Facility Well Name Redbarn #1 **UIC Permit #** KS-01-009-001 **Month** December **Year** 2023

Submitted 01/23/2024 **Approved** 01/25/2024 **KOLAR Document ID** 1747649

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

Barrels per Day Maximum: 4,762

			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	1,900	6.98	72	71	23.1	22.4	0
Monthly Maximum	3,515	9.64	80	79	26.0	25.5	0
Monthly Minimum	0	0.00	61	60	1.0	0.3	0
Monthly Total	58,903						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
79.16	60.06	-.30	-25.45

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	04:48	1,400.10	7.93	80	78.6	22	21.2	29	N/A	0	DM		
2	05:12	2,603.38	9.05	77	76.3	25	24.4	29	N/A	0	DM		
3	12:40	2,598.86	0.00	80	79.2	24	23.4	30	N/A	0	DM		
4	04:56	2,058.81	9.55	77	75.7	25	24.6	29	N/A	0	DM		
5	08:22	2,809.83	9.45	77	76.8	25	24.9	29	N/A	0	DM		
6	08:02	1,935.81	8.36	77	75.9	22	21.1	29	N/A	0	DM		
7	04:40	1,538.93	9.07	78	77.3	25	24.3	30	N/A	0	DM		
8	04:53	2,617.69	8.74	78	77.2	25	24.1	30	N/A	0	DM		
9	04:30	2,421.31	8.95	75	74.6	25	24.9	30	N/A	0	DM		
10	09:30	1,497.21	7.43	70	69.0	25	24.1	30	N/A	0	DM		
11	08:06	2,326.00	8.81	70	68.7	25	24.7	30	N/A	0	DM		
12	08:32	3,120.40	6.07	70	69.4	20	18.2	29	N/A	0	DM		
13	08:53	1,691.57	9.64	70	69.0	26	25.5	30	N/A	0	DM		
14	07:10	2,109.02	8.43	71	70.2	22	21.2	30	N/A	0	DM		
15	04:32	1,476.17	8.00	71	70.4	22	20.7	30	N/A	0	DM		
16	05:18	3,514.76	8.48	68	67.9	26	25.2	30	N/A	0	DM		
17	10:28	1,992.71	0.00	72	71.1	24	23.8	30	N/A	0	DM		
18	09:18	0.00	0.00	72	71.1	1	0.3	30	N/A	0	DM		
19	05:06	775.86	9.24	66	65.1	25	24.5	29	N/A	0	DM		
20	12:00	1,493.19	0.00	70	71.5	24	22.1	30	N/A	0	DM		
21	10:08	183.86	7.40	71	70.0	24	23.4	29	N/A	0	DM		
22	09:52	794.55	8.95	70	69.5	24	23.8	30	N/A	0	DM		
23	10:09	915.45	5.02	68	67.7	14	12.0	29	N/A	0	DM		
24	10:55	1,938.12	8.07	70	68.1	21	21.0	30	N/A	0	DM		
25	11:24	1,439.55	0.00	62	61.6	25	25.0	30	N/A	0	DM		
26	06:25	811.93	9.21	61	60.1	26	25.1	29	N/A	0	DM		
27	04:34	2,058.90	9.26	73	72.1	26	25.2	30	N/A	0	DM		
28	05:45	2,459.83	8.14	74	72.4	24	23.5	29	N/A	0	DM		
29	05:33	1,954.48	7.43	72	71.9	26	25.3	30	N/A	0	DM		
30	04:51	3,108.62	9.36	73	72.2	22	21.5	29	N/A	0	DM		
31	09:52	3,255.98	6.19	73	72.1	25	24.5	30	N/A	0	DM		

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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	56.79	12/06/2023	8.32	12/06/2023	162.0	12/06/2023	12/13/2023		
2	57.12	12/13/2023	8.54	12/13/2023	176.0	12/13/2023	12/20/2023		
3	73.36	12/20/2023	8.77	12/20/2023	161.0	12/20/2023	12/27/2023		
4	52.53	12/27/2023	8.64	12/27/2023	154.0	12/27/2023	01/03/2024		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 12/07/2023
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
Ammonia	14.700	mg/l
Biological Oxygen Demand (BOD)	26.200	mg/l
Calcium	18,000.000	mg/l
Conductivity	1,760.000	Mmhos
Magnesium	5,420.000	mg/l
Oil and Grease	ND	mg/l
Sodium	295,000.000	mg/l
Sulfate	52.100	mg/l
Total Alkalinity as CaCO3	127.00000	mg/l (as CaCO3)
Total Dissolved Solids	816.000	mg/l
Total Suspended Solids	61.000	mg/l