**Facility Well Name** Wheatland Electric #1 **UIC Permit #** KS-01-055-003 **Month** September **Year** 2019

**Submitted** 10/07/2019 **Approved** 11/05/2019 **KOLAR Document ID** 1474044

# Class I-V Injection Well Monthly Monitoring

## Summary of Monthly Report

**Number of days injection occurred:** 30

**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** | 10,865 | 8.23 | 335 | 335 | -20.9 | -9.6 | |
| **Monthly Maximum** | 20,952 | 15.45 | 462 | 462 | 6.0 | 5.7 | |
| **Monthly Minimum** | 1,190 | 0.00 | 239 | 239 | -25.0 | -12.0 | |
| **Monthly Total** | 325,952 | | | | | | |

## Summary of Continuous Recorder Data

| Maximum Annulus Pressure psig | Minimum Annulus Pressure psig | Maximum Injection Pressure psig | Minimum Injection Pressure psig |
|---|---|---|---|
| 498.00 | 188.00 | 8.00 | -25.00 |

**Comments:**

Injection falloff test September 8th and 9th.

Wheatland Electric #1 09/2019

# 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>2902.57 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 07:40 | 8,809.52 | 7.00 | 338 | 338.0 | -25 | -11.7 | 29 | | | PS | 2,902.94 | |
| 2 | 08:40 | 10,476.19 | 7.02 | 338 | 338.0 | -25 | -11.7 | 29 | | | PS | 2,903.38 | |
| 3 | 07:35 | 9,523.81 | 7.02 | 337 | 337.0 | -25 | -11.8 | 29 | | | PS | 2,903.78 | |
| 4 | 07:30 | 10,238.10 | 6.86 | 334 | 334.0 | -25 | -11.7 | 29 | | | PS | 2,904.21 | |
| 5 | 07:20 | 10,000.00 | 7.05 | 335 | 335.0 | -25 | -11.8 | 29 | | | PS | 2,904.63 | |
| 6 | 07:25 | 10,238.10 | 7.05 | 335 | 335.0 | -25 | -11.9 | 29 | | | PS | 2,905.06 | |
| 7 | 08:25 | 12,857.14 | 5.74 | 330 | 330.0 | -25 | -11.8 | 29 | | | PS | 2,905.60 | |
| 8 | 08:30 | 1,190.48 | 13.62 | 291 | 291.0 | -22 | -10.2 | 29 | | | PS | 2,905.65 | |
| 9 | 06:10 | 18,095.24 | 14.12 | 239 | 239.0 | -22 | -10.4 | 29 | | | PS | 2,906.41 | |
| 10 | 07:05 | 2,142.86 | 0.00 | 462 | 462.0 | -22 | -10.3 | 29 | | | PS | 2,906.50 | |
| 11 | 07:25 | 19,047.62 | 15.00 | 355 | 355.0 | 6 | 5.7 | 29 | | | PS | 2,907.30 | |
| 12 | 07:20 | 20,952.38 | 14.76 | 351 | 351.0 | 1 | 0.4 | 29 | | | PS | 2,908.18 | |
| 13 | 07:40 | 11,428.57 | 7.36 | 311 | 311.0 | -25 | -12.0 | 29 | | | FL | 2,908.66 | |
| 14 | 07:30 | 11,428.57 | 6.71 | 311 | 311.0 | -25 | -11.7 | 29 | | | FL | 2,909.14 | |
| 15 | 07:00 | 10,714.29 | 6.43 | 319 | 319.0 | -25 | -11.7 | 29 | | | FL | 2,909.59 | |
| 16 | 07:55 | 10,952.38 | 7.40 | 316 | 316.0 | -25 | -11.7 | 29 | | | FL | 2,910.05 | |
| 17 | 07:25 | 10,952.38 | 7.38 | 323 | 323.0 | -25 | -11.6 | 29 | | | PS | 2,910.51 | |
| 18 | 07:35 | 11,190.48 | 6.52 | 322 | 322.0 | -25 | -11.6 | 29 | | | PS | 2,910.98 | |
| 19 | 07:30 | 10,714.29 | 7.12 | 318 | 318.0 | -25 | -11.6 | 29 | | | PS | 2,911.43 | |
| 20 | 07:25 | 10,000.00 | 6.88 | 318 | 318.0 | -25 | -11.7 | 29 | | | PS | 2,911.85 | |
| 21 | 00:11 | 15,714.29 | 15.10 | 315 | 315.0 | 2 | 1.9 | 29 | | | PS | 2,912.51 | |
| 22 | 09:50 | 8,095.24 | 6.95 | 389 | 389.0 | -25 | -11.9 | 29 | | | PS | 2,912.85 | |
| 23 | 06:55 | 8,809.52 | 7.07 | 360 | 360.0 | -25 | -12.0 | 29 | | | PS | 2,913.22 | |
| 24 | 06:35 | 9,047.62 | 6.83 | 357 | 357.0 | -25 | -11.6 | 29 | | | PS | 2,913.60 | |
| 25 | 06:20 | 7,619.05 | 7.17 | 365 | 365.0 | -25 | -11.5 | 29 | | | PS | 2,913.92 | |
| 26 | 07:25 | 10,952.38 | 15.45 | 333 | 333.0 | 5 | 5.2 | 29 | | | PS | 2,914.38 | |
| 27 | 07:20 | 14,761.90 | 6.81 | 369 | 369.0 | -25 | -11.7 | 29 | | | PS | 2,915.00 | |
| 28 | 07:15 | 9,523.81 | 7.00 | 327 | 327.0 | -25 | -11.8 | 29 | | | FL | 2,915.40 | |
| 29 | 07:40 | 10,476.19 | 6.71 | 320 | 320.0 | -25 | -11.5 | 29 | | | FL | 2,915.84 | |
| 30 | 07:55 | 10,000.00 | 6.71 | 320 | 320.0 | -25 | -11.4 | 29 | | | FL | 2,916.26 | |
| 31 | | | | | | | | | | | | | |

# Weekly Injectate Samples

**Kansas Lab Certificate Number**

| Week | Temperature | | pH | | Chloride | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Degrees Fahrenheit | Date | Standard Units | Date | Cl concentration (mg/l) | Date Sample Collected | Date Sampl Analysed | | |
| 1 | 63.30 | 09/03/2019 | 7.62 | 09/03/2019 | 722.0 | 09/03/2019 | 09/16/2019 | | |
| 2 | 62.80 | 09/09/2019 | 7.42 | 09/09/2019 | 177.0 | 09/09/2019 | 09/19/2019 | | |
| 3 | 63.30 | 09/16/2019 | 7.34 | 09/16/2019 | 743.0 | 09/16/2019 | 09/30/2019 | | |
| 4 | 63.00 | 09/23/2019 | 7.48 | 09/23/2019 | 744.0 | 09/23/2019 | 09/30/2019 | | |
| 5 | 62.20 | 09/30/2019 | 7.54 | 09/30/2019 | 728.0 | 09/30/2019 | 10/02/2019 | | |

## No monthly injectate samples required.