Facility Well Name Northern (Cunningham) #3 **UIC Permit #** KS-05-151-003 **Month** April **Year** 2022

Submitted 05/05/2022 **Approved** 05/31/2022 **KOLAR Document ID** 1642414

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

Barrels per Day Maximum: 4,000

			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	522	0.51	95	94	-22.6	-23.0	0
Monthly Maximum	600	0.67	100	99	-21.0	-22.0	0
Monthly Minimum	198	0.17	90	87	-25.0	-24.0	0
Monthly Total	15,658						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
103.26	86.43	-3.45	-29.35

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	12:28	364.52	0.64	92	91.8	-23	-23.0	16		0	JM		
2	00:14	198.24	0.67	93	91.8	-23	-24.0	16		0	JM		
3	09:45	500.02	0.57	90	87.1	-23	-24.0	14		0	CF		
4	09:34	599.79	0.55	92	91.8	-25	-24.0	15		0	DH		
5	09:21	567.60	0.52	95	93.2	-22	-23.0	16		0	DH		
6	09:02	576.33	0.55	95	93.4	-24	-23.0	16		0	DH		
7	09:45	537.17	0.52	95	93.2	-24	-23.0	16		0	DH		
8	09:42	572.31	0.55	94	91.3	-24	-23.0	16		0	GN		
9	10:40	543.17	0.52	95	94.0	-24	-23.0	16		0	GN		
10	10:21	554.74	0.52	94	94.0	-24	-23.0	16		0	GN		
11	08:47	551.98	0.52	94	94.0	-22	-23.0	16		0	BD		
12	08:55	466.50	0.57	94	94.1	-23	-22.0	16		0	BD		
13	09:46	548.26	0.55	91	90.6	-22	-23.0	15		0	BD		
14	05:25	513.07	0.55	94	91.8	-21	-24.0	16		0	BD		
15	08:05	536.24	0.55	95	93.4	-22	-23.0	16		0	DO		
16	08:00	539.86	0.52	94	92.5	-21	-23.0	16		0	AB		
17	08:10	537.36	0.52	95	93.7	-22	-23.0	16		0	DO		
18	09:00	522.88	0.52	95	93.6	-23	-24.0	17		0	DV		
19	09:00	520.45	0.17	95	93.1	-21	-22.0	16		0	DV		
20	08:30	535.00	0.17	95	94.5	-22	-22.0	16		0	HS		
21	09:20	531.67	0.52	97	95.6	-22	-23.0	17		0	DV		
22	10:00	536.95	0.50	99	97.8	-22	-22.0	17		0	HS		
23	08:25	532.81	0.50	100	97.1	-22	-23.0	17		0	DV		
24	08:15	516.31	0.50	96	94.7	-23	-23.0	17		0	HS		
25	08:55	506.93	0.48	95	93.1	-22	-23.0	17		0	WV		
26	08:35	554.10	0.50	95	93.4	-23	-24.0	17		0	WV		
27	08:51	535.79	0.48	96	95.4	-22	-23.0	17		0	BD		
28	09:55	564.31	0.48	98	97.9	-23	-23.0	17		0	WV		
29	09:10	529.76	0.48	99	98.8	-23	-23.0	18		0	WV		
30	08:25	564.26	0.48	98	97.2	-22	-22.0	17		0	WV		
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Weekly Injectate Samples

Kansas Lab Certificate Number E-10146

Week	**Temperature**		**pH**		**Chloride**				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	63.00	04/04/2022	6.50	04/04/2022	N/A				
2	85.40	04/11/2022	6.70	04/11/2022	N/A				
3	81.20	04/18/2022	6.30	04/18/2022	N/A				
4	87.00	04/25/2022	6.80	04/25/2022	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 04/06/2022
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	2,400.000	mg/l
Chloride	29,600.000	mg/l
Conductivity	70.800	Mmhos
Magnesium	657.000	mg/l
Sodium	18,000.000	mg/l
Sulfate	2,360.000	mg/l
Total Alkalinity as CaCO3	285.000	mg/l
Total Dissolved Solids	57,400.000	mg/l
Total Suspended Solids	302.000	mg/l