Facility Well Name Redbarn #1 **UIC Permit #** KS-01-009-001 **Month** December **Year** 2019

Submitted 01/29/2020 **Approved** 02/04/2020 **KOLAR Document ID** 1492774

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	1,258	10.46	104	107	-17.5	-15.8	0
Monthly Maximum	2,579	12.31	115	116	-8.0	-9.0	0
Monthly Minimum	326	7.40	80	81	-111.0	-21.3	0
Monthly Total	38,997						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
122.78	81.06	-1.24	-24.70

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	14:30	1,132.40	9.98	100	103.1	-14	-17.6	31	N/A	0	NR		
2	14:30	1,497.86	12.31	80	81.4	-10	-9.9	32	N/A	0	NR		
3	07:00	1,536.86	9.81	80	82.1	-18	-20.5	32	N/A	0	NR		
4	15:00	1,877.71	7.40	115	116.1	-17	-20.2	31	N/A	0	NR		
5	08:00	1,895.90	9.60	110	108.0	-12	-11.2	32	N/A	0	NR		
6	11:00	2,345.33	12.31	100	102.1	-19	-20.1	32	N/A	0	NR		
7	14:30	1,686.10	9.90	105	105.9	-19	-21.3	32	N/A	0	NR		
8	09:00	901.71	9.57	105	107.2	-16	-19.3	32	N/A	0	NR		
9	12:00	1,096.29	11.67	105	106.8	-19	.21.63	32	N/A	0	NR		
10	11:00	484.45	12.17	105	106.3	-16	-19.4	32	N/A	0	NR		
11	10:00	964.40	9.81	110	111.7	-12	-14.3	32	N/A	0	NR		
12	11:00	636.67	11.67	105	107.1	-14	-11.1	31	N/A	0	NR		
13	11:00	591.21	12.17	110	111.2	-14	-17.0	32	N/A	0	NR		
14	10:00	430.69	9.57	105	108.2	-16	-19.6	32	N/A	0	NR		
15	08:00	562.05	9.57	110	112.1	-14	-15.0	32	N/A	0	NR		
16	15:00	417.19	11.43	110	112.8	-8	-9.7	32	N/A	0	NR		
17	07:00	1,915.90	8.86	90	92.8	-18	-20.7	32	N/A	0	NR		
18	08:00	2,387.90	12.17	100	100.3	-8	-9.1	31	N/A	0	NR		
19	11:00	783.12	9.98	110	113.6	-14	-16.3	31	N/A	0	NR		
20	10:00	1,124.17	10.19	110	114.2	-12	-14.3	31	N/A	0	NR		
21	09:30	1,044.62	9.79	110	112.6	-12	-14.2	32	N/A	0	NR		
22	10:00	1,383.60	9.69	110	115.1	-15	-16.7	32	N/A	0	NR		
23	08:00	2,465.26	9.57	110	113.5	-14	-17.1	32	N/A	0	NR		
24	10:00	2,161.52	10.24	100	104.1	-19	-20.4	32	N/A	0	NR		
25	12:00	2,578.67	12.07	110	112.3	-12	-14.3	32	N/A	0	NR		
26	15:00	1,502.10	12.17	100	103.2	-19	.21.30	32	N/A	0	NR		
27	10:00	1,055.90	9.45	110	112.7	-14	-16.3	32	N/A	0	NR		
28	11:00	687.14	9.98	110	111.7	-12	-14.3	32	N/A	0	NR		
29	11:00	326.14	11.86	110	112.1	-11	-14.2	32	N/A	0	NR		
30	09:00	585.95	9.48	110	110.0	-111	-9.0	31	N/A	0	NR		
31	14:00	937.81	9.81	90	91.3	-12	-15.5	32	N/A	0	NR		

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Weekly Injectate Samples

Kansas Lab Certificate Number 1011610426

Week	**Temperature**		**pH**		**Chloride**				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	74.13	12/04/2019	7.10	12/04/2019	423.0	12/04/2019	12/12/2019		
2	83.16	12/11/2019	7.20	12/11/2019	486.0	12/11/2019	12/17/2019		
3	73.14	12/19/2019	7.03	12/19/2019	518.0	12/19/2019	12/27/2019		
4	81.13	12/30/2019	7.20	12/30/2019	438.0	12/30/2019	01/02/2019		
5									

No monthly injectate samples required.