Facility Well Name Lakin #1 **UIC Permit #** KS-05-093-002 **Month** October **Year** 2019

Submitted 01/24/2020 **Approved** 01/24/2020 **KOLAR Document ID** 1490633

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 7,143

			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	282	0.66	153	146	-9.5	2.4	
Monthly Maximum	476	2.38	160	159	0.0	8.0	
Monthly Minimum	71	0.00	150	139	-30.0	-11.0	
Monthly Total	8,738						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
160.50	141.00	-0.05	-7.70

Comments:

We have had continuous recorder discrepancies, but we believe we figured out the issue. We are currently working to fix the issue.

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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	08:56	404.76	0.00	150	145.0	0	8.0	17			DW		
2	08:51	357.14	0.00	150	147.0	0	8.0	17			NH		
3	08:49	285.71	2.21	150	140.0	-26	-11.0	17			DW		
4	08:38	404.76	2.33	150	140.0	-26	-11.0	17			NH		
5	09:16	357.14	2.24	150	140.0	-26	-11.0	17			DW		
6	08:18	380.95	2.38	150	143.0	-26	-11.0	17			DW		
7	08:45	357.14	0.00	150	146.0	0	8.0	17			DW		
8	08:42	333.33	2.21	150	140.0	-26	-11.0	17			KF		
9	08:34	476.19	2.33	150	139.0	-26	-11.0	17			NH		
10	08:49	190.48	2.21	150	140.0	-26	-11.0	17			DW		
11	09:37	190.48	2.14	150	139.0	-26	-11.0	17			DW		
12	09:17	309.52	0.00	150	146.0	-10	8.0	17			SH		
13	07:50	190.48	0.00	150	147.0	0	8.0	17			SH		
14	08:34	333.33	0.00	150	147.0	0	8.0	17			DW		
15	08:52	214.29	0.00	160	147.0	0	8.0	17			DW		
16	08:38	333.33	0.00	160	147.0	0	7.0	17			DW		
17	08:58	309.52	0.00	150	149.0	0	8.0	17			MM		
18	08:37	309.52	0.00	150	149.0	0	8.0	17			DW		
19	09:13	380.95	0.00	160	148.0	0	8.0	17			DW		
20	08:28	380.95	0.00	150	145.0	0	8.0	17			DW		
21	08:35	238.10	0.00	150	148.0	0	8.0	17			NH		
22	08:40	309.52	0.00	150	148.0	0	7.0	17			DW		
23	08:28	214.29	0.00	150	147.0	-6	8.0	17			DW		
24	08:35	214.29	0.00	150	148.0	-6	8.0	17			DW		
25	09:04	190.48	0.00	160	150.0	-6	8.0	17			DW		
26	08:00	261.90	0.00	160	151.0	-6	8.0	17			SH		
27	09:05	142.86	0.00	160	151.0	-6	8.0	17			SH		
28	08:47	142.86	0.00	160	154.0	-6	8.0	17			DW		
29	09:20	71.43	0.00	160	154.0	-6	8.0	17			DW		
30	08:50	214.29	2.31	150	145.0	-30	-11.0	17			DW		
31	08:39	238.10	0.00	160	159.0	-6	8.0	17			DW		

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Weekly Injectate Samples

Kansas Lab Certificate Number

Week	Temperature		pH		Chloride				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	65.84	10/01/2019	7.84	10/01/2019	N/A				
2					N/A				
3	60.80	10/15/2019	7.61	10/15/2019	N/A				
4	59.18	10/22/2019	7.88	10/22/2019	N/A				
5	59.54	10/29/2019	7.97	10/29/2019	N/A				

No monthly injectate samples required.