Facility Well Name Pioneer #2 **UIC Permit #** KS-01-077-001 **Month** December **Year** 2021

Submitted 01/31/2022 **Approved** 01/31/2022 **KOLAR Document ID** 1614755

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

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	67	0.05	85	85	-25.4	-25.9	0
Monthly Maximum	113	0.07	96	97	-23.0	-23.6	0
Monthly Minimum	21	0.02	71	72	-27.0	-27.1	0
Monthly Total	2,064						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
100.87	69.93	-5.33	-27.55

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	72.21	0.05	84	84.3	-26	-26.9	18		0	MB		
2	14:00	99.88	0.07	86	86.5	-26	-26.5	18		0	MB		
3	14:00	113.14	0.07	82	82.1	-27	-27.1	18		0	MB		
4	14:00	25.98	0.02	81	81.4	-23	-23.6	18		0	MB		
5	14:00	82.76	0.05	83	83.7	-25	-25.7	18		0	MB		
6	14:00	61.81	0.05	77	77.1	-26	-26.7	18		0	MB		
7	14:00	94.10	0.07	74	74.2	-24	-24.1	18		0	MB		
8	14:00	109.26	0.07	80	80.2	-25	-25.9	18		0	MB		
9	14:00	58.26	0.05	83	83.7	-25	-25.7	18		0	MB		
10	14:00	58.00	0.05	84	84.6	-25	-25.6	18		0	SA		
11	14:00	90.88	0.07	84	84.2	-25	-25.5	18		0	KS		
12	14:00	89.90	0.07	84	83.9	-25	-25.5	18		0	KS		
13	14:00	68.40	0.05	83	83.4	-25	-25.4	18		0	KS		
14	14:00	77.12	0.05	83	83.2	-25	-25.4	18		0	SA		
15	14:00	76.00	0.05	86	86.6	-24	-24.8	18		0	SA		
16	14:00	83.43	0.05	76	77.0	-23	-23.7	18		0	SA		
17	14:00	67.86	0.05	74	74.6	-24	-24.7	18		0	SA		
18	14:00	54.31	0.05	71	71.8	-26	-26.5	18		0	SA		
19	14:00	34.02	0.02	96	96.1	-26	-26.3	18		0	SA		
20	14:00	49.95	0.02	95	95.2	-26	-26.7	18		0	MB		
21	14:00	21.10	0.02	96	96.8	-26	-26.7	18		0	MB		
22	14:00	53.24	0.05	96	96.7	-26	-26.7	18		0	MB		
23	14:00	53.24	0.05	96	96.4	-26	-26.3	18		0	MB		
24	14:00	74.36	0.05	90	90.7	-26	-26.2	18		0	MB		
25	14:00	89.45	0.07	87	88.0	-26	-26.5	18		0	MB		
26	14:00	57.33	0.05	87	87.1	-26	-26.3	18		0	MB		
27	14:00	66.93	0.05	84	84.6	-26	-26.6	18		0	MB		
28	14:00	57.19	0.05	86	86.8	-26	-26.5	18		0	DR		
29	14:00	71.12	0.05	86	86.1	-26	-26.3	18		0	DR		
30	14:00	23.50	0.02	86	86.5	-26	-26.2	18		0	DR		
31	14:00	29.52	0.02	86	86.3	-26	-26.2	18		0	DR		

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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	52.00	12/02/2021	8.00	12/02/2021	1,050.0	12/02/2021	12/06/2021		
2	50.00	12/09/2021	7.90	12/09/2021	960.0	12/09/2021	12/14/2021		
3	52.00	12/16/2021	8.10	12/16/2021	137.0	12/16/2021	12/20/2021		
4	52.00	12/21/2021	8.00	12/21/2021	940.0	12/21/2021	12/28/2021		
5	54.00	12/30/2021	8.10	12/30/2021	1,000.0	12/30/2021	01/03/2022		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 4
Date Sample Collected 12/08/2021
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	99.600	mg/l
Conductivity	860.000	Mmhos
Iron	0.022	mg/l
Magnesium	7.740	mg/l
Sulfate	15.000	mg/l
Total Alkalinity as CaCO3	260.000	mg/l
Total Dissolved Solids	517.000	mg/l
Total Hardness as CaCO3	281.000	mg/l