

UICI-8-3

**EPA FALL-OFF
TEST REPORT
(WDW-3)**

2023



Technical
Report

MECHANICAL INTEGRITY AND
RESERVOIR TESTING

CLASS I NON-HAZARDOUS DEEPWELL GAINES
WDW-3

(OCD UIC Permit: UICI-008-3)
(API Number: 30-015-26575)

HollyFrontier Navajo Refining Company
Artesia, New Mexico

Section 1, Township 18S, Range 27E
2250 FWL, 790 FSL

September 2023

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2023 MECHANICAL INTEGRITY AND RESERVOIR TESTING
CLASS I NON-HAZARDOUS DEEPWELL
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HollyFrontier Navajo Refining Company
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Artesia, New Mexico

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Mechanical Integrity and Reservoir Testing
HollyFrontier Navajo Refining-Artesia, New Mexico - September 2023

EXECUTIVE SUMMARY

This report summarizes the successful mechanical integrity testing (MIT) and falloff testing activities performed on the Gaines WDW-3 (WDW-3) at the HollyFrontier Navajo Refining Company (HFNR) facility at Artesia, New Mexico. The work was performed as a condition of the applicable UIC permit issued by the New Mexico Oil Conservation Division (OCD). Under contract, Petrotek Corporation (Petrotek) developed the MIT procedures, provided field supervision, completed pressure transient test analysis, and prepared the final report documenting the fieldwork on the Class I non-hazardous injection well.

The test procedures were submitted to the OCD headquarters and OCD District II on April 26, 2023, before field activities commenced. Attachment 1 presents the test notification and procedures submitted to OCD. Approvals were received from regulatory agency staff prior to commencement of activities. No OCD personnel were present to witness testing. MIT and reservoir testing activities were supervised by Gary Hastings (Petrotek) from August 30 through September 1, 2023.

The field activities consisted of an annulus pressure test (APT) and an injection falloff test on WDW-3. The well satisfactorily demonstrated mechanical integrity pursuant to the applicable UIC permit, guidelines and regulations. All MIT requirements were satisfied as a result of the work performed. Wellbore and reservoir properties were confirmed as similar to those determined from analysis of the previous testing conducted in the well.

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1. FACILITY INFORMATION

- a. **Name** - HollyFrontier Navajo Refining Company
- b. **Location** - Highway 82 East, Artesia, New Mexico, 88211
- c. **Operator's OIL AND Gas Remittance Identifier (GRD) Number** - 15694

2. WELL INFORMATION

- a. **OCD UIC Permit number authorizing injection** - OCD UIC Permit: UICI-008-3
- b. **Well classification** - Class I Non-hazardous
- c. **Well name and number** - Gaines WDW-3
- d. **API Number** - 30-015-26575
- e. **Legal Location** - Section 1, Township 18S, Range 27E, 2250 FWL, 790 FSL

3. CURRENT WELLBORE SCHEMATIC

A wellbore schematic displaying the well configuration during testing is provided as Figure 1. A wellhead schematic is provided as Figure 2.

4. COPY OF AN ELECTRIC LOG ENCOMPASSING THE COMPLETED INTERVAL

A copy of the dual induction log run in 1991 during the initial completion of the well was submitted with the original permit and can be found online on the OCD website as part of the OCD well files for this well:

<https://ocdimage.emnrd.nm.gov/imaging/WellFileView.aspx?RefType=WL&RefID=30015265750000>

5. COPY OF RELEVANT PORTIONS OF ANY POROSITY LOG USED TO ESTIMATE FORMATION POROSITY

A copy of the neutron density log, encompassing the completed interval between 7,660 and 8,620 ft KB, can be found online on the OCD website as part of the well files for this well. From these logs, it was determined that the injection reservoir thickness was approximately 175 feet with an average porosity of 10 percent. Consistent with the most recent test analysis submitted, these values were used for the analysis performed in this report.

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6. PVT DATA OF THE FORMATION AND INJECTION FLUID

As reported in previous test analysis reports, fluid samples of connate brine from the injection interval were collected from the WDW-1 (33,000 mg/L) and WDW-2 (20,000 mg/L) during recompletion as Class I UIC wells. Both of these wells are completed in the same injection formation. The average density and total dissolved solids (TDS) of the fluids recovered from the two wells were 1.03 g/cc and 26,500 mg/l, respectively. The results of formation fluid analysis were provided in documents previously submitted to and approved by OCD. Available analyte values for WDWs 1, 2 and 3 are provided in Table 1. Note that formation fluid samples were collected from WDW-4, but the well was completed in a separate injection zone. As such, WDW-4 geology and formation fluid samples will be discussed separately in the testing report for that well.

TABLE 1
HFNR FORMATION FLUID SAMPLE ANALYSIS RESULTS

| Chemical | Mewbourne Well (WDW-1) | Chukka Well (WDW-2) | Gaines Well (WDW-3) | Average |
|---------------------------------|------------------------|---------------------|---------------------|---------|
| Date | 7/31/1998 | 6/14/1999 | 9/8/2006 | |
| Fluoride (mg/L) | 2.6 | 9.7 | ND | 6.15 |
| Chloride (mg/L) | 19,000 | 15,000 | 10,447 | 14,816 |
| NO ₃ -N (mg/L) | <10 | <10 | -- | <10 |
| SO ₄ (mg/L) | 2,200 | 2,000 | 1,908 | 2,036 |
| CaCO ₃ (mg/L) | 1,000 | 1,210 | -- | 1,105 |
| Specific Gravity (unitless) | 1.0340 | 1.0249 | -- | 1.0295 |
| TDS (mg/L) | 33,000 | 20,000 | -- | 26,500 |
| Specific Conductance (uMHOs/cm) | 52,000 | 43,000 | -- | 47,500 |
| Potassium (mg/L) | 213.0 | 235.0 | 85.5 | 177.8 |
| Magnesium (mg/L) | 143 | 128 | 155 | 142 |
| Calcium (mg/L) | 390 | 609 | 393 | 464 |
| Sodium (mg/L) | 12,770 | 8,074 | 6,080 | 8,975 |
| pH | 8.10 | 7.20 | -- | 7.65 |

Note: ND: Non-detect; -- indicates no analysis.

The formation viscosity, fluid compressibility, and total compressibility were estimated using the average brine salinity along with the recorded bottom hole pressure and temperature in conjunction with industry standard correlations. The correlations used are from the SPE textbook on Pressure Transient Testing which was published as part of the SPE Textbook Series as Volume 9. For the sake of brevity, only page, equation, and figure numbers from this volume are listed subsequently in this report as a reference for all correlations presented for the PVT data.

The percent solids for the fluid was approximated as 2.65%, based on the average 26,500 mg/l TDS brine concentration for the formation samples in Table 1. A bottom hole temperature of 127.4 °F has been used as representative of the formation for these correlations. This value was derived from the original temperature log, run in 2006 when the well was recompleted. This log is can be found online on the OCD site as part of the well files for this well.

