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

Submitted 01/13/2022 **Approved** 01/25/2022 **KOLAR Document ID** 1607087

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 27

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	1,295	1.25	140	128	-14.7	-5.5	
Monthly Maximum	1,929	2.02	150	144	2.0	-0.2	
Monthly Minimum	0	0.00	130	120	-24.0	-7.7	
Monthly Total	38,857						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
144.00	123.00	8.00	-12.00

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	07:04	1,833.33	1.90	140	124.0	-24	-7.7	31			JS		
2	07:02	1,857.14	1.90	140	124.0	-24	-7.7	31			JS		
3	08:45	1,833.33	1.93	140	124.0	-24	-7.7	31			DW		
4	08:36	1,785.71	1.86	140	124.0	-24	-7.7	31			TL		
5	08:37	1,785.71	1.90	140	124.0	-24	-7.7	31			DW		
6	08:41	1,928.57	2.00	140	125.0	-24	-7.7	31			TL		
7	08:42	1,904.76	2.00	140	124.0	-24	-7.7	31			DW		
8	08:09	1,928.57	2.00	140	124.0	-24	-7.7	31			TL		
9	08:30	1,928.57	2.02	140	129.0	-24	-7.7	31			TL		
10	08:36	1,880.95	1.98	140	128.0	-24	-7.7	31			DW		
11	08:42	1,809.52	1.90	140	128.0	-24	-7.7	31			TL		
12	08:48	1,261.90	1.93	140	132.0	-24	-7.7	31			DW		
13	08:28	1,785.71	1.86	140	126.0	-24	-7.7	31			TL		
14	08:46	1,404.76	1.95	140	131.0	-24	-7.7	31			TL		
15	08:49	1,285.71	1.90	140	134.0	-24	-7.7	31			MM		
16	08:46	1,357.14	1.95	140	129.0	-24	-7.7	31			MM		
17	08:55	976.19	0.00	150	144.0	2	-0.3	31			DW		
18	08:33	571.43	1.86	140	126.0	-22	-7.7	31			TL		
19	08:48	1,333.33	1.95	130	120.0	-22	-7.7	31			DW		
20	08:41	1,047.62	0.00	140	132.0	2	-0.2	31			DW		
21	08:50	1,547.62	0.00	140	129.0	2	-0.2	31			DW		
22	08:27		0.00	140	128.0	0	-7.7	31			SH		
23	08:07	571.43	0.00	140	128.0	2	-7.7	31			SH		
24	08:41	1,261.90	0.00	140	127.0	0	-0.2	31			TL		
25	08:43	928.57	1.93	140	128.0	-22	-7.7	31			DW		
26	08:35	904.76	0.00	140	127.0	0	-0.2	31			TL		
27	08:45	976.19	0.00	140	127.0	2	-0.2	31			DW		
28	09:01	1,166.67	1.90	140	123.0	-22	-7.7	31			DW		
29	08:57	0.00	0.00	140	135.0	2	-0.2	31			DW		
30	08:11	0.00	0.00	140	130.0	2	-0.2	31			DW		
31	06:52	0.00	0.00	130	123.0	2	-0.3	31			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	61.16	05/04/2021	7.92	05/04/2021	N/A				
2	60.62	05/11/2021	7.96	05/11/2021	N/A				
3	61.70	05/18/2021	7.66	05/18/2021	N/A				
4	68.54	05/25/2021	7.75	05/25/2021	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 2
Date Sample Collected 05/11/2021
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	644.000	mg/l
Chloride	270.000	mg/l
Conductivity	7.000	Mmhos
Gross Alpha	68.800	pCi/l
Magnesium	348.000	mg/l
Selenium	0.042	mg/l
Sodium	685.000	mg/l
Sulfate	3,600.000	mg/l
Total Alkalinity as CaCO3	1,000.000	mg/l
Total Dissolved Solids	6,260.000	mg/l
Total Suspended Solids		mg/l
Uranium	0.180	mg/l