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

Submitted 10/28/2019 **Approved** 11/05/2019 **KOLAR Document ID** 1477092

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

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	542	2.19	148	141	-24.3	-9.7	
Monthly Maximum	619	2.57	150	150	0.0	8.0	
Monthly Minimum	381	0.00	130	114	-26.0	-11.0	
Monthly Total	16,262						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
150.00	114.00	-0.04	-7.70

Comments:

We are having issues with the continuous recorder/accurate gauge readings. We are working to get them fixed asap.

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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	07:55	380.95	0.00	150	150.0	0	8.0	17			DW		
2	08:09	523.81	2.10	150	144.0	-26	-11.0	17			DW		
3	08:57	523.81	2.31	150	144.0	-26	-11.0	17			DW		
4	08:43	547.62	2.31	150	145.0	-26	-11.0	17			DW		
5	08:33	571.43	2.29	150	146.0	-26	-11.0	17			DW		
6	08:32	547.62	2.43	150	146.0	-26	-11.0	17			DW		
7	06:25	523.81	2.26	150	147.0	-26	-11.0	17			NH		
8	07:38	523.81	2.14	150	148.0	-26	-11.0	17			NH		
9	08:48	523.81	2.24	150	148.0	-26	-11.0	17			NH		
10	07:45	547.62	2.29	150	149.0	-26	-11.0	17			MM		
11	07:30	595.24	2.43	150	148.0	-26	-11.0	17			NH		
12	08:20	571.43	2.45	150	140.0	-26	-11.0	17			NH		
13	08:29	547.62	2.31	140	135.0	-26	-11.0	17			NH		
14	06:29	571.43	2.29	140	128.0	-26	-11.0	17			SH		
15	08:52	571.43	2.36	140	121.0	-26	-11.0	17			SH		
16	08:52	571.43	2.40	130	114.0	-26	-11.0	17			NH		
17	08:28	595.24	2.45	150	139.0	-26	-11.0	17			DW		
18	08:39	595.24	2.55	150	141.0	-26	-11.0	17			DW		
19	09:04	571.43	2.43	150	140.0	-26	-11.0	17			DW		
20	08:37	619.05	2.45	150	140.0	-26	-11.0	17			DW		
21	08:32	595.24	2.57	150	140.0	-26	-11.0	17			DW		
22	06:56	571.43	2.48	150	140.0	-26	-11.0	17			DW		
23	08:47	547.62	2.29	150	141.0	-26	-11.0	17			DW		
24	09:19	547.62	2.29	150	139.0	-26	-11.0	17			DW		
25	08:34	547.62	2.33	150	141.0	-26	-11.0	17			DW		
26	08:33	523.81	2.26	150	141.0	-26	-11.0	17			DW		
27	08:40	547.62	2.29	150	140.0	-26	-11.0	17			DW		
28	06:34	428.57	0.00	150	146.0	0	8.0	17			NH		
29	06:48	380.95	2.33	150	140.0	-26	-11.0	17			NH		
30	08:44	547.62	2.29	150	139.0	-26	-11.0	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									
2									
3	63.86	09/17/2019	7.97	09/17/2019					
4	74.12	09/24/2019	7.73	09/24/2019					
5									

No monthly injectate samples required.