Facility Well Name Redbarn #1 **UIC Permit #** KS-01-009-001 **Month** December **Year** 2021

Submitted 01/28/2022 **Approved** 01/31/2022 **KOLAR Document ID** 1614470

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 0

Barrels per Day Maximum: 35,714

	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		7.81	54	51	-20.0	-20.2	0
Monthly Maximum		12.81	96	93	0.0	-8.0	0
Monthly Minimum		0.00	38	36	-24.0	-24.8	0
Monthly Total							0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
92.61	36.31	0.00	-24.80

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	08:20		5.83	46	43.2	-21	-22.0	30	N/A	0	SB		
2	08:28		8.43	48	43.3	-21	-9.2	30	N/A	0	SB		
3	08:42		12.79	50	44.6	-21	-23.3	31	N/A	0	SB		
4	08:40		12.81	45	42.9	-22	-23.8	31	N/A	0	SB		
5	08:13		8.29	44	43.1	-8	-9.7	31	N/A	0	SB		
6	08:35		7.60	44	40.2	-22	-24.0	30	N/A	0	SB		
7	08:09		12.74	40	39.9	-23	-23.5	29	N/A	0	SB		
8	08:18		7.93	40	37.8	-22	-24.2	29	N/A	0	SB		
9	08:30		12.71	40	39.7	-22	-23.7	30	N/A	0	SB		
10	08:28		12.29	40	40.9	-20	-22.0	30	N/A	0	SB		
11	11:01		0.00	40	38.9	-22	-19.1	30	N/A	0	SB		
12	10:55		7.90	39	39.4	-11	-8.7	29	N/A	0	SB		
13	08:35		8.69	40	36.3	-21	-24.1	29	N/A	0	SB		
14	08:36		8.31	38	37.3	-23	-9.7	30	N/A	0	SB		
15	07:54		7.81	40	40.8	-21	-8.4	30	N/A	0	SB		
16	07:46		7.60	40	36.7	-21	-8.0	30	N/A	0	SB		
17	07:50		0.00	78	79.2	0	-22.8	32	N/A	0	SB		
18	07:12		0.00	66	66.2	-19	-20.2	29	N/A	0	SB		
19	07:29		0.00	60	57.4	-12	-19.1	27	N/A	0	SB		
20	10:28		9.19	60	55.7	-23	-20.7	29	N/A	0	SB		
21	12:13		7.55	60	60.3	-23	-23.5	29	N/A	0	SB		
22	07:19		8.64	56	57.6	-22	-23.2	29	N/A	0	SB		
23	07:55		8.62	50	50.9	-23	-22.9	29	N/A	0	SB		
24	07:54		7.60	50	52.0	-23	-23.8	29	N/A	0	SB		
25	08:30		8.74	50	53.0	-23	-23.8	30	N/A	0	SB		
26	10:30		8.81	50	53.4	-22	-23.8	30	N/A	0	SB		
27	07:38		8.31	78	47.4	-21	-24.8	29	N/A	0	SB		
28	07:13		8.45	70	74.9	-23	-23.9	29	N/A	0	SB		
29	08:16		8.14	68	67.0	-24	-24.2	28	N/A	0	SB		
30	07:26		8.36	96	60.2	-21	-22.7	28	N/A	0	SB		
31	07:23		8.12	94	92.6	-21	-24.3	28	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	67.92	12/01/2021	7.25	12/01/2021	168.0	12/01/2021	12/08/2021		
2	57.82	12/08/2021	7.07	12/08/2021	170.0	12/08/2021	12/15/2021		
3	63.53	12/15/2021	7.07	12/15/2021	172.0	12/15/2021	12/22/2021		
4	58.79	12/22/2021	7.08	12/22/2021	151.0	12/22/2021	12/29/2021		
5	33.36	12/29/2021	7.31	12/29/2021	179.0	12/29/2021	01/05/2022		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 12/15/2021
Kansas Lab Certificate Number E-10116
Lab Name Pace Analytical-Lenexa

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

Constituent	Value	Units
Ammonia	30.500	mg/l
Biological Oxygen Demand (BOD)	21.300	mg/l
Calcium	81.900	mg/l
Conductivity	1,520.000	Mmhos
Magnesium	14.400	mg/l
Oil and Grease	0.00000	mg/l
Sodium	20.300	mg/l
Sulfate	0.000	mg/l
Total Alkalinity as CaCO3	362.00000	mg/l (as CaCO3)
Total Dissolved Solids	799.000	mg/l
Total Suspended Solids	32.500	mg/l