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

Submitted 07/07/2020 **Approved** 07/07/2020 **KOLAR Document ID** 1522695

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	1,004	0.62	144	135	-10.4	-2.8	
Monthly Maximum	2,119	2.29	160	148	-2.0	-0.1	
Monthly Minimum	333	0.00	130	123	-29.0	-7.7	
Monthly Total	31,119						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
148.00	123.00	-0.10	-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	07:19	333.33	0.00	150	142.0	-2	-0.1	30			RV		
2	08:24	952.38	2.07	130	123.0	-28	-7.7	30			DW		
3	08:34	1,095.24	2.10	130	124.0	-28	-7.7	30			DW		
4	08:28	1,238.10	0.00	150	144.0	-2	-0.1	30			DW		
5	08:35	357.14	0.00	160	148.0	-2	-0.1	30			DW		
6	08:38	857.14	0.00	130	125.0	-2	-7.4	30			DW		
7	07:20	952.38	2.29	140	126.0	-29	-7.7	30			JS		
8	07:20	1,214.29	0.00	150	145.0	-2	-0.1	30			JS		
9	07:29	642.86	0.00	150	142.0	-2	-0.1	30			TL		
10	08:34	1,047.62		150	136.0	-2	-0.1	31			TL		
11	08:33	1,738.10	2.05	130	125.0	-28	-7.7	31			TL		
12	08:27	785.71	0.00	140	135.0	-2	-0.1	31			TL		
13	08:40	857.14		130	126.0	-2	-0.1	31			TL		
14	07:37	1,071.43	0.00	160	142.0	-2	-0.1	31			SH		
15	09:08	809.52	0.00	160	148.0	-2	-0.1	31			SH		
16	08:36	380.95	0.00	150	142.0	-2	-0.1	31			TL		
17	08:39	1,000.00	0.00	130	124.0	-28	-7.7	31			TL		
18	08:28	1,047.62	2.14	130	123.0	-28	-7.7	31			TL		
19	08:47	1,190.48	0.00	150	146.0	-2	-0.1	31			TL		
20	08:29	380.95	0.00	150	143.0	-2	-0.1	31			TL		
21	08:40	1,571.43	2.02	130	123.0	-28	-7.7	31			TL		
22	08:41	833.33	0.00	150	143.0	-2	-0.1	31			TL		
23	08:36	1,214.29	0.00	150	136.0	-2	-0.1	31			TL		
24	08:36	476.19	0.00	160	141.0	-2	-0.1	31			TL		
25	08:35	1,380.95	0.00	140	126.0	-2	-0.1	31			DW		
26	08:31	2,119.05	2.05	130	124.0	-28	-7.7	31			TL		
27	08:36	809.52	0.00	150	141.0	-2	-0.1	31			TL		
28	07:38	1,095.24	1.98	140	125.0	-28	-7.7	31			MM		
29	08:27	1,380.95	0.00	150	143.0	-2	-0.1	31			MM		
30	08:36	547.62	0.00	150	138.0	-2	-0.1	31			DW		
31	08:55	1,738.10	1.40	130	124.0	-28	-7.7	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	57.74	03/03/2020	7.86	03/03/2020	N/A				
2	59.18	03/10/2020	8.06	03/10/2020	N/A				
3	58.46	03/17/2020	8.02	03/17/2020	N/A				
4	59.18	03/25/2020	7.70	03/25/2020	N/A				
5	61.52	03/31/2020	7.91	03/31/2020	N/A				

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 02/04/2020
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	565.000	mg/l
Chloride	280.000	mg/l
Conductivity	5.28000	mmho/cm
Gross Alpha	38.000	pCi/l
Magnesium	317.000	mg/l
Selenium	0.045	mg/l
Sulfate	790.000	mg/l
Total Alkalinity as CaCO3	800.000	mg/l (as CaCO3)
Total Dissolved Solids	5,430.000	mg/l
Total Suspended Solids	10.000	mg/l
Uranium	0.150	mg/l