Fluid viscosity was estimated using multiple equations developed by McCain that first are used to estimate fluid viscosity at atmospheric conditions (equations B-72, 73, and 74), which is then converted to viscosity at bottom hole conditions (equation B-75) by using a correction factor. These equations can be found on page 527. As a primary input for the correlation, pressure is required. The original formation pressure has been estimated at a depth of 7,660 feet BGL using the average formation fluid specific gravity based on the TDS values provided in Table 1. Using this method, a value of 3,404.7 psi has been estimated as the original pressure at gauge depth (7,660 feet BGL). At this pressure and a temperature of 127.4 °F, the following equations have been used to derive viscosity:

$$\mu_{w1} = AT^B \quad (B-72)$$

$$A = 109.574 - 8.40564 * S + 0.313314 * S^2 + 8.72213 * 10^{-3} * S^3 \quad (B-73)$$

$$B = -1.12166 + 2.63951 * 10^{-2} * S - 6.79461 * 10^{-4} * S^2 - 5.47119 * 10^{-5} * S^3 + 1.55586 * 10^{-6} * S^4 \quad (B-74)$$

$$\frac{\mu_w}{\mu_{w1}} = 0.9994 + 4.0295 * 10^{-5} * P + 3.1062 * 10^{-9} * P^2 \quad (B-75)$$

Where,

μ_{w1} is the viscosity of the formation fluid at atmospheric conditions

T_F is the bottom hole temperature in °F

S is the percent of solids

P is the bottom hole pressure in psi

μ_w is the viscosity of the brine at bottom hole conditions

Using these equations, a value of 0.56 centipoise is calculated for the formation fluid viscosity.

Formation Compressibility was estimated using equation L-89 provided on page 337. This equation was developed for limestone formations, consistent with the primary composition of the effective injection interval (see discussion in Section 11).

$$cf = \frac{a}{(1+bc\Phi)^{\frac{1}{b}}} \quad (L-89)$$

Where,

$$\begin{aligned}a &= 0.8535 \\b &= 1.075 \\c &= 2.303 \text{ E}06 \\ \Phi &= 0.10\end{aligned}$$

Based on this equation, a value of $8.20\text{E-}6 \text{ psi}^{-1}$ is derived for formation compressibility.

Fluid compressibility was estimated using figures L-30 and L-31 on page 338. The estimate is based on a bottom hole temperature of $127.4 \text{ }^{\circ}\text{F}$, a bottom hole pressure of $3,404.7 \text{ psi}$, and a solids weight of 2.65% . Using Figure L-31 to first estimate freshwater compressibility, a value of $2.86\text{E-}06 \text{ psi}^{-1}$ is derived. Using Figure L-30, the coefficient of isothermal compressibility (ratio of brine compressibility over freshwater compressibility) was determined to be approximately 0.95 . This results in a value of $2.70\text{E-}06 \text{ psi}^{-1}$ for the formation fluid compressibility (C_w).

By combining the formation and formation fluid compressibility, the total system compressibility is determined. The total system compressibility (C_t) is approximately $10.9 \text{ E-}06 \text{ psi}^{-1}$.

The specific gravity of the test fluid, based on the static gradient survey performed at the end of the test, was 1.007 (gradient of 0.436 psi/ft) with a measured temperature during injection of $105.4 \text{ }^{\circ}\text{F}$. Using Equations L-84 through L-87, the viscosity of the injected fluid at bottom hole conditions at the wellbore during injection is 0.71 cp . The compressibility of the injected fluid is (based on Figures L-30 and 31) is $2.88 \text{ E-}06 \text{ psi}^{-1}$.

The values presented in this section have been utilized for analysis unless stated otherwise.

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7. DAILY RATE HISTORY FOR A MINIMUM OF ONE MONTH PRECEDING THE FALLOFF TEST

The following table summarizes data acquired with HFNR well monitoring equipment.

**TABLE 2
MAY AND JUNE INJECTION DATA**

| Date | Injection Pressure (psi) | Injection Rate (gpm) | Annulus Pressure (psi) |
|-----------|--------------------------|----------------------|------------------------|
| 7/1/2023 | 1125.2 | 107.71 | 708.9 |
| 7/2/2023 | 1125.1 | 106.64 | 714.6 |
| 7/3/2023 | 1120.7 | 105.37 | 682.8 |
| 7/4/2023 | 1045.4 | 95.26 | 611.6 |
| 7/5/2023 | 1055.9 | 98.04 | 592.3 |
| 7/6/2023 | 1075.2 | 101.55 | 607.2 |
| 7/7/2023 | 1081.1 | 102.41 | 639.1 |
| 7/8/2023 | 1127.3 | 109.94 | 702.6 |
| 7/9/2023 | 1182.4 | 120.78 | 771.2 |
| 7/10/2023 | 1171.0 | 118.57 | 768.3 |
| 7/11/2023 | 1143.6 | 116.08 | 767.1 |
| 7/12/2023 | 1131.1 | 114.01 | 756.7 |
| 7/13/2023 | 1114.9 | 111.84 | 759.7 |
| 7/14/2023 | 1147.0 | 117.37 | 793.5 |
| 7/15/2023 | 1115.0 | 112.40 | 779.7 |
| 7/16/2023 | 1125.1 | 114.30 | 767.1 |
| 7/17/2023 | 1126.5 | 115.47 | 781.2 |
| 7/18/2023 | 1180.3 | 125.98 | 788.1 |
| 7/19/2023 | 1243.7 | 136.87 | 802.7 |
| 7/20/2023 | 1136.7 | 119.27 | 797.9 |
| 7/21/2023 | 1061.3 | 106.81 | 761.3 |
| 7/22/2023 | 1081.8 | 110.15 | 778.9 |
| 7/23/2023 | 1140.2 | 119.80 | 845.8 |
| 7/24/2023 | 1163.8 | 123.74 | 880.8 |
| 7/25/2023 | 1135.1 | 118.71 | 861.7 |
| 7/26/2023 | 1135.2 | 119.03 | 853.9 |
| 7/27/2023 | 1141.8 | 120.00 | 844.8 |
| 7/28/2023 | 1171.5 | 124.36 | 845.1 |
| 7/29/2023 | 1171.0 | 123.74 | 831.6 |
| 7/30/2023 | 1165.3 | 122.44 | 815.8 |
| 7/31/2023 | 1218.4 | 131.46 | 842.9 |
| 8/1/2023 | 1268.3 | 140.44 | 868.3 |
| 8/2/2023 | 1138.9 | 121.72 | 803.6 |

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| Date | Injection Pressure (psi) | Injection Rate (gpm) | Annulus Pressure (psi) |
|-----------|--------------------------|----------------------|------------------------|
| 8/3/2023 | 1148.0 | 122.19 | 841.4 |
| 8/4/2023 | 1142.8 | 121.50 | 879.1 |
| 8/5/2023 | 1165.0 | 124.72 | 871.8 |
| 8/6/2023 | 1164.3 | 124.33 | 803.6 |
| 8/7/2023 | 1169.4 | 124.43 | 737.8 |
| 8/8/2023 | 1180.1 | 124.88 | 751.4 |
| 8/9/2023 | 1104.3 | 111.89 | 700.6 |
| 8/10/2023 | 1015.7 | 96.91 | 624.5 |
| 8/11/2023 | 1064.6 | 105.64 | 650.3 |
| 8/12/2023 | 1108.5 | 111.26 | 699.8 |
| 8/13/2023 | 1082.2 | 104.98 | 752.1 |
| 8/14/2023 | 1142.9 | 114.65 | 826.2 |
| 8/15/2023 | 1175.2 | 118.42 | 830.7 |
| 8/16/2023 | 1175.3 | 119.06 | 777.3 |
| 8/17/2023 | 1180.7 | 119.58 | 727.8 |
| 8/18/2023 | 1200.2 | 122.09 | 751.3 |
| 8/19/2023 | 1200.1 | 121.91 | 821.0 |
| 8/20/2023 | 1183.7 | 118.58 | 865.4 |
| 8/21/2023 | 1150.2 | 114.39 | 840.5 |
| 8/22/2023 | 1151.0 | 114.22 | 847.6 |
| 8/23/2023 | 1217.1 | 120.46 | 891.9 |
| 8/24/2023 | 1250.3 | 126.25 | 870.8 |
| 8/25/2023 | 1223.7 | 120.79 | 897.1 |
| 8/26/2023 | 1204.4 | 117.77 | 875.1 |
| 8/27/2023 | 1248.6 | 123.15 | 875.3 |
| 8/28/2023 | 1174.7 | 112.01 | 796.1 |
| 8/29/2023 | 1169.0 | 111.29 | 713.4 |

8. CUMULATIVE INJECTION INTO THE FORMATION FROM TEST WELL

At the time of shut-in for testing this year, the cumulative volume of waste injected into this well since operations began was 25,368,168 barrels (1,065,463,051 gallons).

