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

Submitted 05/10/2021 **Approved** 05/10/2021 **KOLAR Document ID** 1572050

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 22

Barrels per Day Maximum: 1,000

	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Annulus Pressure psig min 60 Gauge psig	Annulus Pressure Cont. Record psig	Injection Pressure Gauge psig	Injection Pressure Cont. Record psig	Amount Added to Seal Pot
Monthly Average	104	0.07	89	89	-22.3	-22.5	0
Monthly Maximum	274	0.19	93	93	-10.0	-10.8	0
Monthly Minimum	0	0.00	83	83	-27.0	-27.5	0
Monthly Total	3,228						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
93.95	-99,999.00	-99,999.00	-27.88

Comments:

The minimum ann pressure & the maximum inj pressure were erroneous readings. We did have some power dips at that time. I will schedule our contract I&E Man to check this out.

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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	0.00	0.00	87	87.3	-11	-11.1	9		0	MS		
2	14:00	0.00	0.00	92	92.9	-11	-11.8	9		0	MB		
3	14:00	0.00	0.00	93	93.3	-10	-10.8	9		0	MB		
4	14:00	0.00	0.00	93	93.2	-11	-11.0	9		0	MB		
5	14:00	0.00	0.00	91	91.6	-11	-10.8	9		0	SA		
6	14:00	0.00	0.00	91	91.9	-10	-10.8	9		0	MB		
7	14:00	8.02	0.00	91	91.9	-26	-26.4	9		0	MB		
8	14:00	85.69	0.05	91	91.4	-24	-24.2	9		0	MB		
9	14:00	74.98	0.05	92	91.8	-25	-24.8	9		0	KS		
10	14:00	146.05	0.10	90	90.4	-25	-24.7	9		0	KS		
11	14:00	163.74	0.12	87	88.3	-26	-25.7	9		0	KS		
12	14:00	175.07	0.12	86	85.6	-26	-26.2	9		0	KS		
13	14:00	212.36	0.14	88	88.1	-26	-25.9	9		0	KS		
14	14:00	221.76	0.14	90	89.9	-25	-24.9	9		0	KS		
15	14:00	187.74	0.12	89	89.0	-26	-25.5	9		0	KS		
16	14:00	217.10	0.14	90	90.2	-25	-24.7	9		0	MS		
17	14:00	228.17	0.17	83	83.1	-27	-26.9	9		0	MS		
18	14:00	171.93	0.12	86	85.9	-24	-24.5	9		0	MS		
19	14:00	0.00	0.00	89	89.2	-24	-23.5	9		0	MS		
20	14:00	18.40	0.02	90	89.7	-25	-25.3	9		0	MS		
21	14:00	97.50	0.07	90	90.1	-24	-23.9	9		0	MS		
22	14:00	115.52	0.07	86	85.7	-25	-25.4	9		0	MS		
23	14:00	274.38	0.19	85	85.8	-24	-24.6	8		0	MB		
24	14:00	199.62	0.14	85	85.2	-25	-25.2	8		0	MB		
25	14:00	162.95	0.12	86	85.7	-23	-24.0	8		0	MB		
26	14:00	0.00	0.00	91	91.6	-22	-23.0	8		0	MB		
27	14:00	0.00	0.00	89	89.9	-22	-22.5	8		0	MB		
28	14:00	80.48	0.05	87	87.2	-27	-27.1	8		0	MB		
29	14:00	136.45	0.10	90	90.6	-26	-26.4	8		0	MB		
30	14:00	107.64	0.07	88	87.9	-27	-27.0	8		0	KS		
31	14:00	142.79	0.10	87	87.4	-27	-27.5	8		0	KS		

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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	53.00	03/04/2021	8.30	03/04/2021	470.0	03/04/2021	03/08/2021		
2	51.00	03/11/2021	8.10	03/11/2021	662.0	03/11/2021	03/16/2021		
3	52.00	03/18/2021	7.90	03/18/2021	562.0	03/18/2021	03/23/2021		
4	53.00	03/25/2021	7.90	03/25/2021	637.0	03/25/2021	03/29/2021		
5	50.00	03/31/2021	7.90	03/31/2021	820.0	03/31/2021	04/01/2021		

No monthly injectate samples required.

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Quarterly Injectate Samples

Quarter 1
Date Sample Collected 03/18/2021
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	3.300	mg/l
Calcium	388.000	mg/l
Conductivity	2,960.000	Mmhos
Iron	0.223	mg/l
Magnesium	26.900	mg/l
Sulfate	690.000	mg/l
Total Alkalinity as CaCO3	174.000	mg/l
Total Dissolved Solids	2,020.000	mg/l
Total Hardness as CaCO3	1,080.000	mg/l