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

**Submitted** 05/27/2022 **Approved** 05/31/2022 **KOLAR Document ID** 1645694

# 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 | 73 | 0.05 | 79 | 80 | -24.0 | -24.4 | 0 |
| Monthly Maximum | 197 | 0.14 | 87 | 87 | -11.0 | -11.6 | 0 |
| Monthly Minimum | 11 | 0.00 | 74 | 75 | -28.0 | -27.6 | 0 |
| Monthly Total | 2,190 | | | | | | 0 |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 87.09 | 70.29 | -9.90 | -27.87 |

**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 | 43.12 | 0.02 | 79 | 79.6 | -23 | -23.2 | 18 | | 0 | DR | | |
| 2 | 14:00 | 86.71 | 0.07 | 81 | 81.2 | -27 | -27.2 | 18 | | 0 | SA | | |
| 3 | 14:00 | 88.38 | 0.07 | 81 | 82.0 | -26 | -26.8 | 18 | | 0 | SA | | |
| 4 | 14:00 | 61.19 | 0.05 | 80 | 80.9 | -26 | -26.8 | 18 | | 0 | DR | | |
| 5 | 14:00 | 78.50 | 0.05 | 83 | 83.2 | -26 | -26.7 | 18 | | 0 | MB | | |
| 6 | 14:00 | 47.14 | 0.02 | 79 | 79.2 | -27 | -27.3 | 18 | | 0 | MB | | |
| 7 | 14:00 | 69.95 | 0.05 | 77 | 77.8 | -27 | -27.0 | 18 | | 0 | MB | | |
| 8 | 14:00 | 101.81 | 0.07 | 78 | 78.4 | -26 | -26.7 | 18 | | 0 | MB | | |
| 9 | 14:00 | 25.10 | 0.02 | 82 | 82.9 | -26 | -26.7 | 18 | | 0 | MB | | |
| 10 | 14:00 | 74.17 | 0.05 | 82 | 82.4 | -26 | -26.6 | 18 | | 0 | MB | | |
| 11 | 14:00 | 11.10 | 0.00 | 81 | 81.6 | -26 | -26.4 | 18 | | 0 | MB | | |
| 12 | 14:00 | 107.74 | 0.07 | 87 | 87.2 | -11 | -11.6 | 18 | | 0 | DR | | |
| 13 | 14:00 | 44.81 | 0.02 | 77 | 77.1 | -25 | -25.2 | 18 | | 0 | DR | | |
| 14 | 14:00 | 40.62 | 0.02 | 76 | 76.2 | -27 | -27.6 | 18 | | 0 | DR | | |
| 15 | 14:00 | 50.88 | 0.02 | 76 | 76.5 | -28 | -27.5 | 18 | | 0 | KS | | |
| 16 | 14:00 | 58.90 | 0.05 | 77 | 76.8 | -27 | -27.4 | 18 | | 0 | KS | | |
| 17 | 14:00 | 67.07 | 0.05 | 77 | 77.3 | -27 | -27.3 | 18 | | 0 | KS | | |
| 18 | 14:00 | 71.71 | 0.05 | 78 | 78.6 | -27 | -27.3 | 18 | | 0 | DR | | |
| 19 | 14:00 | 42.79 | 0.02 | 76 | 76.4 | -26 | -26.8 | 18 | | 0 | DR | | |
| 20 | 14:00 | 138.43 | 0.10 | 83 | 83.5 | -26 | -26.7 | 18 | | 0 | DR | | |
| 21 | 14:00 | 11.12 | 0.00 | 80 | 80.7 | -12 | -12.1 | 18 | | 0 | DR | | |
| 22 | 14:00 | 94.55 | 0.07 | 82 | 82.3 | -25 | -25.9 | 18 | | 0 | DR | | |
| 23 | 14:00 | 18.36 | 0.02 | 83 | 83.3 | -26 | -26.5 | 18 | | 0 | SA | | |
| 24 | 14:00 | 62.43 | 0.05 | 78 | 78.9 | -12 | -12.9 | 18 | | 0 | SA | | |
| 25 | 14:00 | 86.95 | 0.07 | 74 | 74.9 | -15 | -15.2 | 18 | | 0 | DR | | |
| 26 | 14:00 | 67.83 | 0.05 | 77 | 77.4 | -27 | -27.3 | 18 | | 0 | MB | | |
| 27 | 14:00 | 86.48 | 0.07 | 77 | 77.9 | -27 | -27.4 | 18 | | 0 | MB | | |
| 28 | 14:00 | 174.60 | 0.12 | 76 | 76.7 | -12 | -12.9 | 18 | | 0 | MB | | |
| 29 | 14:00 | 197.05 | 0.14 | 82 | 82.6 | -26 | -26.5 | 18 | | 0 | MB | | |
| 30 | 14:00 | 80.24 | 0.05 | 78 | 78.7 | -27 | -27.1 | 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 | 50.00 | 04/07/2022 | 8.40 | 04/07/2022 | 840.0 | 04/07/2022 | 04/11/2022 | | |
| 2 | 55.00 | 04/14/2022 | 8.40 | 04/14/2022 | 930.0 | 04/14/2022 | 04/18/2022 | | |
| 3 | 53.00 | 04/21/2022 | 8.40 | 04/21/2022 | 820.0 | 04/21/2022 | 04/25/2022 | | |
| 4 | 64.00 | 04/28/2022 | 7.80 | 04/28/2022 | | 04/28/2022 | | | |
| 5 | | | | | | | | | |

## No monthly injectate samples required.