**Facility Well Name** ONEOK (Hutchinson) #3 **UIC Permit #** KS-01-155-003 **Month** December **Year** 2021

**Submitted** 01/25/2022 **Approved** 01/28/2022 **KOLAR Document ID** 1612551

# Class I-V Injection Well Monthly Monitoring

## Summary of Monthly Report

**Number of days injection occurred:** 31

**Barrels per Day Maximum:** 21,000

| | | | 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** | 1,686 | 1.17 | 82 | 83 | -26.0 | -26.7 | 0 |
| **Monthly Maximum** | 2,267 | 1.57 | 88 | 89 | 0.0 | -2.3 | 0 |
| **Monthly Minimum** | 545 | 0.38 | 72 | 72 | -28.0 | -28.3 | 0 |
| **Monthly Total** | 52,255 | | | | | | 0 |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 95.70 | 67.89 | -0.90 | -28.50 |

**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 | 19:26 | 1,914.29 | 1.33 | 85 | 85.9 | -28 | -27.8 | 13 | | 0 | JE | | |
| 2 | 19:14 | 1,888.10 | 1.31 | 85 | 86.9 | -26 | -28.0 | 13 | | 0 | GB | | |
| 3 | 18:45 | 1,928.57 | 1.33 | 84 | 85.5 | -26 | -27.9 | 13 | | 0 | GB | | |
| 4 | 18:47 | 1,973.81 | 1.38 | 83 | 84.2 | -26 | -27.9 | 13 | | 0 | GB | | |
| 5 | 22:17 | 2,230.95 | 1.55 | 80 | 81.5 | -26 | -28.1 | 13 | | 0 | GB | | |
| 6 | 19:23 | 1,723.81 | 1.19 | 82 | 82.7 | -26 | -28.3 | 13 | | 0 | ZS | | |
| 7 | 23:30 | 2,266.67 | 1.57 | 80 | 80.9 | -26 | -28.0 | 13 | | 0 | ZS | | |
| 8 | 20:33 | 1,540.48 | 1.07 | 86 | 86.6 | -26 | -27.4 | 13 | | 0 | ZS | | |
| 9 | 18:57 | 1,711.90 | 1.19 | 86 | 88.7 | -26 | -27.7 | 13 | | 0 | CP | | |
| 10 | 18:32 | 1,111.90 | 0.76 | 88 | 89.2 | 0 | -2.3 | 13 | | 0 | CP | | |
| 11 | 18:07 | 545.24 | 0.38 | 80 | 80.0 | -27 | -27.6 | 13 | | 0 | CP | | |
| 12 | 18:45 | 1,919.05 | 1.33 | 84 | 85.3 | -26 | -27.3 | 13 | | 0 | CP | | |
| 13 | 18:19 | 1,828.57 | 1.26 | 85 | 85.9 | -26 | -27.1 | 13 | | 0 | CP | | |
| 14 | 18:12 | 1,926.19 | 1.33 | 86 | 87.1 | -27 | -27.0 | 13 | | 0 | CP | | |
| 15 | 18:13 | 1,900.00 | 1.31 | 80 | 81.2 | -26 | -27.2 | 13 | | 0 | CP | | |
| 16 | 18:26 | 1,792.86 | 1.24 | 77 | 77.6 | -27 | -27.2 | 13 | | 0 | SN | | |
| 17 | 18:28 | 1,828.57 | 1.26 | 75 | 75.8 | -27 | -27.1 | 13 | | 0 | JG | | |
| 18 | 18:26 | 1,821.43 | 1.26 | 72 | 72.1 | -27 | -27.5 | 13 | | 0 | JG | | |
| 19 | 18:39 | 1,840.48 | 1.29 | 72 | 72.6 | -27 | -27.2 | 13 | | 0 | JG | | |
| 20 | 18:49 | 1,792.86 | 1.24 | 82 | 82.7 | -27 | -27.1 | 13 | | 0 | JG | | |
| 21 | 18:23 | 1,723.81 | 1.19 | 78 | 77.5 | -27 | -27.3 | 13 | | 0 | JG | | |
| 22 | 18:32 | 1,719.05 | 1.19 | 83 | 83.5 | -27 | -27.3 | 13 | | 0 | JG | | |
| 23 | 19:25 | 1,538.10 | 1.07 | 83 | 82.2 | -28 | -27.5 | 13 | | 0 | JE | | |
| 24 | 20:18 | 1,533.33 | 1.07 | 83 | 85.5 | -28 | -28.0 | 13 | | 0 | JE | | |
| 25 | 19:37 | 1,533.33 | 1.07 | 82 | 82.4 | -28 | -27.4 | 13 | | 0 | JE | | |
| 26 | 18:44 | 1,354.76 | 0.95 | 85 | 85.1 | -28 | -27.1 | 13 | | 0 | JE | | |
| 27 | 19:03 | 1,490.48 | 1.02 | 80 | 80.8 | -28 | -27.3 | 13 | | 0 | JE | | |
| 28 | 18:52 | 1,464.29 | 1.02 | 80 | 81.1 | -28 | -27.2 | 13 | | 0 | JE | | |
| 29 | 20:31 | 1,561.90 | 1.10 | 80 | 80.0 | -28 | -27.3 | 13 | | 0 | JE | | |
| 30 | 18:48 | 1,380.95 | 0.95 | 85 | 84.4 | -27 | -27.0 | 13 | | 0 | ZS | | |
| 31 | 18:28 | 1,469.05 | 1.02 | 81 | 84.3 | -27 | -27.3 | 13 | | 0 | ZS | | |

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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 | 74.90 | 11/28/2021 | 7.58 | 11/28/2021 | 5,500.0 | 11/28/2021 | 12/02/2021 | | |
| 2 | 69.20 | 12/05/2021 | 6.62 | 12/05/2021 | 6,000.0 | 12/05/2021 | 01/10/2022 | | |
| 3 | 65.20 | 12/12/2021 | 6.60 | 12/12/2021 | 6,200.0 | 12/12/2021 | 01/10/2022 | | |
| 4 | 71.40 | 12/19/2021 | 7.52 | 12/19/2021 | 5,900.0 | 12/19/2021 | 01/10/2022 | | |
| 5 | 71.90 | 12/26/2021 | 7.63 | 12/26/2021 | 7,100.0 | 12/26/2021 | 01/10/2022 | | |

## No monthly injectate samples required.