Facility Well Name Northern (Bushton) #1 **UIC Permit #** KS-01-159-003 **Month** October **Year** 2020

Submitted 11/24/2020 **Approved** 11/30/2020 **KOLAR Document ID** 1537227

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 24

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	96	0.18	124	120	-27.1	-25.0	0
Monthly Maximum	1,025	1.90	126	123	-27.0	-24.5	0
Monthly Minimum	0	0.00	120	117	-28.0	-25.4	0
Monthly Total	2,986						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
125.60	112.60	-24.00	-25.40

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	05:30	0.00	0.00	125	120.6	-27	-25.2	12	N	0	MU		
2	09:15	0.00	0.00	122	119.0	-28	-25.3	12	N	0	LM		
3	08:30	0.00	0.00	125	120.9	-28	-25.0	12	N	0	LM		
4	08:15	0.00	0.00	125	117.0	-27	-24.5	12	N	0	DJ		
5	08:15	33.79	1.90	122	117.0	-27	-24.5	12	N	0	DJ		
6	11:00	1,025.17	0.00	125	121.0	-27	-25.0	12	N	0	TM		
7	13:00	99.64	0.00	125	123.0	-27	-24.8	12	N	0	RB		
8	08:00	97.60	0.00	125	122.5	-27	-25.0	12	N	0	RB		
9	06:15	96.76	0.00	125	122.0	-27	-24.8	12	N	0	MW		
10	06:30	96.50	0.00	125	122.0	-27	-24.8	12	N	0	MW		
11	06:45	96.19	0.00	126	122.8	-27	-24.7	12	N	0	MW		
12	08:13	104.31	0.00	122	119.0	-27	-25.0	12	N	0	LM		
13	08:30	0.00	0.00	123	123.3	-27	-25.0	12	N	0	LM		
14	08:00	90.19	0.00	125	121.0	-27	-24.7	12	N	0	LM		
15	08:00	87.48	0.00	125	120.7	-27	-24.8	12	N	0	LM		
16	07:00	87.52	0.00	123	119.1	-27	-25.4	12	N	0	MU		
17	07:00	88.69	0.00	124	119.5	-27	-24.9	12	N	0	MU		
18	07:00	87.10	0.00	126	118.1	-27	-25.3	12	N	0	MU		
19	08:00	0.00	0.00	122	118.2	-27	-25.2	12	N	0	MW		
20	06:00	101.19	0.00	124	119.7	-27	-25.0	12	N	0	MW		
21	06:00	86.81	0.00	124	120.2	-27	-25.1	12	N	0	MW		
22	06:00	87.24	0.00	125	121.9	-27	-24.7	12	N	0	MW		
23	06:15	87.19	0.00	125	119.9	-27	-25.2	12	N	0	MW		
24	09:45	87.48	0.00	125	120.0	-27	-24.8	12	N	0	RB		
25	06:30	48.40	1.83	120	117.0	-27	-24.7	12	N	0	MW		
26	11:00	85.05	1.83	120	116.6	-27	-24.9	12	N	0	MU		
27	06:00	40.69	0.00	125	120.6	-27	-25.3	12	N	0	MU		
28	11:00	97.52	0.00	125	121.7	-27	-25.0	12	N	0	MU		
29	06:00	86.88	0.00	124	119.8	-27	-25.0	12	N	0	MU		
30	08:00	86.81	0.00	123	119.0	-28	-25.2	12	N	0	LM		
31	08:30	0.00	0.00	125	122.4	-27	-24.9	12	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	65.00	10/05/2020	8.06	10/05/2020	N/A				
2	68.00	10/12/2020	7.77	10/12/2020	N/A				
3	67.00	10/19/2020	8.44	10/19/2020	N/A				
4	64.00	10/27/2020	8.46	10/27/2020	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 08/25/2020
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	703.000	mg/l
Chloride	516.000	mg/l
Conductivity	248.000	Mmhos
Diethanolamine	<100.000	mg/l
Iron	9.280	mg/l
Magnesium	10.200	mg/l
Sulfate	36.800	mg/l
Total Alkalinity as CaCO3	529.000	mg/l
Total Dissolved Solids	1,520.000	mg/l
Total Hardness as CaCO3	217.000	mg/l