Facility Well Name Compass #3 **UIC Permit #** KS-01-159-005 **Month** August **Year** 2019

Submitted 09/17/2019 **Approved** 09/18/2019 **KOLAR Document ID** 1472151

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 20,571

			Annulus Pressure psig min 50		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	13,941	9.77	73	70	-17.0	-18.3	
Monthly Maximum	14,245	9.90	86	86	-17.0	-18.0	
Monthly Minimum	10,544	9.57	69	66	-17.0	-18.5	
Monthly Total	432,184						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
88.40	65.40	-17.70	31.10

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	Conductivity Mmhos	
1	08:18	10,544.00	9.83	71	67.8	-17	-18.2	7			BW	2,467.00	
2	08:20	14,099.48	9.83	71	67.2	-17	-18.2	7			BW	2,478.00	
3	09:48	14,136.12	9.79	70	66.8	-17	-18.2	7			BW	2,467.00	
4	08:56	14,129.26	9.90	70	66.8	-17	-18.0	7			BW	2,477.00	
5	07:07	14,244.93	9.81	71	67.1	-17	-18.0	7			BW	2,467.00	
6	07:07	14,238.10	9.64	71	67.1	-17	-18.3	7			BW	2,459.00	
7	08:35	14,023.93	9.90	70	67.0	-17	-18.2	7			KB	2,475.00	
8	12:56	14,069.02	9.83	70	66.7	-17	-18.3	7			KB	2,461.00	
9	08:00	14,025.98	9.71	70	66.5	-17	-18.4	7			KB	2,473.00	
10	07:24	14,017.10	9.74	70	66.7	-17	-18.3	7			KB	2,479.00	
11	08:42	14,025.98	9.69	70	66.7	-17	-18.3	7			KB	2,482.00	
12	07:30	14,110.29	9.67	70	67.3	-17	-18.2	7			KB	2,486.00	
13	06:52	13,914.81	9.86	70	67.1	-17	-18.4	7			DE	2,469.00	
14	13:38	14,004.02	9.76	70	67.4	-17	-18.4	7			BW	2,485.00	
15	08:30	14,023.21	9.83	69	66.3	-17	-18.5	7			BW	2,486.00	
16	10:47	13,979.52	9.69	69	66.4	-17	-18.4	7			BW	2,501.00	
17	08:59	13,976.83	9.57	69	66.6	-17	-18.3	7			BW	2,485.00	
18	10:38	13,945.98	9.71	69	66.3	-17	-18.2	7			BW	2,491.00	
19	07:48	14,038.24	9.83	69	66.7	-17	-18.3	7			BW	2,473.00	
20	09:07	14,084.45	9.79	70	67.2	-17	-18.2	7			BW	2,473.00	
21	08:22	14,082.95	9.81	71	67.0	-17	-18.3	7			KB	2,473.00	
22	09:12	14,059.45	9.83	70	66.1	-17	-18.2	7			KB	2,484.00	
23	06:47	14,058.48	9.74	70	66.1	-17	-18.3	7			KB	2,477.00	
24	11:25	14,069.52	9.69	69	66.0	-17	-18.4	7			KB	2,484.00	
25	08:22	14,019.79	9.74	69	65.6	-17	-18.2	7			KB	2,503.00	
26	07:32	14,034.95	9.74	84	86.0	-17	-18.1	7			KB	2,499.00	
27	07:54	14,047.29	9.79	86	83.1	-17	-18.3	7			KB	2,487.00	
28	15:45	14,048.00	9.69	86	84.0	-17	-18.3	7			BW	2,515.00	
29	10:30	14,049.52	9.71	86	83.6	-17	-18.2	7			BW	2,476.00	
30	09:59	14,040.36	9.69	86	83.1	-17	-18.4	7			BW	2,487.00	
31	11:03	14,042.55	9.90	86	82.6	-17	-18.4	7			BW	2,464.00	

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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	58.60	08/04/2019	7.20	08/04/2019	629.0	08/04/2019	08/04/2019		
2	60.00	08/12/2019	7.20	08/12/2019	627.0	08/12/2019	08/12/2019		
3	59.80	08/18/2019	7.30	08/18/2019	639.0	08/18/2019	08/18/2019		
4	60.90	08/26/2019	7.20	08/26/2019	645.0	08/26/2019	08/26/2019		
5									

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 07/02/2019
Kansas Lab Certificate Number E-10152
Lab Name SDK Laboratories (Hutchinson)

These samples shall be representative of injection activity and shall therefore be collected on days of injection.

Constituent	Value	Units
Calcium	111.000	mg/l
Iron	<0.010	mg/l
Magnesium	14.200	mg/l
Sulfate	128.000	mg/l
Total Alkalinity as CaCO3	308.000	mg/l
Total Dissolved Solids	1,510.000	mg/l
Total Hardness as CaCO3	336.000	mg/l