardness as CaCO3	304.000	mg/l