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

Submitted 01/03/2020 **Approved** 01/09/2020 **KOLAR Document ID** 1486879

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	13,834	9.68	82	79	-17.0	-18.5	
Monthly Maximum	14,356	9.90	84	82	-17.0	-17.7	
Monthly Minimum	10,398	9.52	78	76	-17.0	-19.2	
Monthly Total	428,853						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
82.60	75.40	-17.50	-19.30

Comments:

Compass #3 11/2019

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	11:40	10,397.86	9.62	82	78.8	-17	-18.8	7			KB	2,535.00	
2	08:51	13,784.43	9.52	82	78.6	-17	-19.0	7			KB	2,511.00	
3	08:32	14,356.10	9.62	82	79.4	-17	-18.7	7			KB	2,520.00	
4	10:43	13,880.14	9.55	82	79.4	-17	-18.8	7			BW	2,544.00	
5	06:52	13,583.83	9.60	82	79.4	-17	-19.0	7			BW	2,519.00	
6	08:56	13,810.74	9.69	82	80.0	-17	-18.8	7			BW	2,526.00	
7	10:19	13,754.81	9.62	81	76.6	-17	-19.2	7			BW	2,535.00	
8	09:47	13,782.48	9.74	81	78.1	-17	-19.0	7			BW	2,545.00	
9	04:53	13,792.07	9.60	82	79.1	-17	-18.7	7			BW	2,548.00	
10	10:31	13,787.57	9.79	82	80.1	-17	-18.2	7			BW	2,528.00	
11	08:41	14,023.62	9.81	78	75.8	-17	-18.7	7			BW	2,533.00	
12	09:19	13,988.02	9.67	78	75.8	-17	-18.8	7			BW	2,532.00	
13	06:53	14,016.33	9.69	78	77.8	-17	-18.1	7			BW	2,503.00	
14	06:49	14,015.12	9.67	82	78.8	-17	-18.5	7			BW	2,518.00	
15	08:47	13,951.95	9.76	82	78.6	-17	-18.5	7			BW	2,524.00	
16	07:56	14,119.10	9.76	83	79.8	-17	-18.3	7			KB	2,527.00	
17	09:43	14,029.00	9.81	83	80.5	-17	-18.3	7			KB	2,524.00	
18	08:40	14,067.86	9.74	83	80.6	-17	-18.0	7			KB	2,518.00	
19	09:35	14,012.43	9.90	83	80.2	-17	-18.2	7			KB	2,518.00	
20	09:49	14,030.26	9.71	84	81.5	-17	-17.9	7			KB	2,553.00	
21	10:38	13,999.81	9.67	83	79.5	-17	-18.3	7			KB	2,560.00	
22	10:05	14,011.57	9.52	81	77.3	-17	-18.5	7			KB	2,530.00	
23	08:53	13,984.95	9.55	82	78.5	-17	-18.2	7			KB	2,541.00	
24	08:00	13,991.14	9.71	82	78.9	-17	-18.1	7			KB	2,555.00	
25	10:03	13,995.07	9.71	82	78.9	-17	-18.0	7			KB	2,539.00	
26	08:40	13,972.00	9.67	82	78.0	-17	-17.7	7			KB	2,532.00	
27	10:37	13,982.93	9.69	81	78.0	-17	-18.5	7			KB	2,528.00	
28	07:31	13,998.64	9.64	82	78.4	-17	-18.6	7			KB	2,528.00	
29	09:52	14,009.21	9.71	83	79.2	-17	-18.3	7			KB	2,530.00	
30	07:23	13,995.79	9.69	83	80.0	-17	-17.8	7			KB	2,527.00	
31	08:40	13,728.05	9.60	80	77.5	-17	-18.9	7			KB	2,523.00	

Compass #3 11/2019

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	59.00	11/03/2019	7.26	11/03/2019	726.0	11/03/2019	11/03/2019		
2	58.10	11/10/2019	7.03	11/10/2019	703.0	11/10/2019	11/10/2019		
3	60.60	11/18/2019	7.22	11/18/2019	696.0	11/18/2019	11/18/2019		
4	58.10	11/26/2019	7.33	11/26/2019	692.0	11/26/2019	11/26/2019		
5									

No monthly injectate samples required.

Compass #3 11/2019

Quarterly Injectate Samples

Quarter 4
Date Sample Collected 10/01/2019
Kansas Lab Certificate Number E-10116
Lab Name Pace Analytical-Lenexa

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

Constituent	Value	Units
Calcium	106.000	mg/l
Iron	<0.050	mg/l
Magnesium	12.800	mg/l
Sulfate	120.000	mg/l
Total Alkalinity as CaCO3	313.000	mg/l
Total Dissolved Solids	1,540.000	mg/l
Total Hardness as CaCO3	316.000	mg/l