Facility Well Name Northern (Cunningham) #2 **UIC Permit #** KS-05-151-002 **Month** May **Year** 2022

Submitted 06/02/2022 **Approved** 06/03/2022 **KOLAR Document ID** 1646325

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 29

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	838	1.19	105	104	-19.2	-19.0	0
Monthly Maximum	999	1.48	110	109	-9.0	-8.9	0
Monthly Minimum	0	0.00	99	100	-24.0	-24.5	0
Monthly Total	25,964						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
112.81	98.86	-6.74	-28.69

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	09:45	967.50	1.12	105	103.5	-11	-10.6	17		0	WV		
2	09:00	976.95	1.31	104	102.5	-23	-23.8	17		0	BD		
3	08:40	977.31	1.07	106	103.4	-24	-23.9	17		0	CWA		
4	08:46	972.62	1.10	104	103.2	-24	-23.9	17		0	BD		
5	09:30	981.10	1.02	105	102.3	-10	-9.5	17		0	CWA		
6	08:00	984.00	1.43	105	102.5	-23	-23.7	17		0	CWA		
7	07:25	996.95	1.40	105	103.5	-21	-21.4	18		0	DV		
8	07:45	998.60	1.00	105	104.6	-10	-8.9	18		0	DV		
9	07:15	286.95	0.98	105	103.5	-9	-8.9	18		0	AB		
10	07:50	0.00	0.00	100	100.2	-24	-24.5	16		0	KS		
11	10:30	0.00	0.00	99	100.4	-23	-24.5	16		0	KS		
12	07:50	324.50	1.31	102	100.6	-19	-18.1	16		0	JM		
13	09:35	964.38	1.48	109	107.2	-23	-23.3	14		0	JM		
14	07:10	962.50	1.31	100	109.3	-17	-16.5	16		0	KS		
15	09:00	965.95	1.45	110	109.3	-23	-23.3	17		0	JM		
16	09:37	966.31	1.45	109	108.1	-16	-15.7	17		0	GN		
17	09:41	894.19	1.24	110	107.6	-15	-14.6	18		0	GN		
18	07:46	920.07	1.26	105	102.6	-16	-15.9	16		0	GN		
19	08:33	942.52	1.43	105	105.0	-23	-22.7	18		0	GKB		
20	08:45	949.98	1.33	104	102.8	-23	-23.8	18		0	BD		
21	08:52	952.10	1.43	105	102.0	-24	-23.0	18		0	GN		
22	07:09	947.26	1.17	105	102.0	-14	-13.4	18		0	DH		
23	10:14	951.81	1.17	104	102.5	-14	-13.1	19		0	BD		
24	08:40	912.29	1.17	105	103.1	-14	-13.0	18		0	BD		
25	08:05	973.86	1.12	104	102.6	-24	-24.1	18		0	WV		
26	08:30	936.62	1.40	104	102.3	-23	-22.8	19		0	WV		
27	07:40	954.90	1.12	105	103.5	-13	-11.5	19		0	WV		
28	10:09	955.93	1.38	105	103.6	-22	-22.2	18		0	GKB		
29	10:50	675.29	1.40	105	103.2	-22	-22.2	19		0	GKB		
30	08:45	739.76	1.36	100	99.8	-23	-23.0	15		0	HS		
31	08:50	931.45	1.38	108	105.8	-24	-24.2	17		0	DV		

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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	81.00	05/02/2022	6.80	05/02/2022	N/A				
2	86.10	05/09/2022	6.70	05/09/2022	N/A				
3	88.10	05/16/2022	6.70	05/16/2022	N/A				
4	87.30	05/23/2022	6.82	05/23/2022	N/A				
5	80.00	05/30/2022	6.68	05/30/2022	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	3,010.000	mg/l
Chloride	29,200.000	mg/l
Conductivity	70.600	Mmhos
Magnesium	557.000	mg/l
Sodium	22,300.000	mg/l
Sulfate	2,360.000	mg/l
Total Alkalinity as CaCO3	301.000	mg/l
Total Dissolved Solids	51,200.000	mg/l
Total Suspended Solids	104.000	mg/l