Facility Well Name Lakin #1 **UIC Permit #** KS-05-093-002 **Month** June **Year** 2020

Submitted 07/28/2020 **Approved** 07/30/2020 **KOLAR Document ID** 1525159

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	2,332	2.42	147	136	-24.3	-7.7	
Monthly Maximum	2,929	3.05	150	144	-22.0	-7.7	
Monthly Minimum	1,833	1.95	140	132	-26.0	-7.7	
Monthly Total	69,952						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
144.00	132.00	-7.70	-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	08:40	1,833.33	1.95	150	134.0	-24	-7.7	32			DW		
2	08:38	2,119.05	2.10	150	134.0	-24	-7.7	32			DW		
3	08:45	2,333.33	2.43	140	133.0	-24	-7.7	32			DW		
4	08:42	2,428.57	2.40	140	134.0	-24	-7.7	32			DW		
5	08:36	2,809.52	2.76	140	133.0	-24	-7.7	32			DW		
6	08:36	2,500.00	3.05	140	133.0	-24	-7.7	32			TL		
7	08:03	2,690.48	2.33	140	132.0	-24	-7.7	32			TL		
8	08:45	2,928.57	2.95	140	133.0	-24	-7.7	32			TL		
9	08:32	2,523.81	3.00	150	135.0	-24	-7.7	32			TL		
10	08:43	2,000.00	2.12	150	140.0	-22	-7.7	32			DW		
11	09:11	1,904.76	2.00	150	137.0	-24	-7.7	32			DW		
12	08:34	2,261.90	2.05	150	135.0	-24	-7.7	32			DW		
13	08:58	2,404.76	2.52	150	136.0	-24	-7.7	32			SH		
14	09:10	2,261.90	2.36	150	132.0	-24	-7.7	32			SH		
15	08:39	2,023.81	2.31	140	133.0	-26	-7.7	32			TL		
16	08:16	2,047.62	2.07	140	132.0	-26	-7.7	32			TL		
17	08:28	2,166.67	2.24	140	132.0	-26	-7.7	32			TL		
18	08:34	2,214.29	2.26	140	132.0	-26	-7.7	32			TL		
19	08:45	2,238.10	2.36	150	135.0	-26	-7.7	32			DW		
20	08:31	2,238.10	2.33	150	135.0	-24	-7.7	32			MM		
21	08:43	2,261.90	2.33	150	136.0	-24	-7.7	32			MM		
22	08:38	2,238.10	2.33	150	139.0	-24	-7.7	32			DW		
23	08:30	2,428.57	2.29	150	140.0	-24	-7.7	32			DW		
24	08:29	2,619.05	2.79	150	140.0	-24	-7.7	32			DW		
25	08:34	2,595.24	2.76	150	141.0	-24	-7.7	32			DW		
26	08:41	2,476.19	2.64	150	142.0	-24	-7.7	32			TL		
27	07:45	2,428.57	2.50	150	142.0	-24	-7.7	32			DW		
28	07:18	2,428.57	2.57	150	144.0	-24	-7.7	32			DW		
29	08:41	2,357.14	2.48	150	143.0	-24	-7.7	32			DW		
30	09:03	2,190.48	2.38	150	139.0	-24	-7.7	32			TL		
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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	66.92	06/02/2020	7.92	06/02/2020	N/A				
2	63.32	06/09/2020	7.94	06/09/2020	N/A				
3	63.50	06/16/2020	7.67	06/16/2020	N/A				
4	67.46	06/23/2020	7.89	06/23/2020	N/A				
5	67.28	06/30/2020	7.86	06/30/2020	N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 05/04/2020
Kansas Lab Certificate Number E-10150
Lab Name Servi-Tech Lab

These samples shall be representative of injection activity and shall therefore be collected on days of injection.

Constituent	Value	Units
Calcium	666.000	mg/l
Chloride	450.000	mg/l
Conductivity	6.740	Mmhos
Gross Alpha	<0.600	pCi/l
Magnesium	377.000	mg/l
Selenium		mg/l
Sodium	646.000	mg/l
Sulfate	1,100.000	mg/l
Total Alkalinity as CaCO3	930.000	mg/l (as CaCO3)
Total Dissolved Solids	5,960.000	mg/l
Total Suspended Solids	5.000	mg/l
Uranium	185.000	mg/l