Facility Well Name Northern (Cunningham) WIW #3 **UIC Permit #** KS-05-151-003 **Month** January **Year** 2024

Submitted 02/02/2024 **Approved** 03/04/2024 **KOLAR Document ID** 1750513

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 6

Barrels per Day Maximum: 4,000

	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Annulus Pressure psig min 60 Gauge psig	Annulus Pressure Cont. Record psig	Injection Pressure Gauge psig	Injection Pressure Cont. Record psig	Amount Added to Seal Pot
Monthly Average	2	0.07	106	107	-21.2	-23.6	0
Monthly Maximum	33	0.50	107	126	-19.0	-22.0	0
Monthly Minimum	0	0.00	101	101	-24.0	-25.0	0
Monthly Total	74						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
143.71	93.84	-18.16	-29.35

Comments:

Week 3 - wells did not run due to cold weather no PH taken.

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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	13:09	14.83	0.31	106	106.0	-21	-24.0	17		0	BD		
2	08:34	2.52	0.33	106	104.7	-21	-24.0	17		0	BD		
3	11:50	0.00	0.00	106	105.7	-22	-23.0	17		0	BD		
4	09:40	0.00	0.00	107	106.2	-21	-24.0	17		0	BD		
5	10:38	0.00	0.00	106	106.5	-22	-24.0	17		0	BD		
6	07:30	0.00	0.00	106	106.4	-21	-23.0	17		0	BD		
7	07:42	0.00	0.00	106	106.2	-21	-23.0	17		0	BD		
8	09:32	33.00	0.33	101	101.0	-22	-24.0	15		0	DO		
9	10:25	0.00	0.00	105	118.1	-23	-24.0	16		0	DO		
10	08:35	14.90	0.50	105	126.2	-21	-23.0	16		0	DO		
11	09:30	0.00	0.00	105	105.1	-20	-22.0	17		0	DO		
12	08:45	0.00	0.00	106	105.9	-20	-23.0	16		0	DO		
13	07:45	0.00	0.00	105	105.3	-19	-23.0	17		0	DO		
14	09:30	0.00	0.00	105	107.1	-22	-24.0	17		0	HS		
15	09:00	0.00	0.00	105	108.7	-20	-23.0	17		0	AB		
16	08:55	0.00	0.00	103	102.5	-20	-24.0	17		0	AB		
17	09:00	0.00	0.00	105	103.7	-20	-23.0	17		0	AB		
18	09:40	0.00	0.00	107	106.0	-20	-23.0	17		0	DV		
19	10:10	0.00	0.00	107	104.7	-20	-24.0	17		0	DV		
20	11:45	0.00	0.00	107	109.8	-20	-23.0	17		0	DV		
21	10:00	0.00	0.00	106	107.8	-20	-23.0	17		0	AB		
22	10:26	7.64	0.36	106	106.1	-20	-23.0	17		0	JCJ		
23	09:28	0.00	0.00	105	105.6	-23	-24.0	17		0	JCJ		
24	14:23	0.00	0.00	106	105.9	-24	-24.0	17		0	CWA		
25	10:12	0.00	0.00	105	106.1	-22	-24.0	17		0	JCJ		
26	11:08	0.00	0.00	107	106.2	-22	-24.0	16		0	JCJ		
27	09:11	0.00	0.00	107	106.1	-22	-25.0	17		0	JCJ		
28	11:05	0.00	0.00	107	106.0	-23	-24.0	17		0	JCJ		
29	10:11	1.21	0.36	106	106.0	-22	-24.0	17		0	GKB		
30	09:10	0.00	0.00	105	106.4	-21	-24.0	17		0	KS		
31	09:56	0.00	0.00	106	106.3	-22	-24.0	17		0	GKB		

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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	55.00	01/01/2024	7.00	01/01/2024	N/A				
2	46.20	01/08/2024	6.47	01/08/2024	N/A				
3		01/15/2024		01/15/2024	N/A				
4	43.00	01/22/2024	6.70	01/22/2024	N/A				
5	56.00	01/29/2024	7.44	01/29/2024	N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 01/02/2024
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	2,100.000	mg/l
Chloride	31,400.000	mg/l
Conductivity	79.300	Mmhos
Magnesium	524.000	mg/l
Sodium	11,700.000	mg/l
Sulfate	1,570.000	mg/l
Total Alkalinity as CaCO3	305.000	mg/l
Total Dissolved Solids	60,900.000	mg/l
Total Suspended Solids	7.100	mg/l