**Facility Well Name** Pioneer #3 **UIC Permit #** KS-01-077-002 **Month** October **Year** 2020

**Submitted** 11/23/2020 **Approved** 11/30/2020 **KOLAR Document ID** 1537065

# 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 | 63 | 0.05 | 86 | 86 | -26.8 | -27.1 | 0 |
| Monthly Maximum | 122 | 0.10 | 93 | 93 | -25.0 | -25.3 | 0 |
| Monthly Minimum | 0 | 0.00 | 81 | 81 | -27.0 | -27.4 | 0 |
| Monthly Total | 1,958 | | | | | | 0 |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 92.75 | 80.56 | -19.95 | -27.72 |

**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 | 57.29 | 0.05 | 84 | 84.6 | -27 | -27.4 | 11 | | 0 | SA | | |
| 2 | 14:00 | 78.90 | 0.05 | 85 | 85.6 | -27 | -27.4 | 11 | | 0 | MB | | |
| 3 | 14:00 | 91.71 | 0.07 | 84 | 84.7 | -27 | -27.4 | 11 | | 0 | MB | | |
| 4 | 14:00 | 61.45 | 0.05 | 86 | 87.0 | -26 | -26.4 | 11 | | 0 | MB | | |
| 5 | 14:00 | 73.36 | 0.05 | 87 | 87.8 | -27 | -27.4 | 11 | | 0 | MB | | |
| 6 | 14:00 | 77.02 | 0.05 | 87 | 87.3 | -27 | -27.2 | 11 | | 0 | MB | | |
| 7 | 14:00 | 90.95 | 0.07 | 87 | 87.2 | -26 | -26.9 | 11 | | 0 | MB | | |
| 8 | 14:00 | 84.57 | 0.05 | 89 | 89.3 | -27 | -27.3 | 11 | | 0 | MB | | |
| 9 | 14:00 | 97.93 | 0.07 | 88 | 88.6 | -27 | -27.2 | 11 | | 0 | SA | | |
| 10 | 14:00 | 57.26 | 0.05 | 87 | 88.0 | -27 | -27.1 | 11 | | 0 | MB | | |
| 11 | 14:00 | 87.36 | 0.07 | 88 | 88.6 | -27 | -27.0 | 11 | | 0 | MB | | |
| 12 | 14:00 | 43.14 | 0.02 | 86 | 86.4 | -27 | -27.2 | 11 | | 0 | MB | | |
| 13 | 14:00 | 101.95 | 0.07 | 86 | 86.8 | -27 | -27.4 | 11 | | 0 | SA | | |
| 14 | 14:00 | 79.00 | 0.05 | 88 | 88.3 | -27 | -26.9 | 11 | | 0 | MS | | |
| 15 | 14:00 | 121.81 | 0.10 | 81 | 81.2 | -27 | -27.3 | 11 | | 0 | SA | | |
| 16 | 14:00 | 61.31 | 0.05 | 84 | 84.4 | -27 | -27.2 | 11 | | 0 | SA | | |
| 17 | 14:00 | 86.43 | 0.07 | 85 | 85.2 | -27 | -27.0 | 11 | | 0 | KS | | |
| 18 | 14:00 | 59.10 | 0.05 | 82 | 82.4 | -27 | -27.4 | 11 | | 0 | KS | | |
| 19 | 14:00 | 60.74 | 0.05 | 85 | 84.8 | -27 | -27.1 | 11 | | 0 | KS | | |
| 20 | 14:00 | 54.05 | 0.05 | 83 | 83.5 | -27 | -27.0 | 11 | | 0 | MS | | |
| 21 | 14:00 | 48.40 | 0.02 | 85 | 85.3 | -27 | -27.1 | 11 | | 0 | MS | | |
| 22 | 14:00 | 43.36 | 0.02 | 93 | 92.5 | -27 | -26.8 | 11 | | 0 | MS | | |
| 23 | 14:00 | 0.00 | 0.00 | 85 | 84.7 | -27 | -27.3 | 11 | | 0 | MS | | |
| 24 | 14:00 | 13.17 | 0.00 | 86 | 86.1 | -27 | -26.8 | 11 | | 0 | MS | | |
| 25 | 14:00 | 58.48 | 0.05 | 83 | 83.1 | -27 | -27.3 | 11 | | 0 | MS | | |
| 26 | 14:00 | 21.17 | 0.02 | 83 | 83.2 | -27 | -27.4 | 11 | | 0 | MS | | |
| 27 | 14:00 | 39.43 | 0.02 | 84 | 84.3 | -27 | -27.4 | 11 | | 0 | MB | | |
| 28 | 14:00 | 55.19 | 0.05 | 84 | 84.2 | -27 | -27.1 | 11 | | 0 | MB | | |
| 29 | 14:00 | 47.76 | 0.02 | 87 | 87.2 | -26 | -26.9 | 11 | | 0 | MB | | |
| 30 | 14:00 | 36.52 | 0.02 | 89 | 89.6 | -25 | -25.3 | 11 | | 0 | MB | | |
| 31 | 14:00 | 69.43 | 0.05 | 88 | 88.2 | -27 | -27.1 | 11 | | 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 | 10/01/2020 | 7.60 | 10/01/2020 | 700.0 | 10/01/2020 | 10/05/2020 | | |
| 2 | 63.00 | 10/08/2020 | 7.80 | 10/08/2020 | 700.0 | 10/08/2020 | 10/12/2020 | | |
| 3 | 57.00 | 10/15/2020 | 7.90 | 10/15/2020 | 650.0 | 10/15/2020 | 10/19/2020 | | |
| 4 | 68.00 | 10/22/2020 | 7.80 | 10/22/2020 | 631.0 | 10/22/2020 | 10/26/2020 | | |
| 5 | 56.00 | 10/29/2020 | 7.90 | 10/29/2020 | 643.0 | 10/29/2020 | 11/03/2020 | | |

## No monthly injectate samples required.