Facility Well Name Northern (Cunningham) WIW #3 **UIC Permit #** KS-05-151-003 **Month** June **Year** 2023

Submitted 07/05/2023 **Approved** 07/27/2023 **KOLAR Document ID** 1720734

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 5

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	6	0.06	103	103	-24.2	-23.5	0
Monthly Maximum	74	0.74	131	130	-22.0	-21.0	0
Monthly Minimum	0	0.00	100	99	-27.0	-25.0	0
Monthly Total	191						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
108.28	93.96	-13.23	-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	08:50	4.67	0.31	100	99.4	-24	-24.0	14		0	AB		
2	13:50	0.00	0.00	100	99.7	-23	-24.0	15		0	AB		
3	08:30	0.00	0.00	100	98.5	-23	-24.0	15		0	DV		
4	08:00	0.00	0.00	100	99.2	-23	-24.0	15		0	DV		
5	09:16	60.31	0.55	100	100.2	-23	-22.0	15		0	JJ		
6	14:52	0.00	0.00	131	129.7	-25	-25.0	14		0	JJ		
7	09:34	0.00	0.00	101	100.7	-23	-23.0	15		0	JJ		
8	14:00	0.00	0.00	104	104.2	-24	-21.0	15		0	JJ		
9	09:30	0.00	0.00	101	101.8	-22	-21.0	15		0	JJ		
10	09:11	0.00	0.00	101	101.1	-23	-24.0	15		0	JJ		
11	09:57	0.00	0.00	102	101.6	-24	-24.0	15		0	JJ		
12	10:50	23.43	0.00	103	101.4	-24	-24.0	15		0	RP		
13	09:30	0.00	0.00	101	101.3	-23	-22.0	15		0	RP		
14	02:12	0.00	0.00	102	102.6	-26	-24.0	16		0	RP		
15	11:30	0.00	0.00	103	101.9	-24	-22.0	15		0	RP		
16	11:40	0.00	0.00	104	102.7	-25	-23.0	16		0	RP		
17	09:31	0.00	0.00	102	102.0	-24	-23.0	16		0	GKB		
18	13:21	0.00	0.00	103	103.2	-25	-23.0	16		0	GKB		
19	09:03	74.07	0.74	102	103.0	-25	-23.0	16		0	DMH		
20	09:10	0.00	0.00	100	101.7	-25	-24.0	15		0	DMH		
21	09:50	0.00	0.00	103	102.4	-25	-24.0	16		0	DMH		
22	09:40	0.00	0.00	102	103.0	-25	-25.0	16		0	DMH		
23	09:20	0.00	0.00	104	103.2	-25	-24.0	16		0	DMH		
24	08:25	0.00	0.00	102	103.6	-24	-24.0	16		0	DMH		
25	10:20	0.00	0.00	103	103.8	-24	-24.0	16		0	JWM		
26	09:30	28.45	0.33	101	100.4	-25	-25.0	15		0	HHS		
27	11:14	0.00	0.00	104	103.7	-24	-23.0	16		0	GN		
28	09:48	0.00	0.00	105	104.0	-24	-25.0	16		0	HHS		
29	08:55	0.00	0.00	105	104.0	-24	-24.0	16		0	HHS		
30	13:35	0.00	0.00	105	104.5	-27	-24.0	16		0	GN		
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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	72.10	06/05/2023	6.85	06/05/2023	N/A				
2	72.00	06/12/2023	7.60	06/12/2023	N/A				
3	75.80	06/19/2023	6.26	06/19/2023	N/A				
4	72.30	06/26/2023	6.78	06/26/2023	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 04/06/2023
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	2,230.000	mg/l
Chloride	99,600.000	mg/l
Conductivity	78.200	Mmhos
Magnesium	563.000	mg/l
Sodium	15,700.000	mg/l
Sulfate	2,590.000	mg/l
Total Alkalinity as CaCO3	307.000	mg/l
Total Dissolved Solids	55,000.000	mg/l
Total Suspended Solids	28.000	mg/l