Facility Well Name Lakin #1 **UIC Permit #** KS-05-093-002 **Month** March **Year** 2019

Submitted 08/22/2019 **Approved** 09/01/2019 **KOLAR Document ID** 1458196

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 28

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	883	1.07	196	187	-13.4	-2.1	
Monthly Maximum	1,548	2.29	210	202	0.0	8.0	
Monthly Minimum	0	0.00	170	157	-26.0	-12.0	
Monthly Total	27,381						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
163.84	151.88	5.61	-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	09:48	1,119.05	0.00	200	193.0	0	8.0	17			DW		
2	07:08	714.29	0.00	200	183.0	0	8.0	17			NH		
3	08:20	1,452.38	2.12	200	181.0	-26	-12.0	17			NH		
4	08:39	1,238.10	1.93	180	177.0	-26	-12.0	17			DW		
5	08:45	1,357.14	0.00	180	169.0	0	8.0	17			DW		
6	08:28	1,404.76	0.00	170	157.0	0	8.0	17			DW		
7	08:35	1,333.33	0.00	190	186.0	0	8.0	17			DW		
8	08:52	1,357.14	1.93	190	186.0	-26	-11.0	17			NH		
9	08:15	1,428.57	0.00	200	195.0	0	8.0	17			DW		
10	08:44	214.29	0.00	190	186.0	0	8.0	17			DW		
11	08:44	1,071.43	1.95	200	190.0	-26	-12.0	17			NH		
12	08:45	1,071.43	2.24	200	182.0	-26	-12.0	17			NH		
13	08:20	904.76	2.00	200	192.0	-26	-11.0	17			NH		
14	08:36	928.57	2.19	200	192.0	-26	-11.0	17			NH		
15	07:24	904.76	2.19	200	192.0	-26	-12.0	17			NH		
16	07:50	1,547.62	2.07	200	188.0	-26	-12.0	17			SH		
17	09:07	571.43	0.00	200	199.0	0	8.0	17			SH		
18	08:26	880.95	0.00	200	197.0	0	8.0	17			DW		
19	08:43	857.14	0.00	200	188.0	0	8.0	17			DW		
20	08:36	690.48	1.90	200	186.0	-26	-12.0	17			DW		
21	08:37	738.10	2.10	200	186.0	-26	-12.0	17			DW		
22	08:42	738.10	1.93	190	185.0	-26	-11.0	17			DW		
23	08:13	738.10	2.21	200	186.0	-26	-11.0	17			NH		
24	08:38	738.10	2.29	200	186.0	-26	-11.0	17			NH		
25	08:46	1,119.05	1.98	200	186.0	-26	-12.0	17			DW		
26	07:56	690.48	0.00	200	198.0	0	8.0	17			NH		
27	08:00	357.14	0.00	200	198.0	0	8.0	17			NH		
28	08:21	1,214.29	2.24	200	191.0	-26	-11.0	17			NH		
29	08:38	0.00	0.00	210	202.0	0	8.0	17			DW		
30	06:32	0.00	0.00	200	193.0	0	8.0	17			DW		
31	07:48	0.00	0.00	190	181.0	0	8.0	17			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	56.66	03/05/2019	7.82	03/05/2019	N/A				
2	56.48	03/12/2019	7.93	03/12/2019	N/A				
3	60.44	03/19/2019	7.74	03/19/2019	N/A				
4	54.68	03/26/2019	7.88	03/26/2019	N/A				
5					N/A				

No monthly injectate samples required.