9. PRESSURE GAUGES

- a. **Describe the type of downhole surface pressure readout gauge used included manufacturer and type** - Two downhole pressure and temperature memory gauges were utilized for the falloff testing. The gauges were 1.25-inch Quartz pressure and temperature memory gauges manufactured by DataCan (Part No. 101696).
- b. **List the full range, accuracy and resolution of the gauge(s)** - The memory gauges are designed to measure pressure to an accuracy of 0.03% of full scale and a resolution of 0.01% of full scale, and operate within a range of 14.7 to 10,000 psi.
- c. **Provide the manufacturer's recommended frequency of calibration and a calibration certificate showing the date the gauge was last calibrated** - These gauges are recommended to be calibrated once per year. These gauges were last calibrated on 3/10/2022. The most recent calibration certificates are provided in Attachment 3. The bottom gauge (Serial Number - 224831) was utilized for analysis and hung at a test depth 7,572 feet BGL.

10. ONE-MILE AREA OF REVIEW (AOR)

A standard one-mile Area of Review (AOR) was evaluated for WDW-3 by Petrotek as part of the annual testing and reporting requirements. The wells located within this one-mile AOR are listed in Attachment 6. This table contains the operator, well name, API number, well type, well status, location, and dates of spud and abandonment. A figure displaying the wells located in the AOR and the wells in the surrounding sections has been provided as Figure 13.

No new wells have been drilled or P&A'd within the AOR since the prior report.

- a. **Wells located within the one-mile AOR** - The wells located within the one-mile AOR are provided as Attachment 6. This table contains the operator, well name, API number, well type, well status, location, and date of abandonment or completion.
- b. **Status of wells within AOR** - In Attachment 6, SWD indicates Salt Water Disposal, P&A indicates Plugged and Abandoned, TA indicates Temporarily Abandoned, and AL indicates Abandoned Location.

- c. **Provide details on any offset producers and injectors completed in the same injection interval** - HFNR operates three other Class I Injection wells, two of which are completed in the same interval, WDW-1 and WDW-2. Only WDW-2 is located within the AOR. Based on public data, there are three additional wells, not operated by HFNR that are located within the AOR and inject into the same interval. No offset producers exist in the injection interval within the AOR based on public data. Additional information is presented in Section 12 of this report.

11. GEOLOGY

- a. **Describe the geologic environment of the injection interval**
 b. **Discuss the presence of geologic features, i.e., pinchouts, channels and faults, if applicable**
 c. **Provide a portion of a relevant structure map, if necessary**

The following discussion provides detailed responses to the requirements listed above. This discussion is primarily based on information presented in previous permit applications for this well.

The WDW-1, 2 and 3 wells are located in the northern part of the Delaware Basin. The injection interval for the three wells are composed of carbonates from the Permian-age Lower Wolfcamp Formation, Pennsylvanian-age Cisco Formation, and Pennsylvanian-age Canyon Formation. The Wolfcamp unconformably overlies the Cisco and Canyon Formations. Table 4, sourced from the 2019 MIT report, presents a summary of the logged formation depths for these formations in each of the wells. The geologic interpretations have been confirmed but not revised as part of this report.

TABLE 3
HFNR INJECTION FORMATION TOPS – WDW-1, 2 and 3

| Formation | WDW-1 (KB = 3,693 ft AMSL) | | WDW-2 (KB = 3,623 ft AMSL) | | WDW-3 (KB = 3,625 ft AMSL) | |
|---|-------------------------------|------------------|-------------------------------|------------------|-------------------------------|------------------|
| | MD, KB (ft) | AMSL, KB (ft) | MD, KB (ft) | AMSL, KB (ft) | MD, KB (ft) | AMSL, KB (ft) |
| Lower Wolfcamp | 7,450 | -3,757 | 7,270 | -3,647 | 7,303 | -3,678 |
| Cisco | 7,816 | -4,123 | 7,645 | -4,022 | 7,650 | -4,025 |
| Canyon | 8,475 | -4,782 | 8,390 | -4,767 | 8,390 | -4,765 |
| Base of Injection Zone (Base of Canyon) | 9,016 | -5,323 | 8,894 | -5,271 | 8,894 | -5,269 |

The lower portion of the Wolfcamp Formation, referred to as the Lower Wolfcamp, is the uppermost unit in the injection interval. The top of the zone ranges from 7,303 – 7,450 feet KB in the referenced wells. A structure map of the top of the Lower Wolfcamp is provided in Figure 3. The Wolfcamp ranges from fine to medium-grained, limestones with interbedded shales (Meyer, 1966). The picks for the top of the Wolfcamp were made from log correlations. The Wolfcamp is overlain by the dense, dolomitic Abo Formation. The gross thickness of the Lower Wolfcamp is approximately 363 feet. According to porosity log data from the area, the Wolfcamp porosity is generally greater than 5%.

The Cisco Formation is described as consisting of limestone/dolomite with some interbedded shales and fine-grained sandstones (Lindsay et. al., 2006). The top of the Cisco occurs at approximately 7,645 – 7,816 feet KB. A structure map of the top of the Cisco can be found in Figure 4. Coarse-grained dolomites have been noted to have interstitial to cavernous porosity (Lindsay et. al., 2006). At the three HFNR wells, the Cisco Formation is a porous dolomite that ranges from gross thickness of 659 feet to 745 feet. The net thickness using a porosity cutoff of greater than 10% is approximately 100 feet in WDW-1, 32 feet in WDW-2, and 65 feet in WDW-3.

The Canyon Formation typically consists mostly of brown limestone with interbedded grey shales (Lindsay et. al., 2006). The top of the Canyon occurs at approximately 8,400 KB. Some white sandstone and conglomerates have been noted at the base of the Canyon (Lindsay et. al., 2006). Some dolomites have been noted to be present in the Canyon as well. Gross thickness of the Canyon Formation is approximately 504-541 feet in the three wells. The net thickness using a porosity cutoff greater than 5% is approximately 34 feet in WDW-1, 30 feet in WDW-2, and 10 feet in WDW-3. No intervals appear to have a porosity more than 10% based on log review. A structure map is provided in Figure 5 which displays the top of the Strawn Formation, indicating the bottom of the Canyon.

12. OFFSET WELLS

HFNR operates three other Class I Injection wells locally, two of which are completed in the same interval, WDW-1 and WDW-2. Only WDW- 2 is listed in Attachment 6 since WDW-1 is not within the 1-mile AOR surrounding WDW-3. No changes have occurred to either of these wells since testing last year.

WDW-1 is approximately 7,800 feet to the northeast of WDW-3, while WDW-2 is approximately 3,100 feet to the west-southwest of WDW-3. These wells are at a significant distance from the test well in a relatively high permeability system, and are not considered to have had an unacceptable impact on the testing performed on WDW-3.

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There are three additional wells, not operated by HFNR, that are within the AOR and inject into the same formation interval. These wells are the AAO Federal SWD No. 1 (API #30-015-42549,) operated by Apache Corporation, the Chalk Bluff Federal SWD #001 (API #30-015-27163) and Federal T SWD #1 (API #30-015-27163), both operated by Redwood Operating, LLC.

