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

Submitted 03/19/2019 **Approved** 05/03/2019 **KOLAR Document ID** 1453904

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

Barrels per Day Maximum: 20,571

	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Annulus Pressure psig min 50 Gauge psig	Annulus Pressure Cont. Record psig	Injection Pressure Gauge psig	Injection Pressure Cont. Record psig	Amount Added to Seal Pot
Monthly Average	13,241	9.15	77	74	-19.1	-18.6	
Monthly Maximum	14,249	9.98	82	78	-18.0	-18.0	
Monthly Minimum	0	0.00	72	69	-27.0	-27.0	
Monthly Total	410,467						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
79.00	69.00	1.00	-31.00

Comments:

Jan 27th and Jan 28th F disposal well was down for maintenance. The well was brought back up at 11:00 am on Jan 28th. During startup there as a spike in injection pressure.

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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	09:12	10,413.07	9.79	77	74.0	-18	-18.0	7			KB		
2	11:02	14,046.07	9.74	78	76.0	-18	-18.0	7			BW		
3	08:24	14,147.55	9.90	78	76.0	-19	-18.0	7			BW		
4	07:34	14,182.93	9.76	79	77.0	-19	-18.0	7			BW		
5	07:09	14,198.88	9.76	80	77.0	-19	-18.0	7			BW		
6	12:01	14,193.33	9.95	82	78.0	-19	-18.0	7			BW		
7	09:15	14,182.55	9.86	82	78.0	-19	-18.0	7			BW		
8	07:44	14,207.36	9.81	81	77.0	-19	-18.0	7			BW		
9	07:14	14,249.24	9.86	79	76.0	-18	-18.0	7			KB		
10	09:20	14,209.10	9.74	79	76.0	-18	-18.0	7			KB		
11	08:29	14,217.83	9.76	79	76.0	-18	-18.0	7			KB		
12	08:23	14,154.21	9.67	77	74.0	-18	-18.0	7			KB		
13	09:36	14,094.98	9.86	76	74.0	-18	-18.0	7			KB		
14	07:51	14,150.88	9.83	78	75.0	-18	-18.0	7			KB		
15	08:48	14,199.83	9.83	78	75.0	-18	-18.0	7			KB		
16	10:09	14,133.55	9.62	77	74.0	-19	-18.0	7			BW		
17	07:41	14,091.12	9.71	77	74.0	-19	-18.0	7			BW		
18	08:29	14,147.48	9.98	78	75.0	-19	-18.0	7			BW		
19	09:00	14,077.88	9.79	73	71.0	-19	-18.0	7			BW		
20	09:24	14,074.95	9.83	74	72.0	-19	-18.0	7			BW		
21	09:49	14,088.74	9.71	76	74.0	-19	-18.0	7			BW		
22	08:52	14,105.98	9.98	75	73.0	-19	-18.0	7			BW		
23	08:55	14,065.93	9.79	75	72.0	-18	-18.0	7			KB		
24	09:15	14,113.50	9.62	75	72.0	-18	-18.0	7			KB		
25	06:12	14,128.88	9.71	75	72.0	-18	-18.0	7			KB		
26	08:00	14,174.98	9.86	75	73.0	-18	-18.0	7			KB		
27	07:40	6,929.57	0.00	79	76.0	-27	-27.0	9			KB		
28	06:45	0.00	0.00	79	76.0	-27	-27.0	9			KB		
29	07:15	11,661.81	9.52	74	72.0	-18	-18.0	8			KB		
30	08:11	13,911.38	9.71	72	69.0	-19	-18.0	7			BW		
31	08:20	13,913.05	9.57	74	71.0	-19	-18.0	7			BW		

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	58.40	01/06/2019	7.21	01/06/2019	673.0	01/06/2019	01/06/2019		
2	59.00	01/14/2019	7.21	01/14/2019	679.0	01/14/2019	01/14/2019		
3	57.50	01/20/2019	7.35	01/20/2019	664.0	01/20/2019	01/20/2019		
4	57.50	01/28/2019	7.50	01/28/2019	718.0	01/28/2019	01/28/2019		
5									

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 01/03/2019
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	124.000	mg/l
Iron	<0.010	mg/l
Magnesium	15.800	mg/l
Sulfate	134.000	mg/l
Total Dissolved Solids	1,660.000	mg/l
Total Alkalinity as CaCO3	314.000	mg/l (as CaCO3)
Total Hardness as CaCO3	375.000	mg/l (as CaCO3)