Facility Well Name Northern (Cunningham) WIW #2 **UIC Permit #** KS-05-151-002 **Month** November **Year** 2023

Submitted 12/01/2023 **Approved** 12/28/2023 **KOLAR Document ID** 1739486

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	37	0.12	129	127	-25.1	-25.0	0
Monthly Maximum	502	1.31	131	130	-24.0	-24.0	0
Monthly Minimum	0	0.00	115	115	-26.0	-26.0	0
Monthly Total	1,111						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
132.40	111.30	-20.19	-29.36

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	09:20	0.00	0.00	128	126.3	-26	-26.0	13		0	HS		
2	09:25	0.00	0.00	129	127.0	-25	-25.0	13		0	HS		
3	10:50	0.00	0.00	130	128.6	-25	-25.0	13		0	HS		
4	09:05	0.00	0.00	130	128.6	-25	-25.0	13		0	HS		
5	09:56	0.00	0.00	129	129.3	-25	-25.0	13		0	GN		
6	10:53	224.60	1.31	115	114.7	-24	-24.0	8		0	GB		
7	08:55	0.00	0.00	129	127.5	-25	-25.0	13		0	BD		
8	08:14	0.00	0.00	128	128.0	-25	-25.0	13		0	BD		
9	13:41	0.00	0.00	131	129.6	-25	-25.0	13		0	BD		
10	12:59	0.00	0.00	131	129.4	-25	-25.0	13		0	GB		
11	13:10	0.00	0.00	131	129.0	-25	-26.0	13		0	GB		
12	12:56	0.00	0.00	131	129.3	-25	-26.0	13		0	GB		
13	10:20	251.17	0.79	130	126.6	-25	-25.0	13		0	AB		
14	07:45	0.00	0.00	128	125.9	-25	-26.0	12		0	AB		
15	15:20	0.00	0.00	131	129.7	-25	-25.0	13		0	AB		
16	08:50	0.00	0.00	131	128.9	-25	-25.0	13		0	DV		
17	08:40	0.00	0.00	130	128.4	-25	-25.0	13		0	DV		
18	08:20	0.00	0.00	128	128.2	-25	-25.0	13		0	DV		
19	09:50	0.00	0.00	130	128.2	-25	-25.0	13		0	AB		
20	09:23	502.24	0.79	124	121.6	-24	-24.0	11		0	JJ		
21	09:19	0.00	0.00	126	125.2	-25	-25.0	12		0	CWA		
22	09:24	0.00	0.00	126	126.4	-25	-25.0	13		0	CWA		
23	08:41	0.00	0.00	130	127.7	-25	-25.0	13		0	JCJ		
24	11:07	0.00	0.00	130	126.8	-25	-24.0	14		0	JCJ		
25	11:10	0.00	0.00	130	126.7	-25	-25.0	14		0	JCJ		
26	10:49	0.00	0.00	130	126.0	-25	-25.0	13		0	JCJ		
27	13:30	133.40	0.74	128	124.6	-26	-25.0	13		0	RRP		
28	13:45	0.00	0.00	128	126.1	-26	-25.0	12		0	RRP		
29	13:31	0.00	0.00	130	127.3	-26	-25.0	13		0	RRP		
30	11:16	0.00	0.00	130	126.9	-26	-25.0	13		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	76.50	11/06/2023	6.88	11/06/2023	N/A				
2	64.50	11/13/2023	6.65	11/13/2023	N/A				
3	52.00	11/20/2023	7.00	11/20/2023	N/A				
4	60.00	11/27/2023	6.90	11/27/2023	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 10/03/2023
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	2,140.000	mg/l
Chloride	34,300.000	mg/l
Conductivity	77.800	Mmhos
Magnesium	546.000	mg/l
Sodium	15,800.000	mg/l
Sulfate	3,060.000	mg/l
Total Alkalinity as CaCO3	342.000	mg/l
Total Dissolved Solids	52,900.000	mg/l
Total Suspended Solids	11.600	mg/l