- a. **Identify the distance between the test well and any offset wells completed in the same injection interval** – WDW-2 is approximately 3,100 feet to the west-southwest, the Federal T SWD #1 is approximately 3,500 feet to the east-southeast, the Chalk Bluff Federal SWD #001 is approximately 2,300 feet to the east-northeast, and the AAO Federal SWD #001 is approximately 2,000 feet to the north-northeast.
- b. **Report the status of the offset wells during both the injection and shut-in portions of the test** - The offset HFNR wells were operated at a constant rate during testing. Data from the state website, last updated in June 2023 indicated average injection rates of approximately 28 gpm for the AAO Federal SWD #1, 147 gpm for the Chalk Bluff Federal SWD #001 and 189 gpm for the Federal T SWD #1.
- c. **Describe the impact, if any, of the offset wells during both the injection and shut-in portions of the test** - These offset injectors did not prevent conducting a useful test on the well, although late-time data is likely impacted by the start of non-radial flow effects. Further discussion of possible late-time effects is included in Section 15 of this report.

13. CHRONOLOGICAL LISTING OF THE DAILY TESTING ACTIVITIES

- a. **Date of the test** - Testing was performed from August 30 through September 1, 2023.
- b. **Time of the injection period** - Test injection occurred for approximately 48 hours before the falloff test began. This injection period exceeded the duration of the falloff.
- c. **Type of injection fluid** - Filtered waste was utilized for injection fluid.
- d. **Final injection pressure and temperature prior to shutting in the well** - Prior to shutting in the well, the bottom hole injection pressure was 4,310.1 psia (at 7,572 feet BGL) and the injection rate was 111.7 gpm (3,830.3 bpd) with a measured bottom hole temperature of 106.5 °F.
- e. **Total shut-in time** - The well was shut-in for approximately 44 hours for testing.
- f. **Final static pressure and temperature at the end of the falloff portion of the test** - At the conclusion of the test, the final bottom hole pressure was 4,211.7 psia and the final bottom hole temperature was 111.7 °F.

14. DESCRIBE THE LOCATION OF THE SHUT-IN VALVE USED TO CEASE FLOW TO THE WELL FOR THE SHUT-IN PORTION OF THE TEST

The well was shut-in using a wing valve located on the inlet side of the wellhead.

15. PRESSURE FALLOFF ANALYSIS

This section addresses requirements 15-19 of Section IX, Report Components, of the OCD's falloff test guidelines.

The equations, parameters and calculations utilized to derive these values are detailed further below. Table 5 contains input values used to perform the specified calculations.

The raw digital data collected during the test is provided in Attachment 7. The contracted service company that supplied the gauges used for testing generated an injection falloff test summary report based on the data that was collected. This report is provided in Attachment 4.

- a. **Radius of test investigation** - The radius of investigation for this test was determined to be 4,792 feet based on the average permeability derived from test analysis.
- b. **Time to beginning of the infinite acting portion of the test** - The time at which the test began to transition into radial flow was approximately 9 hours after shut-in. This value was derived from the semi-log plot.
- c. **Slope(s) determined from the semi-log plot** - The slope for this likely radial period, as determined by the semi-log plot, was 5.38 psi/cycle.
- d. **Transmissibility (kh/μ)** - The transmissibility was determined to be 115,729 md-ft/cp.
- e. **Permeability (k)** - The permeability was determined to be 370 md.
- f. **Skin Factor (s)** - The skin factor was determined to be 11.7 units.
- g. **Pressure drop due to skin (ΔP_{skin})** - The pressure drop due to skin was determined to be 54.5 psi
- h. **Flow efficiency** - The flow efficiency was determined to be 0.45.
- i. **Flow capacity (kh)** - The flow capacity (permeability-thickness) was determined to be 64,808 md-ft.
- j. **P_{1hr}** - The extrapolated 1-hr pressure was determined to be 4,220.4 psi.

Mechanical Integrity and Reservoir Testing
HollyFrontier Navajo Refining-Artesia, New Mexico - September 2023

TABLE 4
FALLOFF TEST ANALYSIS INPUT VALUES

| Parameter | Value | Unit |
|---------------------------------------|------------------|---------------|
| Formation Thickness, h | 175 | feet |
| Porosity, Φ | 10 | percent |
| Viscosity, μ | 0.56 | centipoise |
| Formation Compressibility, c_f | 8.20E-06 | 1/psi |
| Total Compressibility, c_t | 10.90E-06 | 1/psi |
| Formation Volume Factor, B | 1.00 | bbl/stb |
| Wellbore Radius, r_w | 0.3246 | feet |
| Final Well Flowing Pressure, p_{wf} | 4,310.1 | psia |
| Final Injection Rate, q_{final} | 3,830.3 111.7 | bwpd (gpm) |
| Horner Straight Line Slope, m | 5.38165 | psi/cycle |

The average historical injection period used to account for total volume in the analysis was calculated by dividing the cumulative historical injection through 6/22/2020 (21,187,321 barrels) by the final injection rate (47.0 gpm). This resulted in a value of 315,489 hours of injection at 47.0 gpm. This value was used in conjunction with the injection data collected from 6/22/2020 through 8/30/2023. The total waste volume injected up to the time of shut-in utilized for calculations was 1,065,463,051 gallons (25,368,168 bbls).

To determine the mobility-thickness (transmissibility), the following equation was utilized. The resulting transmissibility was 115,729 md-ft/cp.

$$\frac{kh}{\mu} = 162.6 \frac{q_{final} B}{m}$$

Where,

k is the permeability, in md

h is the formation thickness, in feet

μ is the viscosity of the formation fluid, in cp

q is the final flow rate, in bpd

B is the formation volume factor in RB/STB

m is the slope of the line assigned to the radial flow period on the semi-log plot, in psi/cycle

and 162.6 is a unit conversion constant

$$\frac{kh}{\mu} = \text{Transmissibility} = 162.6 \frac{3,830.3 * 1.0}{5.38165} = 115,729 \frac{\text{md} - \text{ft}}{\text{cp}}$$

Mechanical Integrity and Reservoir Testing
HollyFrontier Navajo Refining-Artesia, New Mexico - September 2023

The transmissibility was then used to determine the permeability thickness. The resulting permeability-thickness was 64,808 md-ft.

$$kh = \left(\frac{kh}{\mu}\right) \mu = 115,729 \left(\frac{md - ft}{cp}\right) 0.56 cp = 64,808 md - ft$$

The permeability thickness was then used to determine the permeability of the reservoir. The resulting permeability was 370 md.

$$k = \frac{kh}{h} = \frac{64,808 md - ft}{175 ft} = 370 md$$

In order to determine if the proper viscosity was utilized in the previous calculations, it must be determined if the pressure transient was traveling through reservoir fluids. This is done by determining the time it is expected to take the pressure transient to travel through the injected fluid. The first step of this is to determine the radius of waste emplaced by injection. The piston-like displacement resulting radius was estimated to be 1,610 feet.

$$r_{waste} = \sqrt{\frac{0.13368 * V}{\pi h \Phi}}$$

Where,

r_{waste} is the distance to the waste front, in feet
 V is the total volume of fluid injected into the well, in gallons
 h is the formation thickness, in feet
 Φ is the porosity, as a fraction
 0.13368 is a conversion constant

$$r_{waste} = \sqrt{\frac{0.13368 * (1,065,63,051)}{\pi * 175 * 0.10}} = 1,610 feet$$

Based on this radius, the time for a pressure transient to travel through this fluid can be calculated. The resulting time was 4.05 hours.

$$t_{waste} = 948 \frac{\Phi \mu_{waste} c_t r_{waste}^2}{k}$$

Where,

t_{waste} is the time for a pressure transient to reach the waste front, in hours
 Φ is the porosity, as a fraction
 μ_{waste} is the viscosity of the waste, in cp

r_{waste} is the radius of the waste front, in feet
 c_t is the total compressibility, in psi^{-1}
 k is the permeability, in md
 948 is a conversion constant

$$t_{waste} = 948 \frac{0.10 * 0.56 * 10.90E - 06 * (1,610)^2}{370.3} = 4.05 \text{ hours}$$

Based on this result, and the time it took for radial flow to be reached (~9 hours), it is known that the pressure transient was traveling through reservoir fluid during the middle-time radial flow period, indicating that the appropriate viscosity was used for analysis.

