**Facility Well Name** Holly Frontier #1 **UIC Permit #** KS-01-115-001 **Month** April **Year** 2022

**Submitted** 05/25/2022 **Approved** 05/31/2022 **KOLAR Document ID** 1645239

# Class I-V Injection Well Monthly Monitoring

## Summary of Monthly Report

**Number of days injection occurred:** 30

**Barrels per Day Maximum:** 6,167

| | | | 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** | 1,174 | 0.83 | 136 | 136 | -27.0 | -25.7 | |
| **Monthly Maximum** | 1,429 | 1.10 | 158 | 157 | -26.0 | -25.0 | |
| **Monthly Minimum** | 553 | 0.38 | 119 | 119 | -28.0 | -26.4 | |
| **Monthly Total** | 35,213 | | | | | | |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 159.10 | 116.00 | -24.70 | -26.60 |

**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 | 07:00 | 1,374.26 | 1.02 | 150 | 146.8 | -27 | -25.3 | 21 | | | BC | | |
| 2 | 09:30 | 1,290.29 | 1.02 | 150 | 151.1 | -27 | -25.2 | 22 | | | BC | | |
| 3 | 07:40 | 1,276.36 | 0.60 | 150 | 147.9 | -27 | -25.4 | 21 | | | SW | | |
| 4 | 07:05 | 1,219.36 | 0.90 | 158 | 156.5 | -26 | -25.0 | 22 | | | SW | | |
| 5 | 07:20 | 1,154.62 | 0.76 | 148 | 145.9 | -26 | -25.4 | 21 | | | SW | | |
| 6 | 10:45 | 822.50 | 0.98 | 135 | 133.9 | -27 | -25.8 | 20 | | | SW | | |
| 7 | 08:00 | 1,275.26 | 0.95 | 135 | 133.1 | -27 | -25.7 | 20 | | | BC | | |
| 8 | 09:15 | 756.43 | 0.38 | 125 | 124.1 | -27 | -26.0 | 18 | | | BC | | |
| 9 | 08:30 | 755.67 | 0.40 | 130 | 126.3 | -27 | -25.9 | 19 | | | BC | | |
| 10 | 08:30 | 723.57 | 0.83 | 130 | 131.7 | -27 | -25.7 | 19 | | | BC | | |
| 11 | 07:25 | 1,162.81 | 0.88 | 132 | 130.8 | -27 | -25.9 | 18 | | | SW | | |
| 12 | 07:25 | 1,275.36 | 0.90 | 145 | 141.2 | -27 | -25.5 | 20 | | | SW | | |
| 13 | 10:40 | 1,261.90 | 0.88 | 138 | 135.6 | -27 | -25.7 | 20 | | | SW | | |
| 14 | 07:10 | 1,420.10 | 1.05 | 140 | 139.0 | -27 | -25.5 | 20 | | | SW | | |
| 15 | 08:30 | 1,409.21 | 1.02 | 140 | 142.2 | -27 | -25.4 | 21 | | | BC | | |
| 16 | 07:45 | 1,386.86 | 1.00 | 130 | 132.4 | -27 | -25.8 | 20 | | | BC | | |
| 17 | 10:15 | 1,382.02 | 0.67 | 140 | 135.0 | -27 | -25.8 | 20 | | | BC | | |
| 18 | 09:00 | 1,333.29 | 1.02 | 130 | 133.7 | -27 | -25.7 | 20 | | | BC | | |
| 19 | 07:25 | 1,417.83 | 0.86 | 138 | 136.9 | -27 | -25.6 | 20 | | | SW | | |
| 20 | 10:50 | 1,415.38 | 1.02 | 135 | 134.6 | -27 | -25.6 | 20 | | | SW | | |
| 21 | 07:05 | 1,408.88 | 1.10 | 148 | 145.4 | -27 | -25.4 | 21 | | | SW | | |
| 22 | 07:05 | 1,247.33 | 1.02 | 145 | 143.2 | -27 | -25.3 | 21 | | | SW | | |
| 23 | 07:10 | 553.33 | 0.43 | 119 | 118.9 | -27 | -26.4 | 17 | | | SW | | |
| 24 | 07:30 | 833.62 | 0.55 | 125 | 120.5 | -27 | -26.2 | 17 | | | SW | | |
| 25 | 09:15 | 1,018.31 | 0.64 | 120 | 122.6 | -28 | -26.2 | 18 | | | BC | | |
| 26 | 10:30 | 1,146.60 | 0.76 | 130 | 130.8 | -28 | -25.8 | 19 | | | BC | | |
| 27 | 10:45 | 1,175.31 | 0.95 | 130 | 132.3 | -27 | -25.6 | 19 | | | SW | | |
| 28 | 07:50 | 1,174.45 | 0.95 | 138 | 135.3 | -27 | -25.7 | 20 | | | SW | | |
| 29 | 07:20 | 1,113.02 | 0.45 | 122 | 130.2 | -27 | -25.9 | 19 | | | SW | | |
| 30 | 07:15 | 1,429.38 | 0.74 | 132 | 131.0 | -27 | -25.6 | 19 | | | SW | | |
| 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 | 104.28 | 04/06/2022 | 7.50 | 04/06/2022 | 164.0 | 04/06/2022 | 04/08/2022 | | |
| 2 | 105.07 | 04/13/2022 | 8.40 | 04/13/2022 | 312.0 | 04/13/2022 | 04/19/2022 | | |
| 3 | 107.70 | 04/20/2022 | 8.50 | 04/20/2022 | 313.0 | 04/20/2022 | 04/22/2022 | | |
| 4 | 106.70 | 04/27/2022 | 6.90 | 04/27/2022 | 345.0 | 04/27/2022 | 05/02/2022 | | |
| 5 | | | | | | | | | |

## No monthly injectate samples required.