Facility Well Name Pioneer #3 **UIC Permit #** KS-01-077-002 **Month** September **Year** 2021

Submitted 10/25/2021 **Approved** 10/25/2021 **KOLAR Document ID** 1596133

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	75	0.05	86	87	-25.5	-25.7	7
Monthly Maximum	258	0.19	89	89	-21.0	-20.6	200
Monthly Minimum	0	0.00	74	74	-27.0	-27.3	0
Monthly Total	2,237						200

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
89.92	65.15	-12.14	-27.52

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	0.05	0.00	89	88.9	-21	-20.6	11		0	MS		
2	14:00	61.33	0.05	88	88.3	-27	-26.8	11		0	MS		
3	14:00	142.07	0.10	86	86.1	-25	-24.6	11		0	MS		
4	14:00	117.86	0.07	85	85.2	-25	-24.6	11		0	MS		
5	14:00	81.10	0.05	88	87.5	-27	-26.7	11		0	MS		
6	14:00	88.48	0.07	88	88.4	-27	-27.0	11		0	MS		
7	14:00	102.69	0.07	88	89.0	-27	-27.1	11		0	MB		
8	14:00	64.57	0.05	86	86.8	-27	-27.3	11		0	MB		
9	14:00	0.74	0.00	88	88.5	-24	-24.5	10		0	MB		
10	14:00	1.21	0.00	88	88.1	-24	-24.7	10		0	MB		
11	14:00	26.90	0.02	88	88.1	-25	-25.7	9		0	MB		
12	14:00	258.00	0.19	87	87.2	-23	-23.7	9		0	MB		
13	14:00	75.74	0.05	87	87.3	-26	-26.8	9		0	MB		
14	14:00	27.36	0.02	88	87.9	-27	-26.7	9		0	KS		
15	14:00	70.31	0.05	88	87.6	-27	-26.7	9		0	KS		
16	14:00	21.98	0.02	87	86.6	-25	-24.9	9		0	KS		
17	14:00	43.88	0.02	87	86.5	-25	-25.1	9		0	KS		
18	14:00	54.07	0.05	86	86.4	-25	-25.2	9		0	KS		
19	14:00	87.93	0.07	86	86.5	-25	-25.5	9		0	KS		
20	14:00	104.17	0.07	86	86.5	-26	-25.6	9		0	KS		
21	14:00	43.93	0.02	85	84.9	-23	-23.4	9		0	SA		
22	14:00	69.57	0.05	87	87.7	-25	-25.1	9		0	SA		
23	14:00	69.71	0.05	88	88.2	-26	-26.7	8		0	SA		
24	14:00	55.74	0.05	86	86.4	-27	-27.0	8		0	SA		
25	14:00	79.31	0.05	85	85.5	-27	-27.2	8		0	SA		
26	14:00	64.02	0.05	87	87.7	-27	-26.9	8		0	SA		
27	14:00	100.40	0.07	86	86.2	-26	-26.5	8		0	SA		
28	14:00	120.29	0.10	85	85.4	-24	-24.6	8	diesel	200	MB		
29	14:00	104.69	0.07	74	74.2	-26	-26.6	18		0	MB		
30	14:00	99.38	0.07	83	83.0	-25	-25.7	18		0	MB		
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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	72.00	09/02/2021	7.80	09/02/2021	810.0	09/02/2021	09/07/2021		
2	64.00	09/09/2021	7.80	09/09/2021	910.0	09/09/2021	09/15/2021		
3	68.00	09/16/2021	7.80	09/16/2021	840.0	09/16/2021	09/17/2021		
4	63.00	09/23/2021	7.80	09/23/2021	880.0	09/23/2021	09/28/2021		
5	66.00	09/30/2021	7.80	09/30/2021	920.0	09/30/2021	10/04/2021		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 3
Date Sample Collected 09/16/2021
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	108.000	mg/l
Conductivity	867.000	Mmhos
Iron	0.010	mg/l
Magnesium	7.850	mg/l
Sulfate	21.000	mg/l
Total Alkalinity as CaCO3	262.000	mg/l
Total Dissolved Solids	473.000	mg/l
Total Hardness as CaCO3	302.000	mg/l