Facility Well Name Northern (Bushton) #1 **UIC Permit #** KS-01-159-003 **Month** July **Year** 2021

Submitted 08/27/2021 **Approved** 08/31/2021 **KOLAR Document ID** 1588498

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 4

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	2	0.00	125	122	-28.3	-25.0	0
Monthly Maximum	25	0.00	126	124	-25.0	-22.0	0
Monthly Minimum	0	0.00	124	121	-29.0	-26.0	0
Monthly Total	66						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
124.10	120.80	-22.00	-26.00

Comments:

No injection occurred for the week of July 25-31. No ph test was taken.

Northern (Bushton) #1 07/2021

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	10:00	0.00	0.00	125	124.1	-29	-22.0	7	N	0	MU		
2	08:00	0.00	0.00	126	122.0	-28	-25.0	7	N	0	RB		
3	10:00	0.00	0.00	126	122.0	-25	-25.0	7	N	0	RB		
4	08:45	0.00	0.00	126	122.0	-29	-26.0	7	N	0	RB		
5	08:00	0.00	0.00	125	122.0	-29	-26.0	7	N	0	MU		
6	06:00	0.00	0.00	126	122.0	-28	-26.0	7	N	0	MU		
7	06:00	0.00	0.00	126	122.0	-29	-25.0	7	N	0	MU		
8	06:00	18.69	0.00	125	121.3	-28	-24.9	7	N	0	MU		
9	08:30	0.00	0.00	126	121.6	-29	-24.8	7	N	0	DJ		
10	07:11	0.00	0.00	125	121.7	-29	-24.8	6	N	0	LM		
11	07:07	0.00	0.00	125	121.7	-28	-24.9	7	N	0	LM		
12	08:00	5.29	0.00	125	121.6	-28	-25.0	7	N	0	RE		
13	11:00	0.00	0.00	125	120.8	-28	-24.9	7	N	0	RB		
14	09:00	0.00	0.00	125	121.4	-28	-24.9	7	N	0	RB		
15	08:00	0.00	0.00	125	121.9	-28	-24.8	7	N	0	MW		
16	07:30	0.00	0.00	125	121.7	-28	-24.9	7	N	0	MW		
17	07:30	16.45	0.00	125	121.6	-28	-24.9	7	N	0	MW		
18	07:30	0.00	0.00	125	121.9	-28	-25.0	7	N	0	MW		
19	08:15	0.00	0.00	126	121.6	-29	-25.1	7	N	0	DJ		
20	07:48	0.00	0.00	125	121.7	-29	-25.1	6	N	0	LM		
21	07:46	25.45	0.00	125	121.5	-29	-25.1	7	N	0	LM		
22	08:00	0.00	0.00	125	121.6	-29	-25.0	7	N	0	LM		
23	06:00	0.00	0.00	124	121.5	-29	-25.1	7	N	0	MU		
24	07:00	0.00	0.00	125	121.6	-29	-25.0	7	N	0	MU		
25	07:00	0.00	0.00	125	121.5	-28	-25.0	7	N	0	MU		
26	08:00	0.00	0.00	125	122.0	-29	-24.9	7	N	0	MW		
27	13:00	0.00	0.00	125	122.6	-28	-24.9	7	N	0	MW		
28	06:30	0.00	0.00	125	122.6	-28	-25.0	7	N	0	MW		
29	09:00	0.00	0.00	124	122.3	-28	-25.0	7	N	0	MW		
30	08:00	0.00	0.00	125	122.1	-28	-25.0	7	N	0	MW		
31	09:00	0.00	0.00	125	122.2	-28	-25.0	7	N	0	RB		

Northern (Bushton) #1 07/2021

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	07/06/2021	5.85	07/06/2021	N/A				
2	70.00	07/12/2021	5.88	07/12/2021	N/A				
3	67.00	07/20/2021	6.22	07/20/2021	N/A				
4					N/A				
5					N/A				

No monthly injectate samples required.

Northern (Bushton) #1 07/2021

Quarterly Injectate Samples

Quarter 2
Date Sample Collected 05/24/2021
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	233.000	mg/l
Chloride	1,160.000	mg/l
Conductivity	43.700	Mmhos
Diethanolamine	<50.000	mg/l
Iron	14.000	mg/l
Magnesium	24.200	mg/l
Sulfate	1.500	mg/l
Total Alkalinity as CaCO3	416.000	mg/l
Total Dissolved Solids	2,830.000	mg/l
Total Hardness as CaCO3	428.000	mg/l