**Facility Well Name** Wheatland Electric #1 **UIC Permit #** KS-01-055-003 **Month** May **Year** 2020

**Submitted** 06/09/2020 **Approved** 06/26/2020 **KOLAR Document ID** 1519164

# Class I-V Injection Well Monthly Monitoring

## Summary of Monthly Report

**Number of days injection occurred:** 31

**Barrels per Day Maximum:** 44,571

| | | | 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 | 11,690 | 7.31 | 344 | 344 | -22.4 | -9.9 | |
| Monthly Maximum | 17,857 | 26.67 | 384 | 384 | 4.0 | 3.6 | |
| Monthly Minimum | 9,524 | 0.00 | 322 | 322 | -25.0 | -11.5 | |
| Monthly Total | 362,381 | | | | | | |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 446.00 | 322 | 9.10 | -25.00 |

**Comments:**

Wheatland Electric #1 05/2020

# 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 | Meter Reading<br>3015.65 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 07:20 | 11,428.57 | 6.43 | 341 | 341.0 | -25 | -11.1 | 29 | | | PS | 3,016.13 | |
| 2 | 08:00 | 12,142.86 | 6.02 | 342 | 342.0 | -25 | -11.3 | 29 | | | PS | 3,016.64 | |
| 3 | 08:50 | 15,238.10 | 6.43 | 342 | 342.0 | -25 | -11.2 | 29 | | | PS | 3,017.28 | |
| 4 | 07:40 | 11,190.48 | 6.31 | 340 | 340.0 | -25 | -11.0 | 29 | | | PS | 3,017.75 | |
| 5 | 08:00 | 11,904.76 | 6.29 | 337 | 337.0 | -25 | -11.5 | 29 | | | PS | 3,018.25 | |
| 6 | 07:30 | 11,190.48 | 6.40 | 340 | 340.0 | -25 | -11.4 | 29 | | | PS | 3,018.72 | |
| 7 | 07:40 | 12,380.95 | 13.93 | 384 | 384.0 | 2 | 1.4 | 29 | | | PS | 3,019.24 | |
| 8 | 07:30 | 15,000.00 | 6.02 | 340 | 340.0 | -25 | -11.2 | 29 | | | PS | 3,019.87 | |
| 9 | 07:15 | 11,428.57 | 6.31 | 337 | 337.0 | -25 | -11.0 | 29 | | | FL | 3,020.35 | |
| 10 | 07:40 | 11,904.76 | 6.36 | 339 | 339.0 | -25 | -11.3 | 29 | | | FL | 3,020.85 | |
| 11 | 09:20 | 12,380.95 | 6.38 | 339 | 339.0 | -25 | -11.1 | 29 | | | FL | 3,021.37 | |
| 12 | 07:25 | 10,476.19 | 0.00 | 341 | 341.0 | 1 | 0.7 | 29 | | | PS | 3,021.81 | |
| 13 | 07:35 | 17,857.14 | 5.83 | 343 | 343.0 | -25 | -11.0 | 29 | | | PS | 3,022.56 | |
| 14 | 07:30 | 10,714.29 | 26.67 | 349 | 349.0 | 4 | 3.6 | 29 | | | PS | 3,023.01 | |
| 15 | 07:40 | 12,142.86 | 6.24 | 336 | 336.0 | -25 | -11.2 | 29 | | | PS | 3,023.52 | |
| 16 | 07:35 | 12,857.14 | 6.02 | 331 | 331.0 | -25 | -11.3 | 29 | | | PS | 3,024.06 | |
| 17 | 08:05 | 11,666.67 | 6.83 | 345 | 345.0 | -25 | -11.3 | 29 | | | PS | 3,024.55 | |
| 18 | 07:25 | 11,190.48 | 7.05 | 346 | 346.0 | -25 | -11.2 | 29 | | | PS | 3,025.02 | |
| 19 | 07:15 | 13,333.33 | 6.90 | 347 | 347.0 | -25 | -11.1 | 29 | | | PS | 3,025.58 | |
| 20 | 07:15 | 10,000.00 | 6.93 | 347 | 347.0 | -25 | -11.0 | 29 | | | PS | 3,026.00 | |
| 21 | 07:50 | 10,238.10 | 6.95 | 350 | 350.0 | -25 | -10.9 | 29 | | | PS | 3,026.43 | |
| 22 | 07:25 | 12,619.05 | 6.93 | 347 | 347.0 | -25 | -11.2 | 29 | | | PS | 3,026.96 | |
| 23 | 07:35 | 10,000.00 | 7.00 | 349 | 349.0 | -25 | -11.2 | 29 | | | FL | 3,027.38 | |
| 24 | 07:45 | 10,238.10 | 7.10 | 351 | 351.0 | -25 | -11.2 | 29 | | | FL | 3,027.81 | |
| 25 | 06:40 | 9,523.81 | 7.02 | 348 | 348.0 | -25 | -11.3 | 29 | | | FL | 3,028.21 | |
| 26 | 07:55 | 10,714.29 | 7.02 | 347 | 347.0 | -25 | -11.2 | 29 | | | PS | 3,028.66 | |
| 27 | 07:20 | 9,761.90 | 7.05 | 349 | 349.0 | -25 | -11.2 | 29 | | | PS | 3,029.07 | |
| 28 | 07:20 | 10,238.10 | 7.05 | 348 | 348.0 | -25 | -11.2 | 29 | | | PS | 3,029.50 | |
| 29 | 07:20 | 10,238.10 | 7.07 | 350 | 350.0 | -25 | -11.4 | 29 | | | PS | 3,029.93 | |
| 30 | 06:55 | 11,904.76 | 7.02 | 350 | 350.0 | -25 | -11.2 | 29 | | | PS | 3,030.43 | |
| 31 | 08:00 | 10,476.19 | 7.05 | 322 | 322 | -25 | -11.2 | 29 | | | PS | 3,030.87 | |

Wheatland Electric #1 05/2020

# 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 | 62.80 | 05/04/2020 | 7.22 | 05/04/2020 | 571.0 | 05/04/2020 | 05/07/2020 | | |
| 2 | 62.10 | 05/11/2020 | 7.32 | 05/11/2020 | 535.0 | 05/11/2020 | 05/13/2020 | | |
| 3 | 63.00 | 05/18/2020 | 7.54 | 05/18/2020 | 594.0 | 05/18/2020 | 05/27/2020 | | |
| 4 | 63.00 | 05/25/2020 | 7.58 | 05/25/2020 | 609.0 | 05/25/2020 | 06/02/2020 | | |
| 5 | | | | | | | | | |

## No monthly injectate samples required.

# Quarterly Injectate Samples

**Quarter** 2
**Date Sample Collected** 05/18/2020
**Kansas Lab Certificate Number** E10146
**Lab Name** Pace

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

| Constituent | Value | Units |
|---|---|---|
| Calcium | 8,400.000 | mg/l |
| Conductivity | 10,300.000 | Mmhos |
| Magnesium | 4,460.000 | mg/l |
| Sodium | 10,000.000 | mg/l |
| Sulfate | 6,080.000 | mg/l |
| Total Alkalinity as CaCO3 | 1,050.000 | mg/l |
| Total Dissolved Solids | 11,800.000 | mg/l |
| Total Suspended Solids | 6.800 | mg/l |
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