**Facility Well Name** Wheatland Electric #1 **UIC Permit #** KS-01-055-003 **Month** February **Year** 2022

**Submitted** 03/14/2022 **Approved** 03/28/2022 **KOLAR Document ID** 1634184

# Class I-V Injection Well Monthly Monitoring

## Summary of Monthly Report

**Number of days injection occurred:** 28

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

| | Injection Volume Barrels per Day | Injection Rate Barrels per Minute | Annulus Pressure psig min 60 Gauge psig | Annulus Pressure Cont. Record psig | Injection Pressure Gauge psig | Injection Pressure Cont. Record psig | Amount Added to Seal Pot |
|---|---|---|---|---|---|---|---|
| **Monthly Average** | 12,236 | 8.30 | 349 | 349 | -17.0 | -6.4 | |
| **Monthly Maximum** | 19,929 | 16.43 | 402 | 402 | 4.0 | 3.6 | |
| **Monthly Minimum** | 7,262 | 0.00 | 299 | 299 | -25.0 | -10.3 | |
| **Monthly Total** | 342,619 | | | | | | |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 487.00 | 282.00 | 11.00 | -25.00 |

**Comments:**

Wheatland Electric #1 02/2022

# 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>3316371 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 07:00 | 10,404.76 | 7.21 | 366 | 366.0 | -25 | -9.8 | 28 | | | PS | 3,316,808.0 | |
| 2 | 08:20 | 11,571.43 | 14.07 | 396 | 396.0 | 2 | 3.2 | 28 | | | FL | 3,317,294.0 | |
| 3 | 07:45 | 18,952.38 | 4.48 | 346 | 346.0 | -25 | -9.9 | 28 | | | FL | 3,318,090.0 | |
| 4 | 07:45 | 7,261.90 | 6.79 | 348 | 348.0 | -25 | -9.7 | 28 | | | FL | 3,318,395.0 | |
| 5 | 09:00 | 15,047.62 | 13.40 | 367 | 367.0 | 4 | 3.6 | 28 | | | FL | 3,319,027.0 | |
| 6 | 08:40 | 11,119.05 | 14.43 | 310 | 310.0 | -2 | -2.1 | 28 | | | PS | 3,319,494.0 | |
| 7 | 07:30 | 19,428.57 | 14.36 | 306 | 306.0 | -3 | -2.9 | 28 | | | PS | 3,320,310.0 | |
| 8 | 07:20 | 10,047.62 | 7.29 | 299 | 299.0 | -25 | -9.8 | 28 | | | PS | 3,320,732.0 | |
| 9 | 07:25 | 9,547.62 | 7.07 | 299 | 299.0 | -25 | -9.8 | 28 | | | PS | 3,321,133.0 | |
| 10 | 07:25 | 19,928.57 | 5.74 | 300 | 300.0 | -25 | -10.1 | 28 | | | PS | 3,321,970.0 | |
| 11 | 07:30 | 10,404.76 | 6.48 | 362 | 362.0 | -25 | -10.0 | 28 | | | PS | 3,322,407.0 | |
| 12 | 07:35 | 10,333.33 | 7.31 | 358 | 358.0 | -25 | -9.8 | 28 | | | PB | 3,322,841.0 | |
| 13 | 08:45 | 11,095.24 | 7.24 | 360 | 360.0 | -25 | -10.1 | 28 | | | PB | 3,323,307.0 | |
| 14 | 07:50 | 10,166.67 | 7.24 | 361 | 361.0 | -25 | -10.1 | 28 | | | PB | 3,323,734.0 | |
| 15 | 07:50 | 16,714.29 | 13.33 | 402 | 402.0 | 2 | 3.1 | 28 | | | PB | 3,324,436.0 | |
| 16 | 07:50 | 11,142.86 | 5.52 | 341 | 341.0 | -25 | -9.9 | 28 | | | PB | 3,324,904.0 | |
| 17 | 07:50 | 8,857.14 | 0.00 | 391 | 391.0 | 0 | 1.9 | 28 | | | PB | 3,325,276.0 | |
| 18 | 07:50 | 8,976.19 | 5.60 | 333 | 333.0 | -25 | -9.9 | 28 | | | PB | 3,325,653.0 | |
| 19 | 07:50 | 9,976.19 | 5.62 | 336 | 336.0 | -25 | -10.0 | 28 | | | FL | 3,326,072.0 | |
| 20 | 08:00 | 10,666.67 | 5.55 | 337 | 337.0 | -25 | -10.1 | 28 | | | FL | 3,326,520.0 | |
| 21 | 07:55 | 10,595.24 | 5.71 | 337 | 337.0 | -25 | -10.0 | 28 | | | FL | 3,326,965.0 | |
| 22 | 08:00 | 10,761.90 | 16.43 | 381 | 381.0 | -5 | -0.5 | 28 | | | PB | 3,327,417.0 | |
| 23 | 06:30 | 17,166.67 | 13.29 | 379 | 379.0 | 1 | 1.3 | 28 | | | PS | 3,328,138.0 | |
| 24 | 07:45 | 9,000.00 | 5.60 | 340 | 340.0 | -25 | -9.6 | 28 | | | FL | 3,328,516.0 | |
| 25 | 07:40 | 17,547.62 | 13.31 | 390 | 390.0 | 0 | 1.9 | 28 | | | FL | 3,329,253.0 | |
| 26 | 08:45 | 17,214.29 | 5.67 | 343 | 343.0 | -25 | -10.3 | 28 | | | PS | 3,329,976.0 | |
| 27 | 08:40 | 9,500.00 | 6.79 | 344 | 344.0 | -25 | -10.0 | 28 | | | PS | 3,330,375.0 | |
| 28 | 07:10 | 9,190.48 | 6.81 | 347 | 347.0 | -25 | -10.0 | 28 | | | PS | 3,330,761.0 | |
| 29 | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |

Wheatland Electric #1 02/2022

# 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 | 63.00 | 02/07/2022 | 7.56 | 02/07/2022 | 605.0 | 02/07/2022 | 02/12/2022 | | |
| 2 | 63.00 | 02/14/2022 | 7.78 | 02/14/2022 | 593.0 | 02/14/2022 | 02/18/2022 | | |
| 3 | 62.50 | 02/21/2022 | 7.52 | 02/21/2022 | 652.0 | 02/21/2022 | 03/05/2022 | | |
| 4 | 61.70 | 02/28/2022 | 7.67 | 02/28/2022 | 557.0 | 02/28/2022 | 03/03/2022 | | |
| 5 | | | | | | | | | |

## No monthly injectate samples required.

Wheatland Electric #1 02/2022

# Quarterly Injectate Samples

**Quarter** 1
**Date Sample Collected** 02/18/2022
**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 |
|---|---|---|
| Calcium | 1,030.000 | mg/l |
| Conductivity | 10,700.000 | Mmhos |
| Magnesium | 456.000 | mg/l |
| Sodium | 1,220.000 | mg/l |
| Sulfate | 5,570.000 | mg/l |
| Total Alkalinity as CaCO3 | 1,170.000 | mg/l |
| Total Dissolved Solids | 11,300.000 | mg/l |
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