**Facility Well Name** ONEOK (Hutchinson) #2 **UIC Permit #** KS-01-155-002 **Month** November **Year** 2021

**Submitted** 12/16/2021 **Approved** 12/28/2021 **KOLAR Document ID** 1602885

# Class I-V Injection Well Monthly Monitoring

## Summary of Monthly Report

**Number of days injection occurred:** 13

**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** | 782 | 0.54 | 82 | 83 | -9.0 | -7.9 | |
| **Monthly Maximum** | 2,069 | 1.43 | 88 | 89 | -1.0 | 0.0 | |
| **Monthly Minimum** | 0 | 0.00 | 75 | 74 | -24.0 | -22.8 | |
| **Monthly Total** | 23,455 | | | | | | |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 92.20 | 74.40 | 0.70 | -26.50 |

**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 | 22:44 | 0.00 | 0.00 | 80 | 80.0 | -15 | -12.1 | 15 | | | JE | | |
| 2 | 19:23 | 0.00 | 0.00 | 80 | 79.8 | -12 | -10.1 | 15 | | | JE | | |
| 3 | 19:26 | 0.00 | 0.00 | 80 | 81.0 | -10 | -8.5 | 15 | | | JE | | |
| 4 | 19:35 | 0.00 | 0.00 | 81 | 82.2 | -7 | -7.0 | 15 | | | GB | | |
| 5 | 18:42 | 0.00 | 0.00 | 82 | 82.7 | -7 | -5.9 | 15 | | | GB | | |
| 6 | 18:16 | 0.00 | 0.00 | 85 | 85.5 | -6 | -4.9 | 15 | | | GB | | |
| 7 | 18:50 | 0.00 | 0.00 | 86 | 86.4 | -4 | -3.8 | 15 | | | GB | | |
| 8 | 19:17 | 0.00 | 0.00 | 84 | 84.9 | -4 | -3.1 | 15 | | | GB | | |
| 9 | 19:07 | 0.00 | 0.00 | 83 | 83.1 | -3 | -2.0 | 15 | | | GB | | |
| 10 | 20:06 | 0.00 | 0.00 | 82 | 82.4 | -1 | 0.0 | 15 | | | GB | | |
| 11 | 19:20 | 447.62 | 0.31 | 76 | 77.1 | -11 | -11.0 | 15 | | | JE | | |
| 12 | 20:42 | 2,069.05 | 1.43 | 75 | 74.4 | -12 | -11.2 | 15 | | | JE | | |
| 13 | 18:53 | 1,809.52 | 1.26 | 80 | 81.0 | -12 | -10.7 | 15 | | | JE | | |
| 14 | 18:36 | 1,916.67 | 1.33 | 80 | 80.8 | -12 | -10.6 | 15 | | | JE | | |
| 15 | 19:05 | 1,976.19 | 1.38 | 82 | 83.7 | -12 | -11.1 | 15 | | | JE | | |
| 16 | 19:58 | 2,009.52 | 1.40 | 80 | 82.6 | -12 | -11.2 | 15 | | | JE | | |
| 17 | 19:08 | 1,866.67 | 1.29 | 78 | 78.5 | -12 | -11.0 | 15 | | | JE | | |
| 18 | 18:44 | 1,890.48 | 1.31 | 80 | 80.0 | -12 | -11.2 | 14 | | | SN | | |
| 19 | 18:35 | 1,923.81 | 1.33 | 80 | 81.2 | -14 | -12.7 | 14 | | | SN | | |
| 20 | 18:18 | 1,916.67 | 1.33 | 81 | 81.7 | -14 | -12.6 | 14 | | | SN | | |
| 21 | 18:48 | 1,992.86 | 1.38 | 81 | 81.5 | -18 | -16.9 | 14 | | | SN | | |
| 22 | 18:20 | 1,919.05 | 1.33 | 82 | 82.4 | -19 | -18.9 | 14 | | | SN | | |
| 23 | 19:06 | 1,716.67 | 1.19 | 85 | 86.0 | -24 | -22.8 | 14 | | | SN | | |
| 24 | 18:29 | 0.00 | 0.00 | 85 | 85.5 | -10 | -8.5 | 14 | | | SN | | |
| 25 | 18:44 | 0.00 | 0.00 | 82 | 82.4 | -1 | 0.0 | 14 | | | JE | | |
| 26 | 19:07 | 0.00 | 0.00 | 85 | 86.4 | -1 | 0.0 | 14 | | | JE | | |
| 27 | 19:44 | 0.00 | 0.00 | 86 | 87.2 | -1 | 0.0 | 14 | | | JE | | |
| 28 | 17:56 | 0.00 | 0.00 | 85 | 85.8 | -1 | 0.0 | 14 | | | JE | | |
| 29 | 18:50 | 0.00 | 0.00 | 88 | 88.8 | -1 | 0.0 | 14 | | | JE | | |
| 30 | 18:52 | 0.00 | 0.00 | 85 | 85.6 | -1 | 0.0 | 14 | | | JE | | |
| 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 | | | | | | | | | |
| 2 | 71.80 | 11/11/2021 | 8.02 | 11/11/2021 | 5,620.0 | 11/11/2021 | 12/03/2021 | | |
| 3 | 73.80 | 11/14/2021 | 7.61 | 11/14/2021 | 5,500.0 | 11/14/2021 | 12/03/2021 | | |
| 4 | 74.30 | 11/21/2021 | 7.09 | 11/21/2021 | 5,470.0 | 11/21/2021 | 12/03/2021 | | |
| 5 | | | | | | | | | |

## No monthly injectate samples required.