Facility Well Name Lakin #1 **UIC Permit #** KS-05-093-002 **Month** September **Year** 2020

Submitted 10/02/2020 **Approved** 10/05/2020 **KOLAR Document ID** 1531930

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 7,143

	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Annulus Pressure psig min 60 Gauge psig	Annulus Pressure Cont. Record psig	Injection Pressure Gauge psig	Injection Pressure Cont. Record psig	Amount Added to Seal Pot
Monthly Average	2,943	1.84	139	127	-21.8	-6.2	
Monthly Maximum	45,619	2.67	150	139	2.0	0.0	
Monthly Minimum	714	0.00	130	121	-28.0	-7.7	
Monthly Total	91,238						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
139.00	121.00	0.00	-7.70

Comments:

Still working to correct continuous recorder.

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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	08:48	1,190.48	1.95	130	121.0	-26	-7.7	32			DW		
2	08:45	1,666.67	2.29	130	121.0	-26	-7.7	32			TL		
3	07:34	1,666.67	2.02	130	124.0	-26	-7.7	32			DW		
4	08:48	2,095.24	2.19	140	125.0	-26	-7.7	32			DW		
5	06:54	1,952.38	2.21	140	123.0	-26	-7.7	32			SH		
6	08:27	714.29	1.43	140	122.0	-28	-0.1	32			SH		
7	08:34	2,190.48	2.43	140	123.0	-28	-7.7	32			SH		
8	08:44	1,785.71	2.29	140	125.0	-26	-7.7	32			TL		
9	08:51	1,095.24	1.95	140	127.0	-22	-7.7	32			DW		
10	08:37	904.76	0.00	150	139.0	2	0.0	32			TL		
11	08:37	976.19	2.12	140	129.0	-24	-7.7	32			DW		
12	08:38	880.95	0.00	140	135.0	0	-0.3	32			MM		
13	08:22	1,238.10	0.00	140	136.0	0	-0.3	32			MM		
14	08:39	1,166.67	0.00	140	135.0	0	-0.3	32			TL		
15	08:41	1,142.86	2.21	150	137.0	-24	-0.5	32			DW		
16	08:34	1,666.67	2.12	130	125.0	-26	-7.7	32			TL		
17	08:30	1,357.14	2.10	140	126.0	-26	-7.7	32			DW		
18	08:22	1,476.19	2.57	140	126.0	-24	-7.7	32			TL		
19	07:38	1,857.14	2.12	140	126.0	-24	-7.7	32			DW		
20	08:25	1,476.19	2.67	140	125.0	-26	-7.7	32			DW		
21	08:37	1,500.00	2.21	130	125.0	-26	-7.7	32			TL		
22	08:46	1,809.52	1.81	140	135.0	-24	-7.7	32			TL		
23	08:45	1,761.90	2.14	140	126.0	-26	-7.7	32			TL		
24	08:28	2,095.24	2.14	140	125.0	-26	-7.7	32			DW		
25	08:36	2,119.05	2.24	140	125.0	-24	-7.7	32			DW		
26	06:45	2,119.05	2.19	135	124.0	-25	-7.7	32			RV		
27	07:19	1,142.86	2.19	135	125.0	-25	-7.7	32			RV		
28	08:48	1,214.29	1.76	140	126.0	-24	-7.7	32			DW		
29	08:49	1,523.81	1.74	140	127.0	-24	-7.7	32			DW		
30	08:41	1,833.33	2.00	140	126.0	-24	-7.7	32			DW		
31		45,619.05											

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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	69.62	09/01/2020	7.92	09/01/2020	N/A				
2	61.52	09/09/2020	7.99	09/09/2020	N/A				
3	67.10	09/15/2020	7.98	09/15/2020	N/A				
4	66.74	09/22/2020	7.97	09/22/2020	N/A				
5	56.66	09/29/2020	7.63	09/29/2020	N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 07/14/2020
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	745.000	mg/l
Chloride	550.000	mg/l
Conductivity	7.730	Mmhos
Gross Alpha	66.000	pCi/l
Magnesium	430.000	mg/l
Selenium	0.045	mg/l
Sodium	738.000	mg/l
Sulfate	3,600.000	mg/l
Total Alkalinity as CaCO3	1,300.000	mg/l (as CaCO3)
Total Dissolved Solids	6,680.000	mg/l
Total Suspended Solids	5.000	mg/l
Uranium	0.202	mg/l