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

Submitted 08/22/2019 **Approved** 09/01/2019 **KOLAR Document ID** 1469844

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	559	2.20	165	161	-22.6	-8.5	
Monthly Maximum	667	2.81	190	189	0.0	8.0	
Monthly Minimum	357	0.00	150	148	-26.0	-11.0	
Monthly Total	17,333						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
181.70	136.50	3.30	-7.70

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	08:29	595.24	2.33	160	157.0	-26	-11.0	17			DW		
2	08:49	357.14	2.55	160	157.0	-26	-11.0	17			DW		
3	08:05	547.62	2.21	160	157.0	-26	-11.0	17			DW		
4	08:09	404.76	2.17	160	157.0	-26	-11.0	17			DW		
5	06:50	595.24	2.33	160	157.0	-26	-11.0	17			DW		
6	08:56	404.76	2.40	160	157.0	-26	-11.0	17			SH		
7	09:52	476.19	2.69	160	157.0	-26	-11.0	17			SH		
8	08:28	404.76	0.00	170	164.0	0	8.0	17			NH		
9	08:35	428.57	0.00	170	163.0	0	8.0	17			DW		
10	08:23	404.76	0.00	170	161.0	0	8.0	17			DW		
11	08:29	595.24	2.40	160	157.0	-26	-11.0	17			DW		
12	08:27	571.43	2.43	160	157.0	-26	-11.0	17			DW		
13	08:49	595.24	2.45	160	156.0	-26	-11.0	17			SH		
14	08:23	380.95	0.00	170	161.0	0	8.0	17			NH		
15	08:25	595.24	2.38	180	169.0	-26	-11.0	17			NH		
16	08:50	619.05	2.52	180	176.0	-26	-11.0	17			DW		
17	08:34	619.05	2.60	180	175.0	-26	-11.0	17			DW		
18	08:42	642.86	2.57	180	178.0	-26	-11.0	17			DW		
19	07:58	642.86	2.71	180	179.0	-26	-11.0	17			NH		
20	08:50	642.86	2.71	190	181.0	-26	-11.0	17			NH		
21	08:41	642.86	2.69	190	189.0	-26	-11.0	17			NH		
22	08:40	619.05	2.71	170	169.0	-26	-11.0	17			DW		
23	08:44	619.05	2.55	160	157.0	-26	-11.0	17			DW		
24	07:49	642.86	2.57	160	150.0	-26	-11.0	17			NH		
25	08:41	642.86	2.79	150	148.0	-26	-11.0	17			DW		
26	08:43	666.67	2.79	150	150.0	-26	-11.0	17			DW		
27	08:17	642.86	2.81	150	150.0	-26	-11.0	17			DW		
28	09:03	619.05	2.55	150	150.0	-26	-11.0	17			DW		
29	07:45	571.43	2.55	150	151.0	-26	-11.0	17			DW		
30	07:55	571.43	2.36	150	149.0	-26	-11.0	17			DW		
31	08:32	571.43	2.45	150	150.0	-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	69.98	07/02/2019	7.86	07/02/2019	N/A				
2	65.48	07/09/2019	7.77	07/09/2019	N/A				
3	66.56	07/16/2019	7.66	07/16/2019	N/A				
4	65.84	07/22/2019	7.59	07/22/2019	N/A				
5	65.66	07/30/2019	7.65	07/30/2019	N/A				

No monthly injectate samples required.