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

Submitted 03/15/2024 **Approved** 03/28/2024 **KOLAR Document ID** 1766020

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 4

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	2	0.05	107	107	-22.2	-23.7	0
Monthly Maximum	34	0.57	110	114	-21.0	-23.0	0
Monthly Minimum	0	0.00	106	99	-23.0	-24.0	0
Monthly Total	54						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
120.22	94.72	-15.08	-29.35

Comments:

Northern (Cunningham) WIW #3 02/2024

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	09:50	0.00	0.00	107	106.6	-22	-23.0	18		0	JCJ		
2	11:42	0.00	0.00	107	106.8	-22	-24.0	17		0	GKB		
3	12:37	0.00	0.00	107	107.1	-23	-24.0	18		0	GKB		
4	14:54	0.00	0.00	107	106.8	-22	-24.0	18		0	GKB		
5	12:25	1.14	0.10	107	106.5	-22	-24.0	17		0	GN		
6	13:42	0.00	0.00	108	106.6	-23	-23.0	17		0	GN		
7	09:24	0.00	0.00	108	106.5	-22	-23.0	17		0	GN		
8	09:00	0.00	0.00	107	106.8	-22	-23.0	17		0	KS		
9	10:28	0.00	0.00	108	106.7	-22	-23.0	17		0	GN		
10	13:32	0.00	0.00	107	107.0	-21	-23.0	17		0	GKB		
11	07:11	0.00	0.00	106	106.6	-21	-24.0	17		0	GKB		
12	10:21	15.62	0.57	106	106.4	-22	-23.0	17		0	JWM		
13	08:27	0.00	0.00	106	105.4	-23	-24.0	17		0	JWM		
14	09:35	0.00	0.00	106	106.3	-22	-24.0	17		0	HS		
15	09:26	0.00	0.00	108	106.8	-22	-24.0	17		0	JWM		
16	09:12	0.00	0.00	108	106.9	-22	-24.0	17		0	HS		
17	13:12	0.00	0.00	108	106.4	-21	-24.0	17		0	GKB		
18	09:52	0.00	0.00	106	106.3	-22	-24.0	17		0	GKB		
19	10:08	2.83	0.57	107	106.5	-23	-24.0	17		0	BD		
20	09:13	0.00	0.00	107	106.5	-23	-24.0	17		0	BD		
21	10:00	0.00	0.00	108	106.7	-23	-24.0	17		0	BD		
22	10:45	0.00	0.00	108	107.0	-22	-23.0	17		0	BD		
23	10:02	0.00	0.00	108	106.1	-23	-24.0	17		0	BD		
24	06:20	0.00	0.00	108	106.8	-22	-24.0	17		0	BD		
25	07:40	0.00	0.00	109	107.0	-22	-24.0	17		0	BD		
26	10:23	34.29	0.12	110	98.6	-23	-23.0	14		0	JCJ		
27	11:00	0.00	0.00	106	106.5	-23	-23.0	17		0	DV		
28	10:00	0.00	0.00	108	113.8	-21	-24.0	17		0	AB		
29	09:15	0.00	0.00	107	106.2	-22	-24.0	17		0	DV		
30													
31													

Northern (Cunningham) WIW #3 02/2024

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	50.20	02/05/2024	7.00	02/05/2024	N/A				
2	53.20	02/12/2024	6.90	02/12/2024	N/A				
3	56.20	02/19/2024	6.78	02/19/2024	N/A				
4	55.50	02/26/2024	7.00	02/26/2024	N/A				
5					N/A				

No monthly injectate samples required.

Northern (Cunningham) WIW #3 02/2024

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