**Facility Well Name** Kansas Ethanol #5 **UIC Permit #** KS-01-159-007 **Month** January **Year** 2024

**Submitted** 02/20/2024 **Approved** 03/04/2024 **KOLAR Document ID** 1757484

# Class I-V Injection Well Monthly Monitoring

## Summary of Monthly Report

**Number of days injection occurred:** 31

**Barrels per Day Maximum:** 13,714

| | | | 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** | 4,389 | 3.04 | 68 | 70 | -23.9 | -19.9 | |
| **Monthly Maximum** | 5,333 | 3.12 | 70 | 72 | -23.0 | -18.8 | |
| **Monthly Minimum** | 3,762 | 2.69 | 66 | 66 | -25.0 | -21.1 | |
| **Monthly Total** | 136,048 | | | | | | |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 72.70 | 65.50 | -18.00 | -21.80 |

**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 | Conduc-tivity | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 09:33 | 5,333.33 | 2.98 | 70 | 70.6 | -24 | -20.0 | 10 | N/A | | AA | 2,216.00 | |
| 2 | 07:15 | 3,809.52 | 2.98 | 69 | 70.2 | -24 | -20.2 | 10 | N/A | | BF | 2,147.00 | |
| 3 | 07:15 | 4,285.71 | 3.00 | 69 | 70.7 | -24 | -19.9 | 10 | N/A | | BF | 2,060.00 | |
| 4 | 07:15 | 3,952.38 | 2.69 | 69 | 70.7 | -25 | -20.5 | 10 | N/A | | BF | 2,249.00 | |
| 5 | 07:15 | 4,333.33 | 3.00 | 69 | 70.4 | -24 | -19.9 | 10 | N/A | | BF | 2,131.00 | |
| 6 | 09:28 | 4,785.71 | 3.02 | 69 | 71.1 | -23 | -19.5 | 10 | N/A | | AA | 2,114.00 | |
| 7 | 09:43 | 4,333.33 | 3.00 | 69 | 70.3 | -24 | -20.2 | 10 | N/A | | AA | 2,216.00 | |
| 8 | 07:15 | 3,761.90 | 2.93 | 69 | 70.3 | -24 | -20.0 | 10 | N/A | | BF | 2,111.00 | |
| 9 | 08:30 | 4,642.86 | 3.10 | 69 | 67.8 | -24 | -20.3 | 10 | N/A | | BF | 2,267.00 | |
| 10 | 07:15 | 4,261.90 | 3.10 | 68 | 69.1 | -23 | -19.8 | 10 | N/A | | BF | 2,091.00 | |
| 11 | 07:15 | 4,428.57 | 3.07 | 68 | 70.0 | -23 | -19.6 | 10 | N/A | | BF | 2,127.00 | |
| 12 | 08:00 | 4,571.43 | 3.10 | 68 | 68.5 | -23 | -20.1 | 10 | N/A | | RM | 2,000.00 | |
| 13 | 09:40 | 4,738.10 | 3.10 | 68 | 67.4 | -24 | -20.7 | 10 | N/A | | LM | 2,197.00 | |
| 14 | 08:45 | 4,380.95 | 3.12 | 66 | 66.3 | -24 | -20.9 | 9 | N/A | | DW | 2,114.00 | |
| 15 | 07:15 | 4,023.81 | 3.10 | 66 | 66.9 | -24 | -20.9 | 9 | N/A | | BF | 2,060.00 | |
| 16 | 07:15 | 4,452.38 | 3.10 | 66 | 65.8 | -24 | -21.1 | 9 | N/A | | BF | 2,121.00 | |
| 17 | 07:15 | 4,500.00 | 3.07 | 66 | 67.8 | -24 | -20.3 | 9 | N/A | | BF | 2,016.00 | |
| 18 | 07:15 | 4,428.57 | 3.10 | 67 | 69.4 | -24 | -19.8 | 9 | N/A | | BF | 2,066.00 | |
| 19 | 07:15 | 4,404.76 | 3.10 | 67 | 67.9 | -24 | -20.1 | 9 | N/A | | BF | 2,040.00 | |
| 20 | 08:38 | 4,833.33 | 3.07 | 67 | 67.2 | -24 | -20.9 | 9 | N/A | | JP | 1,780.00 | |
| 21 | 08:30 | 4,357.14 | 3.05 | 67 | 67.1 | -24 | -20.6 | 9 | N/A | | JP | 2,057.00 | |
| 22 | 07:15 | 4,119.05 | 3.07 | 68 | 69.2 | -24 | -19.9 | 9 | N/A | | BF | 2,111.00 | |
| 23 | 07:15 | 4,357.14 | 3.02 | 68 | 70.5 | -24 | -19.5 | 9 | N/A | | BF | 1,891.00 | |
| 24 | 08:45 | 4,619.05 | 3.00 | 68 | 70.9 | -24 | -19.3 | 9 | N/A | | BF | 1,970.00 | |
| 25 | 07:15 | 4,142.86 | 3.00 | 68 | 71.3 | -24 | -19.1 | 9 | N/A | | BF | 2,161.00 | |
| 26 | 07:15 | 4,309.52 | 3.00 | 68 | 71.4 | -24 | -19.2 | 10 | N/A | | BF | 1,944.00 | |
| 27 | 08:20 | 4,666.67 | 3.07 | 68 | 70.5 | -23 | -19.5 | 10 | N/A | | BH | 1,783.00 | |
| 28 | 07:40 | 4,238.10 | 3.07 | 68 | 70.7 | -24 | -19.5 | 10 | N/A | | BH | 1,940.00 | |
| 29 | 07:15 | 4,285.71 | 3.07 | 68 | 71.6 | -24 | -19.1 | 10 | N/A | | BF | 1,868.00 | |
| 30 | 07:15 | 4,333.33 | 3.02 | 69 | 72.3 | -24 | -18.8 | 10 | N/A | | BF | 1,926.00 | |
| 31 | 07:15 | 4,357.14 | 3.02 | 69 | 72.3 | -24 | -19.1 | 10 | N/A | | BF | 1,980.00 | |

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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 | 60.00 | 01/03/2024 | 7.77 | 01/03/2024 | 300.0 | 01/03/2024 | 01/10/2024 | | |
| 2 | 58.30 | 01/10/2024 | 8.34 | 01/10/2024 | 315.0 | 01/10/2024 | 01/12/2024 | | |
| 3 | 58.40 | 01/17/2024 | 7.92 | 01/17/2024 | 295.0 | 01/17/2024 | 01/23/2024 | | |
| 4 | 57.40 | 01/24/2024 | 7.90 | 01/24/2024 | 325.0 | 01/24/2024 | 01/30/2024 | | |
| 5 | 64.30 | 01/31/2024 | 7.91 | 01/31/2024 | 300.0 | 01/31/2024 | 02/01/2024 | | |

## No monthly injectate samples required.