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

Submitted 01/23/2023 **Approved** 01/25/2023 **KOLAR Document ID** 1678441

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

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	932	0.85	138	126	-6.1	-2.7	
Monthly Maximum	1,381	3.57	160	147	4.0	-0.2	
Monthly Minimum	667	0.00	120	108	-30.0	-7.7	
Monthly Total	28,881						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
147	108	-.02	-7.7

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	08:22	1,071.43	0.00	130	114.0	0	-0.4	31			DW		
2	08:25	1,095.24	0.00	130	121.0	2	-0.2	31			TL		
3	07:22	714.29	0.00	130	124.0	0	-0.3	31			RV		
4	07:08	714.29	0.00	140	127.0	0	-0.3	31			RV		
5	08:35	1,047.62	2.76	120	116.0	-26	-7.7	32			TL		
6	08:24	666.67	0.00	150	137.0	0	-0.4	31			DW		
7	08:32	714.29	2.74	140	127.0	-26	-7.7	32			TL		
8	08:32	904.76	0.00	120	111.0	0	-0.3	32			DW		
9	08:51	1,000.00	0.00	140	128.0	0	-0.8	32			RV		
10	07:08	690.48	0.00	140	126.0	0	-0.9	31			JS		
11	07:05	809.52	0.00	140	129.0	0	-0.8	31			JS		
12	08:22	666.67	0.00	140	129.0	0	-0.7	31			RV		
13	08:50	785.71	2.76	130	115.0	-22	-7.7	31			DW		
14	08:30	785.71	2.76	130	111.0	-22	-7.7	31			DW		
15	08:43	809.52	3.57	120	110.0	-20	-7.7	31			DW		
16	08:12	880.95	0.00	140	127.0	0	-0.4	31			DW		
17	07:20	976.19	0.00	140	123.0	0	-1.0	31			RV		
18	07:35	738.10	0.00	140	127.0	0	-0.9	31			RV		
19	08:19	666.67	0.00	140	131.0	2	-0.7	31			DW		
20	08:39	857.14	3.31	140	130.0	-24	-7.7	31			DW		
21	08:06	1,023.81	2.83	150	134.0	-30	-7.7	31			TL		
22	08:40	1,023.81	2.86	130	111.0	-20	-7.7	33			TL		
23	09:37	1,380.95	2.86	130	108.0	-22	-7.7	30			SH		
24	09:18	1,285.71	0.00	160	147.0	2	-1.1	30			SH		
25	06:37	1,095.24	0.00	150	141.0	2	-1.0	30			SH		
26	08:23	1,214.29	0.00	160	135.0	2	-0.8	30			SH		
27	08:21	1,071.43	0.00	150	137.0	2	-1.9	30			DW		
28	08:33	1,047.62	0.00	140	131.0	2	-0.6	31			TL		
29	08:34	1,190.48	0.00	140	131.0	4	-0.7	31			DW		
30	08:37	928.57	0.00	140	132.0	2	-0.9	31			RV		
31	08:35	1,023.81	0.00	140	133.0	2	-0.8	31			MM		

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Weekly Injectate Samples

Kansas Lab Certificate Number E-10150

Week	**Temperature**		**pH**		**Chloride**				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	60.44	12/06/2022	8.45	12/06/2022	N/A				
2	62.42	12/13/2022	8.10	12/13/2022	N/A				
3	63.14	12/20/2022	8.15	12/20/2022	N/A				
4	60.62	12/27/2022	8.23	12/27/2022	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 10/03/2022
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	693.000	mg/l
Chloride	512.000	mg/l
Conductivity	7.030	Mmhos
Gross Alpha	119.000	pCi/l
Magnesium	386.000	mg/l
Selenium	0.034	mg/l
Sodium	608.000	mg/l
Sulfate	2,500.000	mg/l
Total Alkalinity as CaCO3	1,100.000	mg/l
Total Dissolved Solids	5,280.000	mg/l
Total Suspended Solids	ND	mg/l
Uranium	0.170	mg/l