The near wellbore damage, referred to as skin, can be calculated based on the results of the straight line, semi-log analysis as well. This is done by utilizing the following equation. The result of this calculation was 11.7 units.

$$s = 1.151 \left(\frac{P_{wf} - P_{1hr}}{m} - \log \left(\frac{k}{\Phi \mu c_t r_w^2} \right) + 3.23 \right)$$

Where,

s is skin damage, in units
 P_{wf} is the shut-in well pressure, in psi
 P_{1hr} is the extrapolated pressure at a time of 1 hour, using the slope of the straight line from the semi-log analysis, in psi
 m is the slope of the radial line, in psi/cycle
 k is the permeability, in md
 Φ is the porosity, as a fraction
 μ is the viscosity, in cp
 r_w is radius of the wellbore in feet
 1.151 and 3.23 are constants

$$s = 1.151 \left(\frac{4,310.1 - 4,220.4}{5.38165} - \log \left(\frac{370.3}{0.10 * 0.56 * 10.90E - 06 * 0.3246^2} \right) + 3.23 \right) = 11.7$$

The change in pressure, due to skin, in the wellbore can be calculated using the following equation. The result of this calculation was 54.5 psi of pressure due to skin.

$$\Delta P_{skin} = 0.869 * m * s$$

Where,

ΔP_{skin} is the change in pressure due to skin damage, in psi
 m is slope of the radial line, in psi/cycle
 s is skin, in units
 0.869 is a conversion constant

$$\Delta P_{skin} = 0.869 * 5.38165 * 11.7 = 54.5 \text{ psi}$$

The flow efficient (FE) can be determined using the following equation, provided within the OCD Guidelines (Section IX, 15, h). The result of this calculation was 0.45.

$$FE = \frac{P_{wf} - \Delta P_{skin} - P_{end \text{ of test}}}{P_{wf} - P_{end \text{ of test}}}$$

Where,

P_{wf} is the shut-in well pressure, in psi
 ΔP_{skin} is the change in pressure due to skin damage, in psi
 $P_{end \text{ of test}}$ is the pressure at the end of the falloff test, in psi

$$FE = \frac{4,310.1 - 54.5 - 4,211.7}{4,310.1 - 4,211.7} = 0.45$$

The test radius of investigation (r_{inv}) can be determined using the following equation. The result of this calculation was 4,792 feet.

$$r_{inv} = 0.029 \sqrt{\frac{kt}{\Phi \mu c_t}}$$

Where,

k is permeability, in md
 t is time, in hours
 Φ is porosity, as a fraction
 μ is viscosity, in cp
 c_t is total compressibility, in psi^{-1}
 0.029 is a constant

$$r_{inv} = 0.029 \sqrt{\frac{370.3 * 44.4}{0.1 * 0.56 * 10.90E - 06}} = 4,792 \text{ feet}$$

Based on examination of the superposition time semi-log diagnostic plot provided as Figure 10, the test reached what appears to be radial flow approximately 9 hours after shutting the well in. Early-time data was dominated by wellbore storage for more than the first hour of the test. The test has been analyzed using the analytical Horner semi-log method based on the reasonable assumption that a period of radial flow exists in the data. Figure 10 presents a simple analysis consistent with the pseudo straight-line analysis equations presented in the preceding text. Figure 9 presents a simulation analysis generated for a limited-entry, homogenous radial flow system. The simulation analysis generally supports the more simplistic graphical analysis based on the linear portion of the semi-log plot.

Toward the end of the test it is possible that a late-time period may be developing where the effects of heterogeneity, multi-layer crossflow or offset injection interference may be starting to influence the test. However, the substantial permeability-thickness of this injection zone yield small pressure changes during both middle- and late-time periods of the test that generate a somewhat noisy derivative even with the high-resolution gauges used to collect the pressure-transient data. The character of the fall-off data and the derivative are similar to the patterns evident in previous testing of this well.

The following figures are provided:

- Figure 6 - Cartesian Plot of Pressure, Temperature and Rate vs. Time
- Figure 7 - Full Rate History Plot
- Figure 8 - Cartesian Plot of Pressure Falloff with Model Match
- Figure 9 - Log-log Derivative Plot with Model Match
- Figure 10 - Semi-log Horner Plot with Model Match
- Figure 11 - Daily Injection Rate History for Month Prior to Test Plot
- Figure 12 - Hall Plot

As specified by OCD requirements, a Hall Plot (Figure 12) generated from the data presented in Table 2 over the month leading up to the falloff test this year is presented. It is noted that this plot of a limited elapsed time of the Hall function is a simplistic presentation based on correcting average daily wellhead pressures to bottomhole conditions based on hydrostatic head and tubing friction loss. The plot has been made with this raw BHP rather than a pressure change (or dp) that would be generated by subtracting original reservoir pressure from the injection pressure value. Because this BHP value is used, the Hall plot slope is not proportional to other indicators, but qualitatively can yield insight to well conditions based on changing slopes. Further, consistent with the Hall method, it is assumed that the reservoir is homogenous and isotropic, that none of the average daily pressures are impacted by transient flow (relatively continuous, constant-rate injection took place), and that no offset wells are impacting pressure at this well

during the time that the Hall function has been plotted. The slope of the data is fairly linear, and this linearity is consistent with no significant changes in well condition taking place during this time period. Based on this observed linear trend, there are no current concerns noted with regard to well or reservoir performance.

Table 6 contains all historical well test analysis results, including the results from the test this year. Attachment 5 presents a summary of the falloff test analysis.

**TABLE 5
 HISTORICAL AMBIENT RESERVOIR TESTING**

| Year | Fill Depth (feet) | Permeability (md) | Mobility-thickness (md-ft/cp) | Skin (units) | P* (psia) |
|--------|-------------------|-------------------|-------------------------------|--------------|-----------|
| 2023 | 8,627 | 370 | 115,729 | 11.7 | 4,193.9 |
| 2022 | 8,657 | 463 | 144,601 | 20.6 | 3,998.4 |
| 2021 | 8,604 | 630 | 197,009 | 37.3 | 3,969.1 |
| 2020 | 8,639 | 174 | 49,010 | 11.8 | 4,069.4 |
| 2019 | 8,632 | 340 | 104,265 | 12.0 | 4,170.0 |
| 2018 | 8,632 | 366 | 112,323 | 8.8 | 4,287.6 |
| 2017 | 9,060 | 533 | 163,612 | 12.2 | 4,259.3 |
| 2016 | 9,093 | 409 | 125,443 | 8.1 | 4,281.0 |
| 2014 | 8,946 | 730 | 224,096 | 10.5 | 4,351.6 |
| 2012 | 8,972 | 1,248 | 383,087 | 8.3 | 3,941.9 |
| 2012 | 8,986 | 597 | 183,293 | 27.3 | 3,792.3 |
| 2010 | 8,986 | 568 | 174,376 | 14.6 | 3,622.2 |
| 2009 | 8,986 | 719 | 233,008 | 54.1 | 3,475.7 |
| 2008 | NA | 1,322 | 321,411 | 107 | 3,430.3 |
| Permit | NA | 250 | 40,094 | NA | NA |

All raw data generated by the test will be kept on file by HFNR for a period not less than five years. The raw data has been provided as a part of this report, with additional files available upon OCD request.

