Facility Well Name Pioneer #2 **UIC Permit #** KS-01-077-001 **Month** September **Year** 2020

Submitted 10/29/2020 **Approved** 10/29/2020 **KOLAR Document ID** 1534781

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	112	0.08	86	86	-26.4	-26.6	0
Monthly Maximum	242	0.17	91	91	-23.0	-23.4	0
Monthly Minimum	20	0.02	78	78	-28.0	-27.5	0
Monthly Total	3,357						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
92.30	75.03	-16.51	-27.85

Comments:

Pioneer #2 09/2020

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	95.21	0.07	90	90.2	-25	-26.0	17		0	MB		
2	14:00	116.48	0.07	89	88.7	-27	-26.7	17		0	KS		
3	14:00	39.33	0.02	91	90.8	-27	-26.6	17		0	KS		
4	14:00	123.74	0.10	89	88.6	-27	-26.9	17		0	MS		
5	14:00	99.38	0.07	90	89.6	-27	-26.6	17		0	KS		
6	14:00	95.69	0.07	91	90.9	-26	-26.5	17		0	KS		
7	14:00	114.33	0.07	83	82.5	-26	-25.8	17		0	KS		
8	14:00	72.57	0.05	84	83.6	-26	-25.7	17		0	KS		
9	14:00	31.38	0.02	78	78.0	-26	-26.3	17		0	MS		
10	14:00	115.38	0.07	79	79.2	-26	-27.2	17		0	MS		
11	14:00	47.76	0.02	83	82.9	-27	-26.0	17		0	MS		
12	14:00	73.55	0.05	87	87.2	-26	-26.7	17		0	MS		
13	14:00	54.71	0.05	88	87.6	-27	-26.8	17		0	MS		
14	14:00	161.86	0.12	85	85.2	-27	-27.3	17		0	MS		
15	14:00	30.79	0.02	87	87.7	-23	-23.4	17		0	MB		
16	14:00	242.31	0.17	86	86.4	-26	-26.8	17		0	MB		
17	14:00	151.33	0.10	86	86.4	-25	-25.9	17		0	MB		
18	14:00	218.93	0.14	84	84.8	-27	-27.2	17		0	MB		
19	14:00	188.86	0.14	84	84.1	-27	-27.2	17		0	MB		
20	14:00	135.86	0.10	84	84.5	-27	-27.2	17		0	MB		
21	14:00	188.62	0.14	84	84.9	-27	-27.2	17		0	MB		
22	14:00	154.55	0.12	85	85.1	-27	-27.2	17		0	KS		
23	14:00	117.43	0.07	88	88.2	-27	-27.0	17		0	KS		
24	14:00	109.31	0.07	89	88.9	-26	-26.2	17		0	KS		
25	14:00	117.55	0.07	90	89.7	-26	-26.3	17		0	KS		
26	14:00	130.17	0.10	85	85.5	-26	-26.3	17		0	KS		
27	14:00	19.69	0.02	83	83.0	-26	-26.4	17		0	KS		
28	14:00	72.31	0.05	81	81.0	-28	-27.5	17		0	KS		
29	14:00	45.02	0.02	85	85.3	-27	-26.9	17		0	MS		
30	14:00	193.12	0.14	86	86.1	-27	-27.1	17		0	SA		
31													

Pioneer #2 09/2020

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	68.00	09/03/2020	7.80	09/03/2020	750.0	09/03/2020	09/08/2020		
2	50.00	09/10/2020	7.90	09/10/2020	840.0	09/10/2020	09/14/2020		
3	62.00	09/17/2020	8.30	09/17/2020	740.0	09/17/2020	09/18/2020		
4	68.00	09/23/2020	8.10	09/23/2020	544.0	09/23/2020	09/25/2020		
5									

No monthly injectate samples required.

Pioneer #2 09/2020

Quarterly Injectate Samples

Quarter 3
Date Sample Collected 09/04/2020
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	500.000	mg/l
Conductivity	41.400	Mmhos
Iron	580.000	mg/l
Magnesium	0.500	mg/l
Sulfate	2,850.000	mg/l
Total Alkalinity as CaCO3	484.000	mg/l
Total Dissolved Solids	1,419.000	mg/l
Total Hardness as CaCO3	3,980.000	mg/l