Facility Well Name Lakin #1 **UIC Permit #** KS-05-093-002 **Month** May **Year** 2023

Submitted 06/01/2023 **Approved** 06/02/2023 **KOLAR Document ID** 1716001

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	1,478	1.85	153	141	-7.6	-4.1	
Monthly Maximum	2,667	4.14	190	181	4.0	-0.3	
Monthly Minimum	714	0.00	140	121	-26.0	-7.7	
Monthly Total	45,833						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
181.0	121.0	-0.3	-7.7

Comments:

Lakin #1 05/2023

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	08:38	1,309.52	0.00	190	181.0	0	-0.3	31			DW		
2	08:08	1,857.14	3.74	170	154.0	-18	-7.7	31			TL		
3	08:26	1,976.19	3.71	160	144.0	-18	-7.7	31			DW		
4	08:06	1,333.33	0.00	160	146.0	3	-0.9	31			TL		
5	08:32	2,261.90	3.67	140	128.0	-18	-7.7	31			DW		
6	07:51	2,095.24	0.00	150	139.0	3	-0.8	31			TL		
7	07:08	2,666.67	3.67	140	121.0	-18	-7.7	31			TL		
8	08:13	2,047.62	3.69	140	124.0	-18	-7.7	31			TL		
9	08:41	2,000.00	3.67	150	141.0	-20	-7.7	31			DW		
10	08:13	1,833.33	4.14	150	132.0	-26	-7.7	31			TL		
11	08:32	1,619.05	0.00	150	141.0	2	-0.6	31			DW		
12	08:10	1,571.43	4.10	150	134.0	-18	-7.7	32			TL		
13	07:52	1,690.48	0.00	151	142.0	4	-0.9	32			JC		
14	08:29	1,523.81	4.07	150	172.0	-18	-7.7	32			JC		
15	08:23	1,571.43	0.00	160	145.0	4	-1.0	31			DW		
16	08:26	761.90	4.14	150	133.0	-18	-7.7	32			TL		
17	08:36	2,285.71	0.00	150	140.0	4	-0.7	31			DW		
18	08:26	1,571.43	0.00	160	143.0	3	-0.7	32			TL		
19	08:27	928.57	3.93	150	135.0	-18	-7.7	32			TL		
20	08:55	1,595.24	0.00	160	145.0	4	-0.8	32			MM		
21	08:49	785.71	0.00	160	145.0	3	-0.8	32			MM		
22	08:53	1,285.71	3.88	140	132.0	-18	-7.7	31			DW		
23	08:40	1,119.05	0.00	160	145.0	4	-0.7	31			DW		
24	08:33	761.90	0.00	160	146.0	3	-0.7	32			TL		
25	08:42	785.71	3.67	140	134.0	-18	-7.7	31			DW		
26	08:15	1,285.71	0.00	150	142.0	3	-0.7	32			TL		
27	08:51	714.29	3.69	150	133.0	-20	-7.7	32			SH		
28	08:49	1,119.05	0.00	150	139.0	3	-0.6	32			SH		
29	06:45	1,571.43	0.00	150	144.0	3	-0.7	32			SH		
30	08:11	785.71	0.00	150	143.0	2	-0.6	32			TL		
31	08:26	1,119.05	3.67	150	137.0	-20	-7.7	32			TL		

Lakin #1 05/2023

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	60.62	05/02/2023	7.88	05/02/2023	N/A				
2	63.68	05/09/2023	7.55	05/09/2023	N/A				
3	62.42	05/16/2023	8.14	05/16/2023	N/A				
4	64.04	05/23/2023	8.16	05/23/2023	N/A				
5	63.32	05/30/2023	8.05	05/30/2023	N/A				

No monthly injectate samples required.

Lakin #1 05/2023

Quarterly Injectate Samples

Quarter 2
Date Sample Collected 04/10/2023
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	650.000	mg/l
Chloride	370.000	mg/l
Conductivity	5.670	Mmhos
Gross Alpha	55.200	pCi/l
Magnesium	316.000	mg/l
Selenium	0.033	mg/l
Sodium	570.000	mg/l
Sulfate	730.000	mg/l
Total Alkalinity as CaCO3	780.000	mg/l
Total Dissolved Solids	4,790.000	mg/l
Total Suspended Solids	12.000	mg/l
Uranium	140.000	mg/l