16. INTERNAL MECHANICAL INTEGRITY

On June 16, the annulus was pressurized to approximately 587 psi to begin the test. A calibrated digital pressure gauge (Crystal XP2i, 5,000 psi, SN - 901241) supplied by Petrotek was installed on the annulus at the wellhead. The well and

Mechanical Integrity and Reservoir Testing
HollyFrontier Navajo Refining-Artesia, New Mexico - September 2023

test gauge were then isolated from the rest of the system and annulus pressure, injection pressure and injection rate were then monitored for a period of thirty minutes at 5-minute intervals. During the Part I internal mechanical integrity test the pressure decreased by 15.8 psi. Since a change of 10% (58.7 psi) of the starting test pressure is allowable, this test is within acceptable specifications.

Attachment 2 presents a copy of the gauge certification. Pressures were observed as follows during testing.

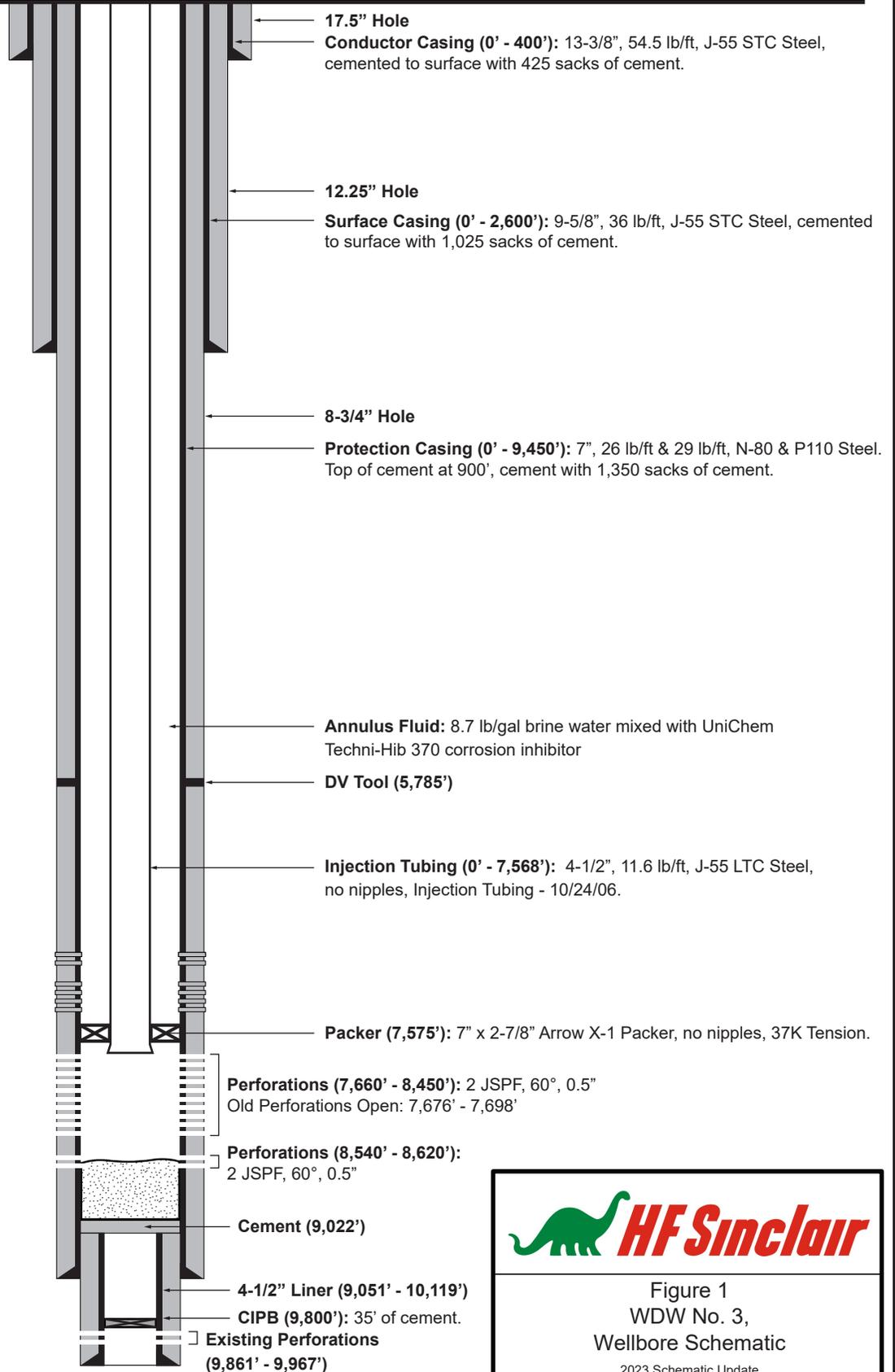
TABLE 7
ANNULUS PRESSURE TEST MEASUREMENTS

| Time, Minutes | 0 | 5 | 10 | 15 | 20 | 25 | 30 |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|
| Annulus Pressure, Psi | 587.3 | 582.4 | 580.0 | 577.2 | 574.4 | 573.3 | 571.5 |

FIGURES

Petrotek

OCD UIC Permit: UICI-008-3
 Well API Number: 30-015-26575
 Eddy County, New Mexico
 Sec. 31, T18S-R27E
 Lat. 32.771186° / Long. -104.233306° (NAD 83)



Wellbore information from:
 Gaines Well #3 Navajo
 Refining schematic by
 Subsurface Technology, 2009.

NOT TO SCALE

Top of Fill:
 8,604' (Tagged 8/2021)
PBTD: 9,022'
TD: 10,119'



