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

Submitted 04/28/2023 **Approved** 04/28/2023 **KOLAR Document ID** 1711630

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 35,714

			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	1,567	6.30	70	70	24.2	24.5	0
Monthly Maximum	2,878	7.86	82	83	25.0	26.2	0
Monthly Minimum	644	0.00	63	62	23.0	0.3	0
Monthly Total	48,574						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
83.09	62.24	-0.29	-26.18

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	08:02	1,990.43	7.86	65	64.4	24	25.4	30	N/A	0	SB		
2	05:22	2,059.79	7.76	63	62.2	24	25.6	30	N/A	0	SB		
3	06:23	1,913.40	7.74	73	71.8	24	25.5	30	N/A	0	SB		
4	05:38	1,961.86	7.60	74	73.4	24	25.3	30	N/A	0	SB		
5	11:48	2,796.81	0.00	77	78.5	23	22.9	30	N/A	0	SB		
6	08:11	1,800.43	6.62	73	72.2	24	25.5	30	N/A	0	SB		
7	08:37	1,632.24	7.36	68	67.9	24	25.8	29	N/A	0	SB		
8	08:25	2,187.81	7.67	67	66.2	25	25.8	29	N/A	0	SB		
9	05:29	1,283.31	7.71	75	74.0	24	25.7	30	N/A	0	SB		
10	09:22	2,109.45	7.48	71	70.9	24	25.9	30	N/A	0	SB		
11	05:40	1,959.52	7.67	71	70.7	24	25.1	30	N/A	0	SB		
12	07:16	1,953.76	0.00	68	67.9	24	25.5	30	N/A	0	SB		
13	07:16	1,634.26	7.55	64	64.4	25	26.2	30	N/A	0	SB		
14	04:27	1,037.31	7.43	65	63.6	24	26.0	30	N/A	0	SB		
15	04:06	1,271.60	7.64	80	79.3	24	25.4	30	N/A	0	SB		
16	05:04	686.60	7.26	82	83.1	25	24.2	30	N/A	0	SB		
17	05:03	883.67	7.33	71	72.3	25	26.1	30	N/A	0	SB		
18	05:03	1,448.33	7.33	68	69.2	25	26.1	30	N/A	0	SB		
19	08:24	1,959.45	0.00	66	65.1	23	0.3	30	N/A	0	SB		
20	07:13	643.93	7.74	67	66.5	24	25.3	30	N/A	0	SB		
21	04:25	2,035.81	7.38	63	65.3	24	25.1	30	N/A	0	SB		
22	05:35	1,158.40	7.50	63	66.7	24	25.1	30	N/A	0	SB		
23	04:48	2,877.86	7.76	65	64.6	24	25.4	30	N/A	0	SB		
24	03:57	1,418.79	7.26	75	76.5	24	25.4	30	N/A	0	SB		
25	04:16	872.90	7.55	76	75.9	24	25.2	30	N/A	0	SB		
26	05:34	1,634.31	0.00	70	71.3	25	24.1	30	N/A	0	SB		
27	03:58	1,238.76	7.05	69	68.5	24	25.9	30	N/A	0	SB		
28	08:50	1,321.93	7.50	63	69.4	24	25.8	30	N/A	0	SB		
29	04:35	897.38	7.79	64	70.8	24	25.6	29	N/A	0	SB		
30	04:41	1,018.14	7.64	65	72.3	24	25.0	29	N/A	0	SB		
31	05:15	885.62	0.00	74	73.2	25	24.7	30	N/A	0	SB		

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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	70.22	03/01/2023	7.31	03/01/2023	198.0	03/01/2023	03/08/2023		
2	65.22	03/08/2023	7.58	03/08/2023	186.0	03/08/2023	03/15/2023		
3	65.88	03/15/2023	7.50	03/15/2023	178.0	03/15/2023	03/22/2023		
4	72.28	03/22/2023	7.80	03/22/2023	185.0	03/22/2023	03/29/2023		
5	68.25	03/29/2023	7.33	03/29/2023	184.0	03/29/2023	04/05/2023		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 03/20/2023
Kansas Lab Certificate Number 60424326001
Lab Name

These samples shall be representative of injection activity and shall therefore be collected on days of injection.

Constituent	Value	Units
Ammonia	45.200	mg/l
Biological Oxygen Demand (BOD)	47.600	mg/l
Calcium	19,300.000	mg/l
Conductivity	2,190.000	Mmhos
Magnesium	8,630.000	mg/l
Oil and Grease	10.10000	mg/l
Sodium	348,000.000	mg/l
Sulfate	57.200	mg/l
Total Alkalinity as CaCO3	712.00000	mg/l (as CaCO3)
Total Dissolved Solids	1,050.000	mg/l
Total Suspended Solids	136.000	mg/l