Facility Well Name Pioneer #3 **UIC Permit #** KS-01-077-002 **Month** November **Year** 2019

Submitted 12/18/2019 **Approved** 12/23/2019 **KOLAR Document ID** 1485940

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 28

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	64	0.04	88	88	-27.4	-27.4	237
Monthly Maximum	187	0.12	96	98	-26.0	-26.5	237
Monthly Minimum	0	0.00	76	76	-29.0	-27.9	237
Monthly Total	1,913						237

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
98.19	52.22	-0.03	-28.02

Comments:

11-6-19 - Added 237 Gal of Diesel to Seal Pot which brought the sight glass level to 18". Also during the time of adding Diesel, we had to blow pressure off & block in Seal Pot. Resulting in No. Well having a Low Annulus Alarm. MJB

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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	59.52	0.05	89	89.8	-27	-27.7	6			SA		
2	14:00	75.90	0.05	90	90.1	-28	-27.6	6			SA		
3	14:00	71.19	0.05	91	91.3	-27	-27.4	6			SA		
4	14:00	29.83	0.02	92	91.0	-27	-27.5	6			MS		
5	14:00	50.62	0.02	91	90.1	-27	-27.6	5			MB		
6	14:00	103.95	0.07	90	90.0	-28	-27.3	18	Diesel	237	MB		
7	14:00	36.26	0.02	84	84.2	-28	-27.3	18			MB		
8	14:00	49.48	0.02	89	89.6	-29	-27.6	18			MB		
9	14:00	63.00	0.05	94	94.4	-27	-27.4	18			MB		
10	14:00	86.95	0.07	91	90.7	-28	-27.4	18			MB		
11	14:00	84.98	0.05	81	81.2	-28	-27.4	18			MB		
12	14:00	0.00	0.00	93	95.1	-28	-27.6	18			MS		
13	14:00	0.00	0.00	96	98.2	-26	-26.5	18			MS		
14	14:00	54.55	0.05	94	95.2	-28	-27.6	18			MS		
15	14:00	44.31	0.02	94	94.6	-27	-27.6	18			MS		
16	14:00	67.98	0.05	90	90.1	-27	-27.4	18			MS		
17	14:00	79.19	0.05	90	90.5	-27	-27.5	18			MS		
18	14:00	89.90	0.07	90	90.7	-27	-27.2	18			KS		
19	14:00	89.93	0.07	85	86.3	-26	-27.3	18			SA		
20	14:00	96.55	0.07	86	86.5	-28	-27.3	17			MS		
21	14:00	61.71	0.05	84	84.2	-28	-27.4	17			MS		
22	14:00	31.88	0.02	82	81.2	-28	-27.2	17			MB		
23	14:00	51.52	0.05	82	82.7	-27	-27.4	17			SA		
24	14:00	69.90	0.05	84	84.5	-27	-27.2	17			SA		
25	14:00	67.98	0.05	84	84.5	-27	-27.1	17			SA		
26	14:00	61.19	0.05	82	82.3	-27	-26.7	17			MB		
27	14:00	186.98	0.12	76	76.2	-28	-27.8	17			MB		
28	14:00	29.98	0.02	85	85.4	-27	-27.9	17			MB		
29	14:00	45.07	0.02	88	88.0	-27	-27.4	17			MB		
30	14:00	73.07	0.05	88	87.6	-27	-27.1	17			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.