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

Submitted 03/03/2021 **Approved** 03/17/2021 **KOLAR Document ID** 1562710

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 7,143

			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	755	0.61	129	121	-16.1	-4.0	
Monthly Maximum	1,571	1.90	140	132	2.0	8.0	
Monthly Minimum	214	0.00	120	111	-30.0	-12.0	
Monthly Total	23,405						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
132.00	111.00	8.00	-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	08:46	285.71	0.00	140	131.0	-4	-0.2	31			TL		
2	08:55	619.05	0.67	120	111.0	-30	-7.7	31			TL		
3	08:50	666.67	0.57	120	113.0	-30	-7.7	31			TL		
4	08:41	1,309.52	0.88	120	113.0	-30	-7.7	31			DW		
5	08:41	523.81	0.74	130	121.0	-6	-1.9	31			DW		
6	08:28	1,095.24	1.67	120	112.0	-28	-12.0	31			TL		
7	08:43	333.33	0.00	140	131.0	-4	-0.1	31			DW		
8	08:42	1,119.05	1.71	120	112.0	-30	-7.7	31			TL		
9	08:13	214.29	0.00	140	132.0	-20	-0.1	31			SH		
10	08:34	595.24	0.50	120	112.0	-30	-7.7	31			SH		
11	08:45	1,238.10	0.64	120	111.0	-30	-7.7	31			DW		
12	08:33	476.19	1.90	140	130.0	-30	-7.7	31			TL		
13	07:47	500.00	0.00	130	124.0	2	-0.3	31			DW		
14	08:40	1,071.43	0.55	120	114.0	-26	-7.7	31			TL		
15	08:38	380.95	0.00	130	125.0	2	-0.4	31			DW		
16	08:50	595.24	0.67	130	115.0	-22	-7.7	31			MM		
17	08:40	666.67	0.67	130	120.0	-22	-7.7	31			MM		
18	08:37	1,309.52	1.74	130	119.0	-22	-7.7	31			DW		
19	08:02	500.00	0.00	130	124.0	-4	-0.1	31			TL		
20	07:49	1,190.48	0.79	120	113.0	-30	-7.7	31			DW		
21	08:25	1,571.43	1.74	120	113.0	-30	-7.7	31			TL		
22	08:44	309.52	0.00	130	127.0	-2	-0.1	31			DW		
23	08:57	547.62	0.00	120	116.0	-2	-0.1	31			DW		
24	08:05	1,071.43	0.00	140	130.0	-2	-0.2	31			DW		
25	08:31	285.71	0.00	130	126.0	-4	8.0	31			TL		
26	08:45	1,119.05	1.83	140	127.0	-28	-7.7	31			DW		
27	08:46	476.19	0.00	130	122.0	-2	-0.3	31			TL		
28	09:01	1,190.48	1.76	120	113.0	-28	-7.7	31			DW		
29	08:39	690.48	0.00	140	132.0	-2	-0.1	31			TL		
30	07:56	761.90	0.00	140	128.0	-2	-0.1	31			RV		
31	07:53	690.48	0.00	135	126.0	-2	-0.1	31			RV		

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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	59.90	01/05/2021	8.11	01/05/2021	N/A				
2	56.66	01/12/2021	8.17	01/12/2021	N/A				
3	55.94	01/20/2021	7.34	01/20/2021	N/A				
4	52.16	01/26/2021	7.61	01/26/2021	N/A				
5					N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 01/04/2021
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	599.000	mg/l
Chloride	350.000	mg/l
Conductivity	5.840	Mmhos
Magnesium	330.000	mg/l
Selenium	0.037	mg/l
Sodium	554.000	mg/l
Sulfate	2,800.000	mg/l
Total Alkalinity as CaCO3	1,100.000	mg/l
Total Dissolved Solids	5,240.000	mg/l
Total Suspended Solids	5.000	mg/l