**Facility Well Name** Lakin #1 **UIC Permit #** KS-05-093-002 **Month** February **Year** 2024

**Submitted** 03/04/2024 **Approved** 03/04/2024 **KOLAR Document ID** 1766199

# Class I-V Injection Well Monthly Monitoring

## Summary of Monthly Report

**Number of days injection occurred:** 29

**Barrels per Day Maximum:** 4,762

| | | | 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** | 970 | 0.99 | 157 | 146 | -2.3 | -2.9 | |
| **Monthly Maximum** | 1,619 | 4.88 | 170 | 159 | 2.0 | -1.4 | |
| **Monthly Minimum** | 405 | 0.00 | 150 | 132 | -20.0 | -7.7 | |
| **Monthly Total** | 28,143 | | | | | | |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 160.00 | 132.00 | -1.44 | -7.7 |

**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 | 07:54 | 976.19 | 0.00 | 150 | 150.0 | 2 | -1.6 | 28 | | | JG | | |
| 2 | 08:41 | 1,000.00 | 0.00 | 150 | 146.0 | 2 | -1.6 | 28 | | | JG | | |
| 3 | 07:47 | 1,023.81 | 0.00 | 160 | 150.0 | 2 | -1.5 | 29 | | | DW | | |
| 4 | 07:28 | 619.05 | 0.00 | 160 | 152.0 | 2 | -1.6 | 29 | | | DW | | |
| 5 | 06:44 | 1,023.81 | 0.00 | 160 | 149.0 | 2 | -1.6 | 29 | | | DW | | |
| 6 | 07:35 | 1,452.38 | 0.00 | 150 | 134.0 | 2 | -1.6 | 29 | | | DW | | |
| 7 | 07:43 | 1,000.00 | 0.00 | 160 | 152.0 | 2 | -1.4 | 29 | | | DW | | |
| 8 | 07:57 | 976.19 | 0.00 | 160 | 153.0 | 2 | -1.6 | 29 | | | DW | | |
| 9 | 07:55 | 666.67 | 0.00 | 160 | 153.0 | 2 | -1.6 | 30 | | | CD | | |
| 10 | 09:30 | 1,047.62 | 4.76 | 150 | 139.0 | -20 | -7.7 | 30 | | | CD | | |
| 11 | 10:30 | 1,214.29 | 4.88 | 150 | 132.0 | -20 | -7.7 | 30 | | | CD | | |
| 12 | 07:49 | 1,071.43 | 0.00 | 160 | 156.0 | 2 | -1.8 | 30 | | | DW | | |
| 13 | 08:01 | 976.19 | 0.00 | 160 | 154.0 | 2 | -1.7 | 30 | | | DW | | |
| 14 | 08:01 | 1,166.67 | 0.00 | 160 | 155.0 | 2 | -1.6 | 30 | | | DW | | |
| 15 | 07:57 | 690.48 | 0.00 | 160 | 154.0 | 2 | -1.6 | 30 | | | DW | | |
| 16 | 07:59 | 404.76 | 0.00 | 160 | 149.0 | 2 | -1.8 | 30 | | | DW | | |
| 17 | 07:06 | 1,619.05 | 0.00 | 160 | 141.0 | 2 | -1.7 | 29 | | | JS | | |
| 18 | 07:03 | 1,047.62 | 0.00 | 160 | 135.0 | 2 | -1.8 | 29 | | | JS | | |
| 19 | 07:02 | 666.67 | 0.00 | 160 | 154.0 | 2 | -1.6 | 29 | | | JS | | |
| 20 | 07:58 | 642.86 | 4.83 | 150 | 132.0 | -18 | -7.7 | 31 | | | DW | | |
| 21 | 07:58 | 1,071.43 | 0.00 | 150 | 134.0 | 2 | -1.5 | 30 | | | DW | | |
| 22 | 08:01 | 976.19 | 0.00 | 160 | 146.0 | 2 | -1.5 | 30 | | | DW | | |
| 23 | 08:06 | 1,000.00 | 4.76 | 150 | 136.0 | -18 | -7.7 | 30 | | | DW | | |
| 24 | 09:19 | 1,000.00 | 4.81 | 150 | 134.0 | -18 | -7.7 | 30 | | | JG | | |
| 25 | 10:09 | 1,238.10 | 4.79 | 150 | 135.0 | -19 | -7.7 | 30 | | | JG | | |
| 26 | 07:58 | 1,214.29 | 0.00 | 160 | 153.0 | 2 | -1.4 | 30 | | | DW | | |
| 27 | 08:00 | 833.33 | 0.00 | 160 | 152.0 | 2 | -1.4 | 30 | | | DW | | |
| 28 | 08:05 | 761.90 | 0.00 | 170 | 159.0 | 2 | -1.6 | 30 | | | DW | | |
| 29 | 07:59 | 761.90 | 0.00 | 160 | 152.0 | 2 | -1.6 | 30 | | | DW | | |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |

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# Weekly Injectate Samples

**Kansas Lab Certificate Number** E-10150

| **Week** | **Temperature** | | **pH** | | **Chloride** | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Degrees Fahrenheit | Date | Standard Units | Date | Cl concentration (mg/l) | Date Sample Collected | Date Sampl Analysed | | |
| 1 | 60.44 | 02/06/2024 | 8.18 | 02/06/2024 | N/A | | | | |
| 2 | 59.72 | 02/13/2024 | 8.18 | 02/13/2024 | N/A | | | | |
| 3 | 59.90 | 02/20/2024 | 8.12 | 02/20/2024 | N/A | | | | |
| 4 | 63.50 | 02/27/2024 | 8.18 | 02/27/2024 | N/A | | | | |
| 5 | | | | | N/A | | | | |

## No monthly injectate samples required.