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

Submitted 04/15/2021 **Approved** 04/15/2021 **KOLAR Document ID** 1568713

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	2,007	10.68	109	110	-17.6	-19.5	
Monthly Maximum	4,661	13.81	115	119	-14.0	-16.1	
Monthly Minimum	62	2.74	90	92	-19.0	-21.8	
Monthly Total	62,212						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
126.94	107.66	-4.98	-22.10

Comments:

Have been cleaning in prep for river discharge. Discharge has been rather sparatic as we are testing new pump and waste transfer system. ETA of completion 6/30/19 Original report was uploaded as March 2019, with document ID#1464089. Is being re-uploaded with correct month - Sue Funk, 4/15/2021

Redbarn #1 05/2019

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	07:00	1,629.76	12.62	110	113.2	-18	-20.4	28	N/A		NR		
2	08:00	2,934.19	12.45	110	112.7	-18	-20.1	28	N/A		NR		
3	08:00	1,420.19	11.95	105	107.1	-19	-21.2	28	N/A		NR		
4	09:00	4,010.95	9.69	105	106.1	-17	-19.3	28	N/A		NR		
5	10:00	2,119.81	9.81	105	106.2	-18	-20.0	28	N/A		NR		
6	08:00	3,509.14	12.29	105	105.3	-17	-19.0	28	N/A		NR		
7	11:00	4,661.05	12.31	105	106.9	-17	-19.0	28	N/A		NR		
8	10:00	2,863.14	9.50	105	106.1	-18	-19.3	28	N/A		NR		
9	08:00	4,083.52	8.29	100	102.2	-16	-18.7	28	N/A		NR		
10	10:00	3,674.31	7.60	115	117.1	-19	-21.3	28	N/A		NR		
11	11:00	2,670.12	2.74	115	117.0	-17	-19.0	28	N/A		NR		
12	09:00	787.64	11.43	115	117.6	-19	-21.2	28	N/A		NR		
13	10:00	803.45	12.38	115	116.2	-19	-20.1	28	N/A		NR		
14	11:00	3,779.43	9.98	105	106.1	-16	-16.1	28	N/A		NR		
15	10:00	370.67	9.57	110	108.4	-16	-17.7	28	N/A		NR		
16	11:00	149.38	12.19	105	107.0	-17	-19.2	28	N/A		NR		
17	14:00	153.57	9.21	105	107.1	-17	-19.4	28	N/A		NR		
18	13:00	1,504.24	9.98	100	102.1	-18	-20.2	28	N/A		NR		
19	10:00	83.86	11.67	100	102.2	-19	-21.8	28	N/A		NR		
20	14:00	248.29	9.81	90	92.4	-19	-21.0	28	N/A		NR		
21	11:00	3,596.29	11.67	110	112.6	-16	-17.6	28	N/A		NR		
22	08:00	1,281.14	12.79	110	111.7	-14	-16.5	28	N/A		NR		
23	10:30	4,311.12	11.43	115	116.1	-19	-20.1	28	N/A		NR		
24	09:00	2,441.60	10.19	115	116.7	-18	-19.8	28	N/A		NR		
25	09:30	2,420.33	11.60	115	116.0	-17	-19.5	28	N/A		NR		
26	11:00	2,431.93	9.50	115	116.3	-18	-21.0	28	N/A		NR		
27	10:00	2,410.81	11.93	115	116.3	-19	-21.1	28	N/A		NR		
28	08:00	62.14	11.67	115	116.8	-18	-19.8	28	N/A		NR		
29	09:00	838.64	13.81	110	110.2	-17	-18.1	28	N/A		NR		
30	10:00	516.69	11.43	110	110.8	-19	-20.9	28	N/A		NR		
31	11:00	444.29	9.50	115	118.6	-16	-17.4	28	N/A		NR		

Redbarn #1 05/2019

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	48.12	05/01/2019	6.53	05/01/2019	147.0	05/01/2019	05/09/2019		
2	60.34	05/08/2019	7.31	05/08/2019	148.0	05/08/2019	05/16/2019		
3	63.50	05/15/2019	6.80	05/15/2019	171.0	05/15/2019	05/17/2019		
4	72.30	05/22/2019	7.25	05/22/2019	249.0	05/22/2019	06/06/2019		
5	64.50	05/29/2019	7.80	05/29/2019	132.0	05/29/2019			

No monthly injectate samples required.

Redbarn #1 05/2019

Quarterly Injectate Samples

Quarter 2
Date Sample Collected 05/15/2019
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	77.400	mg/l
Biological Oxygen Demand (BOD)	448.000	mg/l
Calcium	25,700.000	mg/l
Conductivity	1,980.000	Mmhos
Magnesium	14,900.000	mg/l
Oil and Grease	34.20000	mg/l
Sodium	291,000.000	mg/l
Total Alkalinity as CaCO3	693.00000	mg/l (as CaCO3)
Total Dissolved Solids	1,190.000	mg/l
Total Suspended Solids	117.000	mg/l