Figure 1
 WDW No. 3,
 Wellbore Schematic

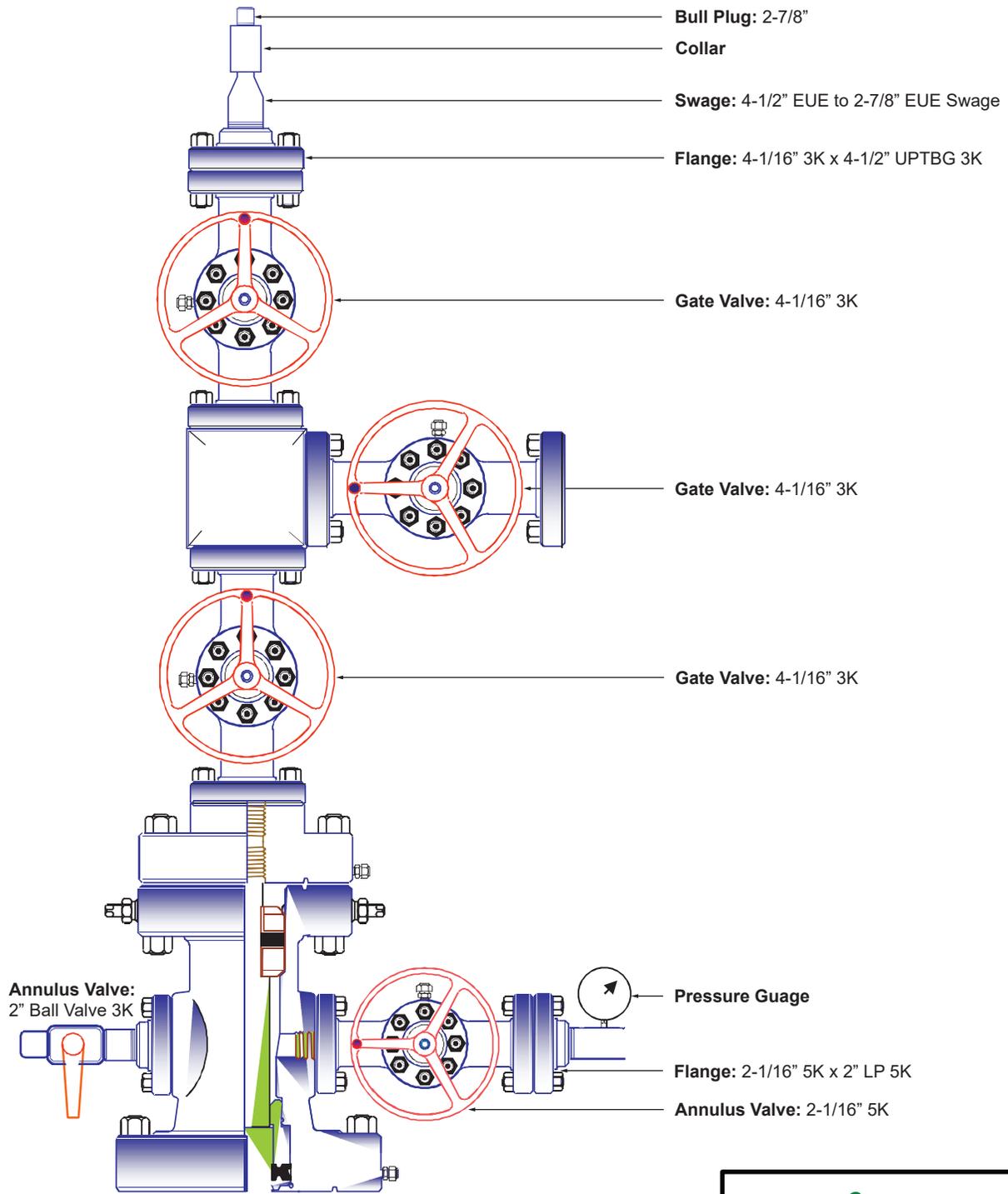
2023 Schematic Update

| | |
|-----------------------------------|-----------------------|
| Scale: NTS | Date: September 2023 |
| Fig_01_HF_Artesia_2023_WDW_03.pdf | By: WEK Checked: LW |

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www.petrotek.com

OCD UIC Permit: UICI-008-3
Well API Number: 30-015-26575
Eddy County, New Mexico
Sec. 31, T17S-R27E
Lat. 32.771186° / Long. -104.233306° (NAD 83)



Well Head information partially
from: Well: Navajo Refining
WDW #3, by Subsurface Technology.

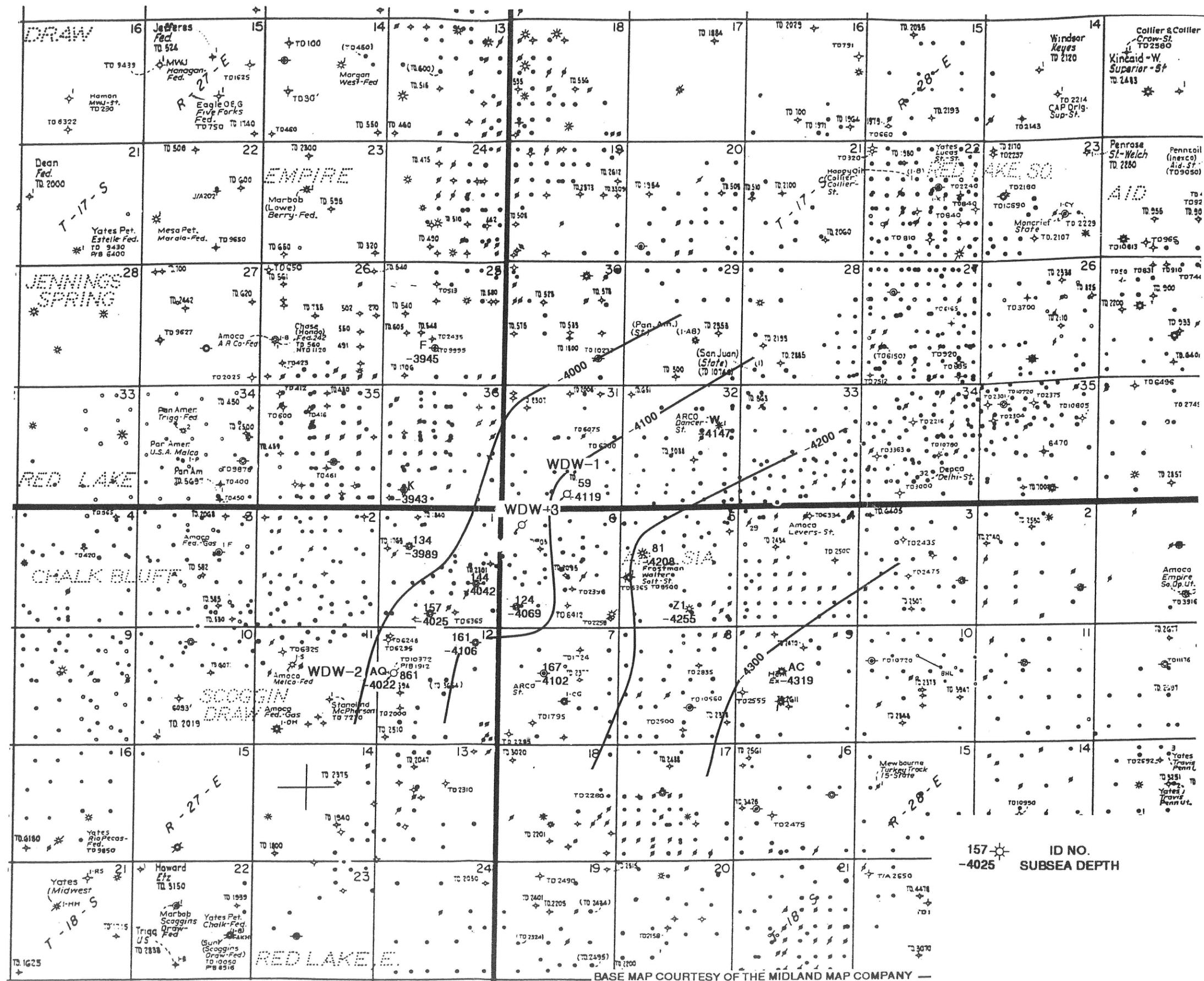
NOT TO SCALE



Figure 2
WDW No. 3,
Wellhead Schematic
2023 FOT/MIT Report

| | |
|-----------------------------------|-----------------------|
| Scale: NTS | Date: September 2023 |
| Fig_02_HF_Artesia_2023_WDW_03.pdf | By: WEK Checked: LW |

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Littleton, Colorado 80127 USA
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BASE MAP COURTESY OF THE MIDLAND MAP COMPANY

HF Sinclair

Figure 4
Cisco Formation Structure Map

2023 FOT/MIT Report

| | |
|--------------------------------|----------------------|
| Contour Interval = 100' | Date: September 2023 |
| Fig_04_HF_Artesia_2023_FOT.pdf | By: WEK Checked: LW |

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Adapted from Navajo Refining Co., Attachment VIII-13, Structure - Top of Cisco Formation, Envirocorp, 1998.

