Facility Well Name Lakin #1 **UIC Permit #** KS-05-093-002 **Month** September **Year** 2022

Submitted 10/03/2022 **Approved** 10/07/2022 **KOLAR Document ID** 1667562

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	2,310	2.44	159	147	-13.6	-6.0	
Monthly Maximum	3,238	3.38	170	156	20.0	-0.3	
Monthly Minimum	643	0.00	150	138	-22.0	-7.7	
Monthly Total	69,310						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
156.00	138.00	-0.27	-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	07:57	2,452.38	0.00	160	152.0	2	-0.3	32			TL		
2	07:57	2,666.67	3.31	160	147.0	-20	-7.7	32			DW		
3	08:55	2,476.19	3.29	170	154.0	-20	-7.7	32			DW		
4	08:42	2,333.33	3.29	160	147.0	-20	-7.7	32			DW		
5	09:01	2,571.43	3.31	160	148.0	-20	-7.7	32			MM		
6	08:19	2,571.43	0.00	160	156.0	2	-0.4	32			TL		
7	08:27	3,071.43	3.19	160	146.0	-20	-7.7	32			DW		
8	08:04	2,476.19	0.00	160	151.0	2	-0.4	32			DW		
9	08:03	2,500.00	3.17	160	147.0	-20	-7.7	32			TL		
10	07:04	2,071.43	3.14	160	148.0	-20	-7.7	32			RV		
11	07:11	1,809.52	3.14	160	146.0	-18	-7.7	32			RV		
12	08:07	2,642.86	3.12	160	145.0	20	-7.7	32			TL		
13	08:05	2,095.24	0.00	160	151.0	2	-0.5	32			DW		
14	08:03	2,523.81	0.00	160	153.0	2	-0.4	32			TL		
15	08:13	2,095.24	3.07	150	143.0	-20	-7.7	32			DW		
16	08:26	2,404.76	3.10	160	146.0	-20	-7.7	32			TL		
17	07:39	2,190.48	3.07	160	144.0	-20	-7.7	32			JS		
18	07:06	2,142.86	3.07	160	143.0	-20	-7.7	32			JS		
19	08:07	2,166.67	3.05	150	141.0	-22	-7.7	32			TL		
20	08:25	2,380.95	3.07	150	142.0	-20	-7.7	32			DW		
21	08:06	2,166.67	3.07	150	142.0	-22	-7.7	32			TL		
22	08:20	1,500.00	3.07	160	146.0	-20	-7.7	32			DW		
23	07:53	2,119.05	3.29	160	147.0	-20	-7.7	32			TL		
24	06:42	1,738.10	3.26	160	147.0	-20	-7.7	32			TL		
25	08:28	642.86	0.00	160	153.0	2	-0.6	32			TL		
26	08:19	2,095.24	3.29	160	153.0	-20	-7.7	32			TL		
27	08:07	3,238.10	3.29	160	146.0	-20	-7.7	32			DW		
28	08:06	3,238.10	3.38	160	145.0	-20	-7.7	32			TL		
29	08:03	2,500.00	0.00	160	152.0	2	-0.7	32			TL		
30	08:12	2,428.57	3.29	160	138.0	-20	-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	63.68	09/06/2022	8.01	09/06/2022	N/A				
2	63.32	09/13/2022	8.29	09/13/2022	N/A				
3	64.76	09/20/2022	8.05	09/20/2022	N/A				
4	61.70	09/27/2022	8.04	09/27/2022	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 07/11/2022
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	380.000	mg/l
Chloride	2,400.000	mg/l
Conductivity	6.380	Mmhos
Gross Alpha	133.000	pCi/l
Magnesium	325.000	mg/l
Selenium	31.700	mg/l
Sodium	515.000	mg/l
Sulfate	800.000	mg/l
Total Alkalinity as CaCO3	890.000	mg/l
Total Dissolved Solids	5,490.000	mg/l
Total Suspended Solids	ND	mg/l
Uranium	160.000	mg/l