Facility Well Name Pioneer #2 **UIC Permit #** KS-01-077-001 **Month** November **Year** 2019

Submitted 12/18/2019 **Approved** 12/23/2019 **KOLAR Document ID** 1485939

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 30

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	74	0.05	87	86	-26.4	-26.2	0
Monthly Maximum	115	0.07	92	91	-24.0	-20.4	0
Monthly Minimum	34	0.02	80	79	-28.0	-27.7	0
Monthly Total	2,208						0

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
91.20	72.24	-0.92	-28.02

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	63.10	0.05	88	86.7	-28	-27.1	17		0	SA		
2	14:00	94.48	0.07	90	90.3	-28	-27.6	17		0	SA		
3	14:00	77.60	0.05	91	90.2	-28	-26.6	17		0	SA		
4	14:00	33.93	0.02	91	90.4	-27	-26.5	17		0	MS		
5	14:00	72.83	0.05	90	89.3	-26	-25.9	17		0	MB		
6	14:00	114.95	0.07	90	89.8	-27	-26.9	17		0	MB		
7	14:00	37.69	0.02	85	84.6	-24	-24.3	17		0	MB		
8	14:00	63.05	0.05	87	85.2	-26	-25.3	17		0	MB		
9	14:00	70.67	0.05	92	91.3	-25	-23.8	17		0	MB		
10	14:00	100.55	0.07	92	90.4	-27	-27.1	17		0	MB		
11	14:00	95.05	0.07	80	80.0	-24	-20.4	17		0	MB		
12	14:00	63.88	0.05	81	79.6	-25	-25.3	17		0	MS		
13	14:00	43.24	0.02	85	84.9	-25	-25.4	17		0	MS		
14	14:00	65.90	0.05	86	85.8	-25	-26.1	17		0	MS		
15	14:00	67.19	0.05	89	87.3	-26	-26.7	17		0	MS		
16	14:00	78.29	0.05	88	87.0	-27	-27.1	17		0	MS		
17	14:00	84.71	0.05	88	87.0	-26	-26.7	17		0	MS		
18	14:00	95.57	0.07	90	89.1	-26	-26.6	17		0	KS		
19	14:00	94.48	0.07	88	86.4	-28	-27.3	17		0	SA		
20	14:00	100.10	0.07	87	85.8	-28	-26.5	17		0	MS		
21	14:00	79.24	0.05	84	82.7	-26	-26.4	17		0	MS		
22	14:00	36.83	0.02	80	79.1	-26	-25.8	17		0	MB		
23	14:00	73.52	0.05	87	87.0	-26	-26.9	17		0	SA		
24	14:00	80.17	0.05	90	90.5	-27	-26.9	17		0	SA		
25	14:00	82.14	0.05	90	89.3	-27	-26.2	17		0	SA		
26	14:00	68.36	0.05	88	87.9	-26	-26.3	17		0	MB		
27	14:00	97.00	0.07	83	82.5	-27	-27.7	17		0	MB		
28	14:00	47.00	0.02	81	81.2	-27	-27.7	17		0	MB		
29	14:00	40.55	0.02	84	84.6	-26	-26.0	17		0	MB		
30	14:00	85.95	0.07	87	86.8	-27	-26.9	17		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	56.00	11/07/2019	7.80	11/07/2019	740.0	11/07/2019	11/11/2019		
2	50.00	11/14/2019	7.80	11/14/2019	770.0	11/14/2019	11/15/2019		
3	55.00	11/21/2019	7.90	11/21/2019	720.0	11/21/2019	11/25/2019		
4	55.00	11/26/2019	7.90	11/26/2019	750.0	11/26/2019	12/03/2019		
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No monthly injectate samples required.