**Facility Well Name** ONEOK (Hutchinson) #2 **UIC Permit #** KS-01-155-002 **Month** November **Year** 2022

**Submitted** 12/20/2022 **Approved** 12/28/2022 **KOLAR Document ID** 1676559

# Class I-V Injection Well Monthly Monitoring

## Summary of Monthly Report

**Number of days injection occurred:** 30

**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** | 1,461 | 1.01 | 80 | 81 | -17.8 | -17.5 | 0 |
| **Monthly Maximum** | 1,964 | 1.36 | 83 | 83 | -8.0 | -7.8 | 0 |
| **Monthly Minimum** | 810 | 0.57 | 78 | 78 | -27.0 | -27.1 | 0 |
| **Monthly Total** | 43,824 | | | | | | 0 |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 89.90 | 77.10 | 0.80 | -27.80 |

**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 | 19:23 | 809.52 | 0.57 | 82 | 82.5 | -27 | -27.1 | 16 | | 0 | JG | | |
| 2 | 19:50 | 852.38 | 0.60 | 80 | 79.9 | -26 | -25.9 | 16 | | 0 | JG | | |
| 3 | 19:39 | 1,180.95 | 0.81 | 80 | 80.8 | -14 | -14.2 | 17 | | 0 | GB | | |
| 4 | 19:00 | 1,600.00 | 1.12 | 80 | 80.7 | -26 | -25.2 | 17 | | 0 | GB | | |
| 5 | 20:00 | 1,630.95 | 1.14 | 82 | 83.4 | -26 | -26.6 | 17 | | 0 | ZS | | |
| 6 | 18:12 | 1,557.14 | 1.07 | 81 | 81.8 | -27 | -26.9 | 17 | | 0 | GB | | |
| 7 | 21:17 | 1,840.48 | 1.29 | 80 | 80.1 | -27 | -26.9 | 17 | | 0 | ZS | | |
| 8 | 20:16 | 1,585.71 | 1.10 | 80 | 80.5 | -27 | -26.7 | 17 | | 0 | GB | | |
| 9 | 19:10 | 1,621.43 | 1.12 | 79 | 79.0 | -27 | -26.5 | 17 | | 0 | GB | | |
| 10 | 18:40 | 1,785.71 | 1.24 | 80 | 80.4 | -22 | -21.9 | 17 | | 0 | CP | | |
| 11 | 18:21 | 1,954.76 | 1.36 | 80 | 81.0 | -21 | -20.3 | 16 | | 0 | CP | | |
| 12 | 18:30 | 1,914.29 | 1.33 | 82 | 81.7 | -24 | -24.1 | 16 | | 0 | CP | | |
| 13 | 18:34 | 1,964.29 | 1.36 | 83 | 82.5 | -22 | -22.3 | 16 | | 0 | CP | | |
| 14 | 18:30 | 1,523.81 | 1.05 | 81 | 81.9 | -18 | -17.9 | 16 | | 0 | CP | | |
| 15 | 18:14 | 1,683.33 | 1.17 | 83 | 82.6 | -14 | -14.1 | 16 | | 0 | SN | | |
| 16 | 18:24 | 1,826.19 | 1.26 | 82 | 82.1 | -18 | -18.4 | 16 | | 0 | SN | | |
| 17 | 19:08 | 1,888.10 | 1.31 | 82 | 82.0 | -17 | -16.8 | 16 | | 0 | SN | | |
| 18 | 18:43 | 1,602.38 | 1.12 | 82 | 82.8 | -14 | -12.3 | 16 | | 0 | SN | | |
| 19 | 18:26 | 1,304.76 | 0.90 | 83 | 83.4 | -19 | -17.3 | 16 | | 0 | SN | | |
| 20 | 18:14 | 1,376.19 | 0.95 | 78 | 78.1 | -13 | -13.5 | 16 | | 0 | SN | | |
| 21 | 23:26 | 1,635.71 | 1.14 | 78 | 78.8 | -8 | -7.9 | 16 | | 0 | JG | | |
| 22 | 21:42 | 1,164.29 | 0.81 | 79 | 78.4 | -11 | -9.4 | 16 | | 0 | JG | | |
| 23 | 18:04 | 1,176.19 | 0.81 | 78 | 77.5 | -10 | -9.3 | 16 | | 0 | JG | | |
| 24 | 19:01 | 1,033.33 | 0.71 | 78 | 78.1 | -8 | -7.8 | 16 | | 0 | JG | | |
| 25 | 20:10 | 1,307.14 | 0.90 | 79 | 79.1 | -10 | -9.7 | 16 | | 0 | JG | | |
| 26 | 20:32 | 1,319.05 | 0.90 | 78 | 78.0 | -10 | -9.1 | 17 | | 0 | GB | | |
| 27 | 18:47 | 1,102.38 | 0.76 | 78 | 78.8 | -10 | -9.9 | 17 | | 0 | GB | | |
| 28 | 19:09 | 1,076.19 | 0.74 | 80 | 80.6 | -8 | -8.2 | 17 | | 0 | GB | | |
| 29 | 19:17 | 1,085.71 | 0.76 | 78 | 79.2 | -15 | -15.1 | 17 | | 0 | GB | | |
| 30 | 18:55 | 1,421.43 | 0.98 | 80 | 79.4 | -16 | -15.0 | 17 | | 0 | GB | | |
| 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 | 67.50 | 11/06/2022 | 7.67 | 11/06/2022 | 6,750.0 | 11/06/2022 | 12/02/2022 | | |
| 2 | 72.00 | 11/13/2022 | 6.92 | 11/13/2022 | 6,250.0 | 11/13/2022 | 12/02/2022 | | |
| 3 | 68.60 | 11/20/2022 | 7.82 | 11/20/2022 | 9,500.0 | 11/20/2022 | 12/02/2022 | | |
| 4 | 64.60 | 11/27/2022 | 6.46 | 11/27/2022 | 7,800.0 | 11/27/2022 | 12/08/2022 | | |
| 5 | | | | | | | | | |

## No monthly injectate samples required.