Facility Well Name Lakin #1 **UIC Permit #** KS-05-093-002 **Month** September **Year** 2021

Submitted 01/13/2022 **Approved** 01/25/2022 **KOLAR Document ID** 1606349

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

Barrels per Day Maximum: 4,762

			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	2,043	2.32	140	130	-23.9	-7.2	
Monthly Maximum	2,571	2.81	140	134	24.0	7.7	
Monthly Minimum	690	1.43	140	126	-26.0	-7.7	
Monthly Total	61,286						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
144.90	121.20	2.60	-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	08:00	2,333.33	2.45	140	128.0	-26	-7.7	33			TL		
2	08:32	2,333.33	2.43	140	126.0	-26	-7.7	33			DW		
3	08:47	2,333.33	2.43	140	127.0	-26	-7.7	33			TL		
4	08:15	2,095.24	2.38	140	128.0	-26	-7.7	33			SH		
5	09:34	690.48	1.64	140	127.0	-26	-7.7	33			SH		
6	09:01	1,928.57	2.24	140	129.0	-26	-7.7	33			SH		
7	08:49	2,071.43	2.24	140	129.0	-26	-7.7	33			TL		
8	08:58	2,071.43	2.14	140	131.0	-26	-7.7	33			DW		
9	08:45	2,166.67	2.26	140	131.0	-26	-7.7	33			TL		
10	08:48	2,238.10	2.40	140	130.0	-26	-7.7	33			DW		
11	07:42	2,214.29	2.31	140	130.0	-26	-7.7	33			TL		
12	08:21	2,142.86	2.29	140	128.0	-26	-7.7	33			TL		
13	09:00	2,309.52	2.26	140	129.0	-26	-7.7	33			DW		
14	08:40	2,238.10	2.50	140	129.0	-26	-7.7	33			TL		
15	08:37	2,380.95	2.26	140	129.0	-26	-7.7	33			DW		
16	08:38	2,119.05	2.43	140	134.0	-26	-7.7	33			TL		
17	08:50	1,571.43	2.67	140	129.0	-26	-7.7	33			DW		
18	08:17	1,928.57	2.38	140	130.0	-26	-7.7	33			SH		
19	08:09	1,285.71	1.43	140	127.0	-24	-7.7	33			SH		
20	08:56	2,500.00	2.81	140	129.0	-26	-7.7	33			TL		
21	08:41	1,761.90	2.74	140	131.0	-26	-7.7	33			DW		
22	08:45	1,928.57	2.07	140	132.0	-24	-7.7	33			TL		
23	08:51	2,023.81	2.14	140	131.0	-24	-7.7	33			DW		
24	08:46	2,476.19	2.81	140	130.0	24	7.7	33			TL		
25	08:55	1,976.19	2.76	140	132.0	-24	-7.7	33			MM		
26	08:48	1,833.33	2.07	140	131.0	-26	-7.7	33			MM		
27	08:57	2,023.81	2.12	140	131.0	-24	-7.7	32			TL		
28	08:41	2,404.76	2.19	140	130.0	-26	-7.7	32			DW		
29	08:28	2,571.43	2.69	140	132.0	-24	-7.7	32			TL		
30	08:40	1,333.33	2.05	140	134.0	-26	-7.7	32			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	62.78	09/07/2021	7.98	09/07/2021	N/A				
2	63.68	09/14/2021	7.95	09/14/2021	N/A				
3	62.78	09/22/2021	8.01	09/22/2021	N/A				
4	64.76	09/28/2021	7.52	09/28/2021	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 10/11/2021
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	595.000	mg/l
Chloride	430.000	mg/l
Conductivity	6.080	Mmhos
Gross Alpha	109.000	pCi/l
Magnesium	339.000	mg/l
Selenium	0.034	mg/l
Sodium	556.000	mg/l
Sulfate	2,900.000	mg/l
Total Alkalinity as CaCO3	1,100.000	mg/l
Total Dissolved Solids	5,770.000	mg/l
Total Suspended Solids		mg/l
Uranium	0.180	mg/l