**Facility Well Name** ONEOK (Bushton) #4 **UIC Permit #** KS-01-053-003 **Month** September **Year** 2022

**Submitted** 10/24/2022 **Approved** 10/28/2022 **KOLAR Document ID** 1670695

# Class I-V Injection Well Monthly Monitoring

## Summary of Monthly Report

**Number of days injection occurred:** 13

**Barrels per Day Maximum:** 30,952

| | | | 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** | 83 | 0.06 | 79 | 79 | -22.9 | -21.8 | 0 |
| **Monthly Maximum** | 423 | 0.29 | 84 | 85 | -21.0 | -20.0 | 0 |
| **Monthly Minimum** | 0 | 0.00 | 73 | 73 | -27.0 | -25.8 | 0 |
| **Monthly Total** | 2,502 | | | | | | 0 |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 90.48 | 72.60 | -18.72 | -26.14 |

**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 | 06:02 | 1.00 | 0.00 | 79 | 79.4 | -22 | -21.2 | 15 | | 0 | JK | | |
| 2 | 06:10 | 0.00 | 0.00 | 80 | 79.5 | -22 | -21.0 | 15 | | 0 | JK | | |
| 3 | 06:53 | 1.00 | 0.00 | 78 | 79.0 | -23 | -21.7 | 15 | | 0 | JK | | |
| 4 | 05:49 | 0.00 | 0.00 | 78 | 79.1 | -23 | -21.2 | 15 | | 0 | JK | | |
| 5 | 07:25 | 0.00 | 0.00 | 80 | 79.9 | -23 | -21.8 | 15 | | 0 | JK | | |
| 6 | 06:07 | 1.00 | 0.00 | 82 | 81.1 | -22 | -20.9 | 15 | | 0 | JK | | |
| 7 | 05:58 | 0.00 | 0.00 | 82 | 81.2 | -22 | -20.8 | 15 | | 0 | JK | | |
| 8 | 05:38 | 0.00 | 0.00 | 80 | 80.6 | -22 | -20.8 | 15 | | 0 | ZH | | |
| 9 | 05:55 | 1.00 | 0.00 | 80 | 80.2 | -22 | -20.5 | 15 | | 0 | ZH | | |
| 10 | 05:45 | 0.00 | 0.00 | 79 | 79.3 | -22 | -20.7 | 15 | | 0 | DL | | |
| 11 | 06:53 | 0.00 | 0.00 | 79 | 80.0 | -22 | -21.0 | 15 | | 0 | ZH | | |
| 12 | 06:04 | 0.00 | 0.00 | 81 | 81.1 | -22 | -20.7 | 15 | | 0 | ZH | | |
| 13 | 06:29 | 0.00 | 0.00 | 82 | 83.1 | -22 | -20.4 | 15 | | 0 | ZH | | |
| 14 | 05:44 | 0.00 | 0.00 | 84 | 84.9 | -21 | -20.3 | 15 | | 0 | DL | | |
| 15 | 05:45 | 0.00 | 0.00 | 81 | 80.9 | -21 | -20.4 | 16 | | 0 | RZ | | |
| 16 | 05:42 | 1.00 | 0.00 | 80 | 79.9 | -22 | -20.3 | 15 | | 0 | RZ | | |
| 17 | 05:58 | 0.00 | 0.00 | 81 | 81.1 | -21 | -20.1 | 16 | | 0 | RZ | | |
| 18 | 05:48 | 0.00 | 0.00 | 80 | 80.3 | -21 | -20.0 | 16 | | 0 | RZ | | |
| 19 | 05:59 | 0.00 | 0.00 | 80 | 80.4 | -21 | -20.1 | 16 | | 0 | RZ | | |
| 20 | 06:10 | 0.00 | 0.00 | 80 | 80.7 | -21 | -20.0 | 16 | | 0 | RZ | | |
| 21 | 05:44 | 1.93 | 0.00 | 81 | 81.0 | -21 | -20.0 | 16 | | 0 | RZ | | |
| 22 | 06:18 | 0.00 | 0.00 | 75 | 74.5 | -21 | -20.3 | 16 | | 0 | KR | | |
| 23 | 05:40 | 1.00 | 0.00 | 75 | 75.0 | -21 | -20.2 | 15 | | 0 | KR | | |
| 24 | 05:44 | 0.00 | 0.00 | 75 | 73.9 | -27 | -25.6 | 15 | | 0 | KR | | |
| 25 | 06:21 | 385.00 | 0.26 | 75 | 74.8 | -26 | -25.6 | 16 | | 0 | RZ | | |
| 26 | 05:41 | 423.00 | 0.29 | 73 | 73.2 | -27 | -25.6 | 15 | | 0 | KR | | |
| 27 | 05:30 | 421.00 | 0.29 | 75 | 74.4 | -27 | -25.4 | 15 | | 0 | KR | | |
| 28 | 05:59 | 422.00 | 0.29 | 74 | 73.9 | -27 | -25.8 | 15 | | 0 | KR | | |
| 29 | 06:08 | 422.00 | 0.29 | 73 | 73.1 | -27 | -25.7 | 15 | | 0 | JK | | |
| 30 | 06:32 | 421.00 | 0.29 | 75 | 74.8 | -27 | -25.5 | 15 | | 0 | JK | | |
| 31 | | | | | | | | | | | | | |

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# Weekly Injectate Samples

**Kansas Lab Certificate Number** E-10146

| **Week** | **Temperature** | | **pH** | | **Chloride** | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Degrees Fahrenheit | Date | Standard Units | Date | Cl concentration (mg/l) | Date Sample Collected | Date Sampl Analysed | | |
| 1 | 76.80 | 09/05/2022 | 6.94 | 09/05/2022 | 195,000.0 | 09/05/2022 | 09/13/2022 | | |
| 2 | 70.30 | 09/11/2022 | 6.87 | 09/11/2022 | 187,000.0 | 09/11/2022 | 09/29/2022 | | |
| 3 | 77.10 | 09/18/2022 | 6.74 | 09/18/2022 | 192,000.0 | 09/18/2022 | 09/30/2022 | | |
| 4 | 63.30 | 09/25/2022 | 6.82 | 09/25/2022 | 102,000.0 | 09/25/2022 | 10/05/2022 | | |
| 5 | | | | | | | | | |

## No monthly injectate samples required.

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# Quarterly Injectate Samples

**Quarter** 3
**Date Sample Collected** 08/03/2022
**Kansas Lab Certificate Number** E-10146
**Lab Name** Pace Analytical-Salina

*These samples shall be representative of injection activity and shall therefore be collected on days of injection.*

| Constituent | Value | Units |
|---|---|---|
| Benzene | 0.016 | mg/l |
| Calcium | 2,760.000 | mg/l |
| Conductivity | 264,000.000 | Mmhos |
| Iron | 5.000 | mg/l |
| Magnesium | 308.000 | mg/l |
| Sulfate | 2,760.000 | mg/l |
| Total Alkalinity as CaCO3 | 63.000 | mg/l |
| Total Dissolved Solids | 327,000.000 | mg/l |
| Total Hardness as CaCO3 | 8,160.000 | mg/l |
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