**Facility Well Name** ONEOK (Bushton) #5 **UIC Permit #** KS-01-053-004 **Month** March **Year** 2024

**Submitted** 04/23/2024 **Approved** 04/25/2024 **KOLAR Document ID** 1774490

# Class I-V Injection Well Monthly Monitoring

## Summary of Monthly Report

**Number of days injection occurred:** 31

**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** | 2,761 | 1.92 | 78 | 78 | -26.9 | -26.8 | |
| **Monthly Maximum** | 3,969 | 2.76 | 90 | 90 | -26.0 | -26.0 | |
| **Monthly Minimum** | 765 | 0.52 | 72 | 71 | -28.0 | -27.4 | |
| **Monthly Total** | 85,577 | | | | | | |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 95.16 | 69.60 | -1.15 | -27.51 |

**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 | 05:30 | 1,341.81 | 0.93 | 74 | 73.7 | -27 | -26.7 | 10 | | | TC | | |
| 2 | 05:38 | 765.26 | 0.52 | 77 | 76.2 | -27 | -26.6 | 10 | | | TC | | |
| 3 | 06:12 | 1,220.12 | 0.86 | 78 | 78.2 | -27 | -26.2 | 10 | | | JC | | |
| 4 | 06:38 | 2,413.83 | 1.67 | 81 | 81.1 | -27 | -26.6 | 10 | | | JC | | |
| 5 | 06:11 | 2,153.52 | 1.50 | 84 | 85.6 | -27 | -27.0 | 10 | | | JC | | |
| 6 | 06:37 | 1,748.57 | 1.21 | 80 | 80.1 | -27 | -27.0 | 10 | | | JC | | |
| 7 | 05:43 | 2,836.52 | 1.98 | 80 | 78.6 | -27 | -26.5 | 10 | | | DL | | |
| 8 | 05:49 | 3,098.02 | 2.14 | 74 | 74.3 | -27 | -26.8 | 10 | | | BS | | |
| 9 | 06:47 | 3,074.50 | 2.14 | 90 | 90.0 | -28 | -27.3 | 10 | | | BS | | |
| 10 | 06:51 | 3,021.00 | 2.10 | 88 | 88.8 | -27 | -27.0 | 10 | | | NZ | | |
| 11 | 05:16 | 3,346.88 | 2.33 | 76 | 76.4 | -27 | -26.9 | 10 | | | BS | | |
| 12 | 05:47 | 2,745.62 | 1.90 | 75 | 75.2 | -27 | -26.4 | 10 | | | BS | | |
| 13 | 05:37 | 1,874.31 | 1.31 | 80 | 80.4 | -27 | -26.6 | 10 | | | BS | | |
| 14 | 05:52 | 3,488.00 | 2.43 | 79 | 78.0 | -27 | -26.5 | 10 | | | JC | | |
| 15 | 06:47 | 3,095.60 | 2.14 | 78 | 77.3 | -28 | -27.3 | 10 | | | JC | | |
| 16 | 06:11 | 3,134.98 | 2.17 | 81 | 80.8 | -27 | -26.9 | 10 | | | JC | | |
| 17 | 06:43 | 1,463.10 | 1.02 | 80 | 80.9 | -27 | -27.2 | 10 | | | JC | | |
| 18 | 05:57 | 2,101.12 | 1.45 | 86 | 85.7 | -26 | -27.4 | 10 | | | KR | | |
| 19 | 05:29 | 2,013.50 | 1.40 | 85 | 84.5 | -27 | -26.7 | 10 | | | KK | | |
| 20 | 05:54 | 3,791.50 | 2.64 | 84 | 83.1 | -27 | -26.7 | 10 | | | KR | | |
| 21 | 05:23 | 2,349.43 | 1.64 | 81 | 81.1 | -26 | -26.9 | 10 | | | TC | | |
| 22 | 05:23 | 3,526.02 | 2.45 | 80 | 79.4 | -27 | -26.4 | 10 | | | DH | | |
| 23 | 05:36 | 3,969.00 | 2.76 | 72 | 72.8 | -27 | -26.5 | 10 | | | TC | | |
| 24 | 05:31 | 3,599.07 | 2.50 | 72 | 73.7 | -26 | -26.5 | 10 | | | TC | | |
| 25 | 05:28 | 3,429.12 | 2.38 | 72 | 71.0 | -27 | -26.0 | 10 | | | DH | | |
| 26 | 06:01 | 2,855.88 | 1.98 | 78 | 77.4 | -27 | -26.5 | 10 | | | TC | | |
| 27 | 06:19 | 3,636.69 | 2.52 | 74 | 73.8 | -27 | -27.1 | 10 | | | DH | | |
| 28 | 05:49 | 2,823.83 | 1.95 | 74 | 74.0 | -27 | -27.0 | 10 | | | GS | | |
| 29 | 05:53 | 3,125.48 | 2.17 | 73 | 72.9 | -27 | -26.8 | 10 | | | GS | | |
| 30 | 05:27 | 3,917.93 | 2.71 | 72 | 73.7 | -26 | -27.0 | 10 | | | GS | | |
| 31 | 05:54 | 3,616.90 | 2.50 | 75 | 74.0 | -27 | -26.8 | 10 | | | GS | | |

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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 | 72.80 | 03/03/2024 | 7.66 | 03/03/2024 | 1,820.0 | 03/03/2024 | 03/25/2024 | | |
| 2 | 71.10 | 03/10/2024 | 8.69 | 03/10/2024 | 1,260.0 | 03/10/2024 | 03/25/2024 | | |
| 3 | 70.30 | 03/17/2024 | 7.25 | 03/17/2024 | 1,500.0 | 03/17/2024 | 03/25/2024 | | |
| 4 | 74.30 | 03/24/2024 | 7.69 | 03/24/2024 | 1,450.0 | 03/24/2024 | 04/08/2024 | | |
| 5 | 80.30 | 03/31/2024 | 7.63 | 03/31/2024 | 1,470.0 | 03/31/2024 | 04/08/2024 | | |

## No monthly injectate samples required.

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# Quarterly Injectate Samples

**Quarter** 1
**Date Sample Collected** 02/08/2024
**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 | 0.002 | mg/l |
| Calcium | 315.000 | mg/l |
| Conductivity | 9,530.000 | Mmhos |
| Iron | 1.000 | mg/l |
| Magnesium | 48.000 | mg/l |
| Sulfate | 820.000 | mg/l |
| Total Alkalinity as CaCO3 | 177.000 | mg/l |
| Total Dissolved Solids | 4,040.000 | mg/l |
| Total Hardness as CaCO3 | 982.000 | mg/l |
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