Facility Well Name Pioneer #3 **UIC Permit #** KS-01-077-002 **Month** March **Year** 2019

Submitted 04/30/2019 **Approved** 05/01/2019 **KOLAR Document ID** 1458937

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

Barrels per Day Maximum: 1,000

			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	143	0.10	82	82	-25.0	-24.6	300
Monthly Maximum	272	0.19	91	92	-12.0	-11.7	300
Monthly Minimum	0	0.00	75	75	-28.0	-27.8	300
Monthly Total	4,435						300

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
104.94	67.82	-0.22	-28.09

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	14:00	59.33	0.05	80	80.2	-27	-26.4	6			MB		
2	14:00	80.14	0.05	80	80.2	-28	-27.4	6			MB		
3	14:00	118.24	0.07	76	75.4	-13	-12.1	6			MB		
4	14:00	21.12	0.02	76	76.2	-12	-11.7	6			MB		
5	14:00	12.60	0.00	77	77.1	-14	-13.2	6			KS		
6	14:00	0.00	0.00	79	79.2	-14	-13.0	6			KS		
7	14:00	272.02	0.19	91	90.9	-28	-27.3	6			KS		
8	14:00	200.79	0.14	80	80.1	-28	-27.3	21	diesel	300	KS		
9	14:00	144.86	0.10	80	79.8	-27	-27.3	21			KS		
10	14:00	97.52	0.07	78	77.6	-28	-27.8	21			KS		
11	14:00	230.81	0.17	83	83.5	-28	-27.8	21			KS		
12	14:00	226.81	0.17	85	85.1	-28	-27.3	21			SA		
13	14:00	63.64	0.05	90	91.7	-27	-26.3	21			SA		
14	14:00	75.21	0.05	86	86.3	-28	-27.3	21			SA		
15	14:00	109.86	0.07	84	84.1	-16	-14.4	21			SA		
16	14:00	183.24	0.12	82	82.3	-27	-27.8	21			SA		
17	14:00	197.93	0.14	86	86.0	-28	-27.7	21			SA		
18	14:00	170.36	0.12	86	86.2	-27	-27.8	21			SA		
19	14:00	214.10	0.14	85	85.3	-28	-27.5	21			MB		
20	14:00	147.43	0.10	89	89.6	-28	-27.5	21			MB		
21	14:00	130.69	0.10	79	79.4	-27	-27.7	20			MB		
22	14:00	230.60	0.17	78	77.5	-27	-27.6	20			MB		
23	14:00	236.26	0.17	86	86.1	-28	-27.3	20			MB		
24	14:00	199.95	0.14	84	83.8	-28	-27.5	20			MB		
25	14:00	97.48	0.07	84	83.7	-28	-27.7	20			MB		
26	14:00	145.67	0.10	83	82.7	-27	-27.7	20			MB		
27	14:00	238.69	0.17	78	78.2	-28	-27.5	19			MB		
28	14:00	215.76	0.14	78	77.9	-27	-27.2	19			SA		
29	14:00	123.21	0.10	75	75.1	-28	-27.4	19			SA		
30	14:00	60.57	0.05	79	79.7	-28	-27.4	19			SA		
31	14:00	130.05	0.10	77	77.6	-15	-14.0	19			SA		

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Weekly Injectate Samples

Kansas Lab Certificate Number E-10152

Week	**Temperature**		**pH**		**Chloride**				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	48.00	03/07/2019	7.70	03/07/2019	720.0	03/07/2019	03/11/2019		
2	47.00	03/15/2019	7.90	03/15/2019	800.0	03/15/2019	03/20/2019		
3	48.00	03/21/2019	7.90	03/21/2019	837.0	03/21/2019	03/26/2019		
4	60.00	03/28/2019	8.00	03/28/2019	770.0	03/28/2019	04/01/2019		
5									

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 03/13/2019
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
Benzene	0.000	mg/l
Calcium	540.000	mg/l
Conductivity	4,030.000	Mmhos
Iron	0.010	mg/l
Magnesium	39.400	mg/l
Sulfate	1,080.000	mg/l
Total Alkalinity as CaCO3	186.000	mg/l
Total Dissolved Solids	3,070.000	mg/l
Total Hardness as CaCO3	1,511.000	mg/l