Facility Well Name Redbarn #1 **UIC Permit #** KS-01-009-001 **Month** December **Year** 2020

Submitted 02/05/2021 **Approved** 02/23/2021 **KOLAR Document ID** 1548952

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 24

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	1,500	7.17	113	114	-12.6	-14.4	0
Monthly Maximum	2,244	10.71	120	121	-6.0	-7.0	0
Monthly Minimum	0	0.00	100	101	-19.0	-21.8	0
Monthly Total	46,513						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
122.32	99.86	-5.35	-23.70

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	09:00	0.00	0.00	115	114.2	-6	-7.0	32	N/A	0	NR		
2	09:30	0.00	0.00	115	116.9	-9	-11.0	32	N/A	0	NR		
3	10:00	0.00	0.00	115	114.6	-7	-8.4	32	N/A	0	NR		
4	11:00	2,239.07	9.79	120	119.2	-14	-15.4	32	N/A	0	NR		
5	10:00	2,013.67	9.48	120	118.5	-12	-12.9	32	N/A	0	NR		
6	11:00	1,909.50	9.17	120	121.2	-14	-15.7	32	N/A	0	NR		
7	08:00	1,805.81	10.71	105	102.4	-19	-21.8	32	N/A	0	NR		
8	09:00	1,890.19	9.88	105	104.9	-16	-17.5	32	N/A	0	NR		
9	10:00	1,625.57	9.50	105	106.2	-14	-15.1	32	N/A	0	NR		
10	11:00	1,449.50	9.02	100	102.9	-12	-13.7	32	N/A	0	NR		
11	09:30	1,792.24	9.07	100	103.6	-16	-18.4	32	N/A	0	NR		
12	10:00	2,032.00	9.33	120	119.7	-18	-19.9	31	N/A	0	NR		
13	09:30	0.00	0.00	120	121.1	-7	-7.4	31	N/A	0	NR		
14	08:00	0.00	0.00	115	116.0	-8	-8.2	31	N/A	0	NR		
15	08:30	0.00	0.00	115	114.5	-8	-9.3	31	N/A	0	NR		
16	10:00	0.00	0.00	115	116.0	-8	-8.3	31	N/A	0	NR		
17	10:30	1,782.88	9.14	110	113.5	-16	-17.1	31	N/A	0	NR		
18	09:30	1,960.98	8.90	110	111.5	-10	-14.0	31	N/A	0	NR		
19	07:00	1,829.62	7.52	110	112.4	-13	-15.0	31	N/A	0	NR		
20	09:30	2,015.60	8.43	100	102.6	-14	-16.4	31	N/A	0	NR		
21	08:00	1,883.05	8.67	100	103.4	-12	-14.5	31	N/A	0	NR		
22	10:00	2,003.76	8.21	100	101.2	-14	-15.8	31	N/A	0	NR		
23	11:00	1,763.21	8.71	120	119.1	-14	-16.5	31	N/A	0	NR		
24	10:00	1,915.86	9.02	120	121.3	-12	-13.8	31	N/A	0	NR		
25	09:00	1,789.93	9.33	120	120.9	-14	-15.9	31	N/A	0	NR		
26	08:00	1,901.83	9.55	115	116.4	-11	-12.5	32	N/A	0	NR		
27	09:30	2,119.24	9.50	115	116.9	-16	-17.9	32	N/A	0	NR		
28	10:00	2,243.95	9.57	115	116.7	-12	-14.8	32	N/A	0	NR		
29	09:00	2,168.52	9.79	115	115.8	-13	-15.7	32	N/A	0	NR		
30	11:00	2,239.17	9.88	115	116.9	-15	-16.8	32	N/A	0	NR		
31	09:30	2,137.81	10.00	120	119.5	-17	-19.4	32	N/A	0	NR		

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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									
2	74.60	12/09/2020	7.02	12/09/2020	730.0	12/09/2020			
3									
4	64.16	12/29/2020	8.01	12/29/2020	773.0	12/29/2020	01/04/2021		
5									

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 12/29/2020
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	92.200	mg/l
Biological Oxygen Demand (BOD)	854.000	mg/l
Calcium	79.000	mg/l
Conductivity	3.780	Mmhos
Magnesium	17.000	mg/l
Oil and Grease	54.40000	mg/l
Sodium	593.000	mg/l
Sulfate	23.300	mg/l
Total Alkalinity as CaCO3	809.00000	mg/l (as CaCO3)
Total Dissolved Solids	1,910.000	mg/l
Total Suspended Solids	128.000	mg/l