**Facility Well Name** Pioneer #2 **UIC Permit #** KS-01-077-001 **Month** November **Year** 2022

**Submitted** 01/12/2023 **Approved** 01/24/2023 **KOLAR Document ID** 1680193

# Class I-V Injection Well Monthly Monitoring

## Summary of Monthly Report

**Number of days injection occurred:** 29

**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** | 98 | 0.07 | 82 | 82 | -23.7 | -24.2 | 0 |
| **Monthly Maximum** | 391 | 0.26 | 89 | 89 | -12.0 | -12.2 | 0 |
| **Monthly Minimum** | 0 | 0.00 | 70 | 71 | -26.0 | -27.0 | 0 |
| **Monthly Total** | 2,927 | | | | | | 0 |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 89.41 | 65.87 | -6.77 | -27.55 |

**Comments:**

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# Daily Recorder Data

| Day | Time<br>24 hr | Injection Volume<br>Barrels Per Day | Injection Rate<br>Barrels Per Minute | Annulus Pressure (Gauge)<br>psig | Annulus Pressure (Continuous Recorder)<br>psig | Injection Pressure (Gauge)<br>+ / - | Injection Pressure (Continuous Recorder)<br>+ / - | Seal Pot Fluid Level<br>inches | Type of Fluid Added to Seal Pot | Amount of Fluid Added to Seal Pot<br>gallons | Initials of Collector of Field Recordings | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14:00 | 61.02 | 0.05 | 83 | 83.5 | -25 | -25.2 | 19 | | 0 | MB | | |
| 2 | 14:00 | 114.33 | 0.07 | 80 | 80.3 | -25 | -25.2 | 19 | | 0 | MB | | |
| 3 | 14:00 | 183.17 | 0.12 | 79 | 79.2 | -25 | -25.6 | 18 | | 0 | MB | | |
| 4 | 14:00 | 211.05 | 0.14 | 70 | 70.7 | -26 | -26.2 | 18 | | 0 | MB | | |
| 5 | 14:00 | 326.86 | 0.24 | 75 | 75.3 | -25 | -25.2 | 18 | | 0 | MB | | |
| 6 | 14:00 | 23.45 | 0.02 | 77 | 77.5 | -23 | -23.9 | 18 | | 0 | MB | | |
| 7 | 14:00 | 65.24 | 0.05 | 76 | 76.8 | -23 | -23.9 | 18 | | 0 | MB | | |
| 8 | 14:00 | 234.40 | 0.17 | 76 | 76.7 | -25 | -25.4 | 18 | | 0 | KS | | |
| 9 | 14:00 | 390.60 | 0.17 | 79 | 79.3 | -25 | -25.1 | 18 | | 0 | KS | | |
| 10 | 14:00 | 143.64 | 0.10 | 74 | 74.1 | -21 | -21.5 | 18 | | 0 | KS | | |
| 11 | 14:00 | 10.67 | 0.02 | 79 | 79.8 | -26 | -26.7 | 18 | | 0 | KS | | |
| 12 | 14:00 | 27.36 | 0.12 | 87 | 87.1 | -24 | -24.1 | 18 | | 0 | KS | | |
| 13 | 14:00 | 17.76 | 0.02 | 84 | 84.9 | -25 | -25.0 | 18 | | 0 | KS | | |
| 14 | 14:00 | 150.76 | 0.07 | 83 | 83.8 | -26 | -26.2 | 18 | | 0 | MB | | |
| 15 | 14:00 | 65.17 | 0.05 | 84 | 84.8 | -25 | -25.6 | 18 | | 0 | MB | | |
| 16 | 14:00 | 16.21 | 0.00 | 84 | 84.1 | -26 | -26.3 | 17 | | 0 | MB | | |
| 17 | 14:00 | 52.19 | 0.05 | 83 | 83.1 | -26 | -27.0 | 17 | | 0 | MB | | |
| 18 | 14:00 | 0.00 | 0.00 | 80 | 80.0 | -19 | -19.0 | 18 | | 0 | MB | | |
| 19 | 14:00 | 39.67 | 0.02 | 84 | 84.6 | -26 | -26.9 | 18 | | 0 | KS | | |
| 20 | 14:00 | 149.62 | 0.26 | 84 | 84.8 | -12 | -12.2 | 18 | | 0 | KS | | |
| 21 | 14:00 | 193.90 | 0.14 | 84 | 84.1 | -26 | -26.1 | 17 | | 0 | MB | | |
| 22 | 14:00 | 66.24 | 0.05 | 89 | 89.3 | -18 | -18.4 | 17 | | 0 | MB | | |
| 23 | 14:00 | 150.33 | 0.10 | 87 | 87.0 | -24 | -24.9 | 18 | | 0 | MB | | |
| 24 | 14:00 | 103.14 | 0.07 | 86 | 86.9 | -23 | -23.3 | 18 | | 0 | MB | | |
| 25 | 14:00 | 12.19 | 0.00 | 85 | 85.9 | -23 | -23.5 | 18 | | 0 | MB | | |
| 26 | 14:00 | 9.19 | 0.00 | 85 | 85.0 | -21 | -21.5 | 18 | | 0 | MB | | |
| 27 | 14:00 | 87.50 | 0.07 | 83 | 84.0 | -25 | -25.5 | 18 | | 0 | MB | | |
| 28 | 14:00 | 8.50 | 0.00 | 85 | 85.4 | -24 | -24.7 | 18 | | 0 | MB | | |
| 29 | 14:00 | 1.60 | 0.00 | 80 | 80.9 | -26 | -26.9 | 18 | | 0 | MB | | |
| 30 | 14:00 | 11.40 | 0.00 | 82 | 82.8 | -23 | -23.7 | 18 | | 0 | MB | | |
| 31 | | | | | | | | | | | | | |

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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 | 64.00 | 11/03/2022 | 8.10 | 11/03/2022 | 860.0 | 11/03/2022 | 11/11/2022 | | |
| 2 | 69.00 | 11/10/2022 | 8.00 | 11/10/2022 | 800.0 | 11/10/2022 | 11/16/2022 | | |
| 3 | 67.00 | 11/17/2022 | 7.80 | 11/17/2022 | 419.0 | 11/17/2022 | 11/28/2022 | | |
| 4 | 62.00 | 11/24/2022 | 8.00 | 11/24/2022 | 469.0 | 11/24/2022 | 11/28/2022 | | |
| 5 | | | | | | | | | |

## No monthly injectate samples required.