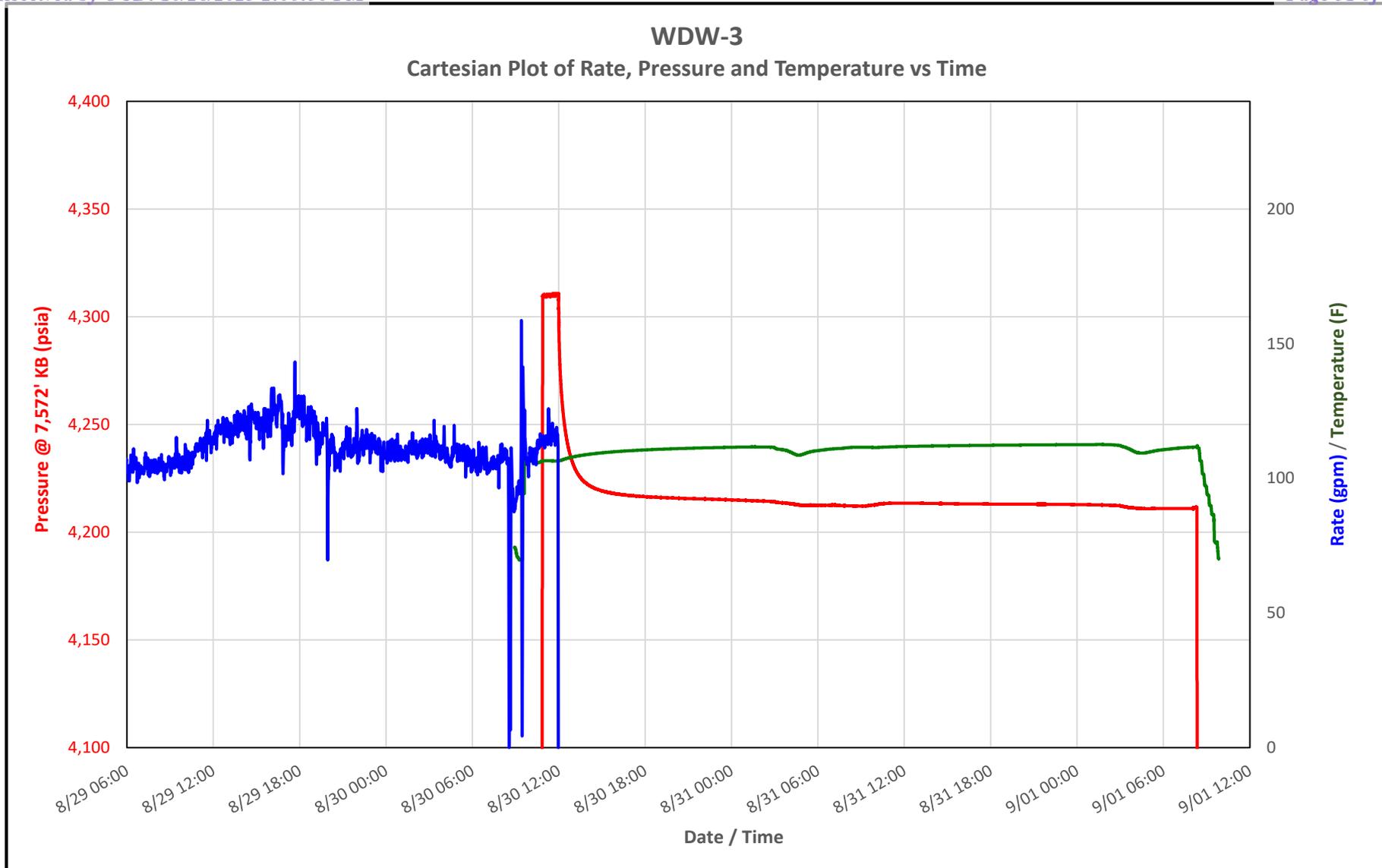


Figure 6

Cartesian Plot of Rate, Pressure and Temperature vs Time
2023 Well Testing



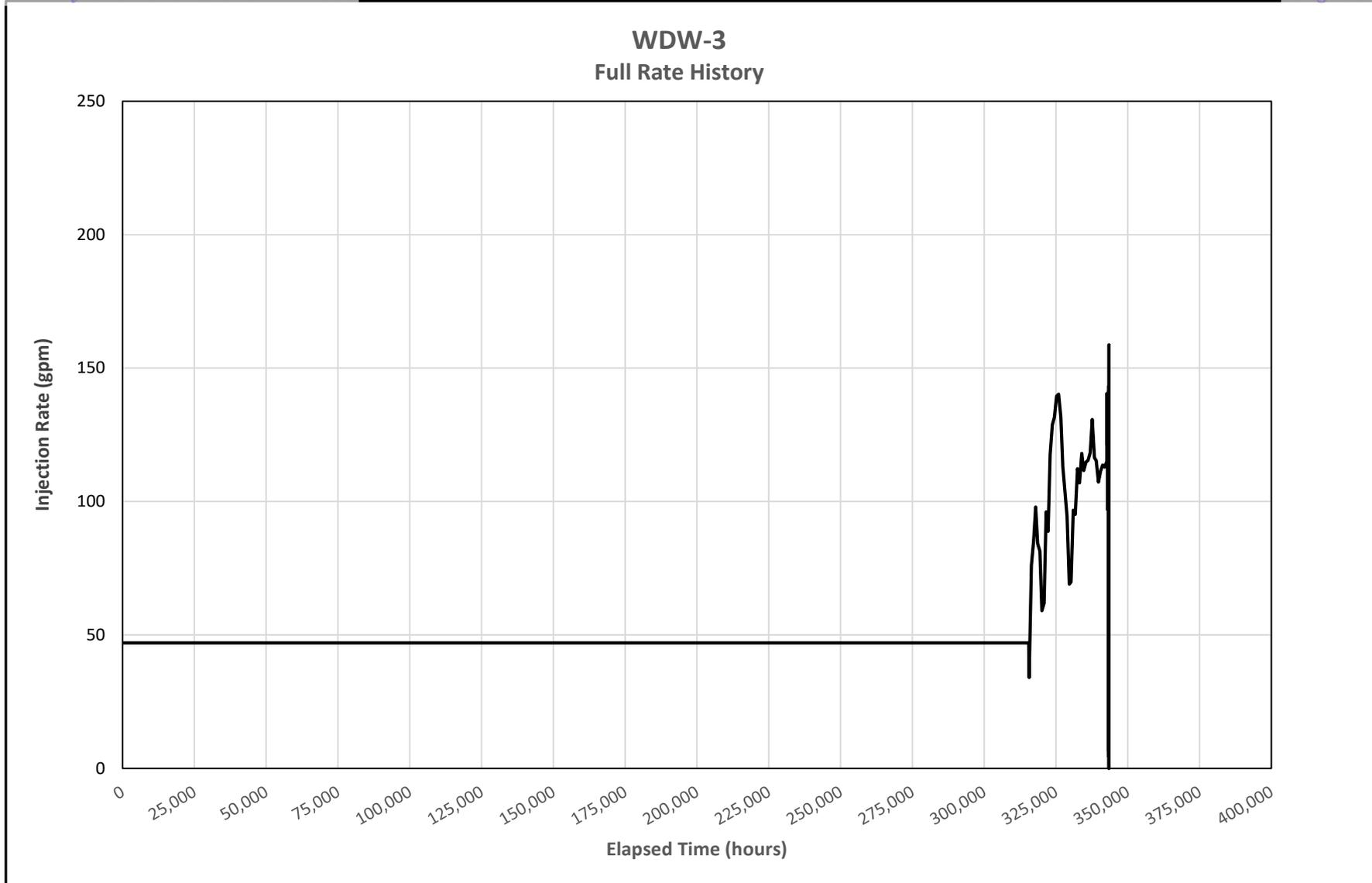


Figure 7
Full Rate History
2023 Well Testing



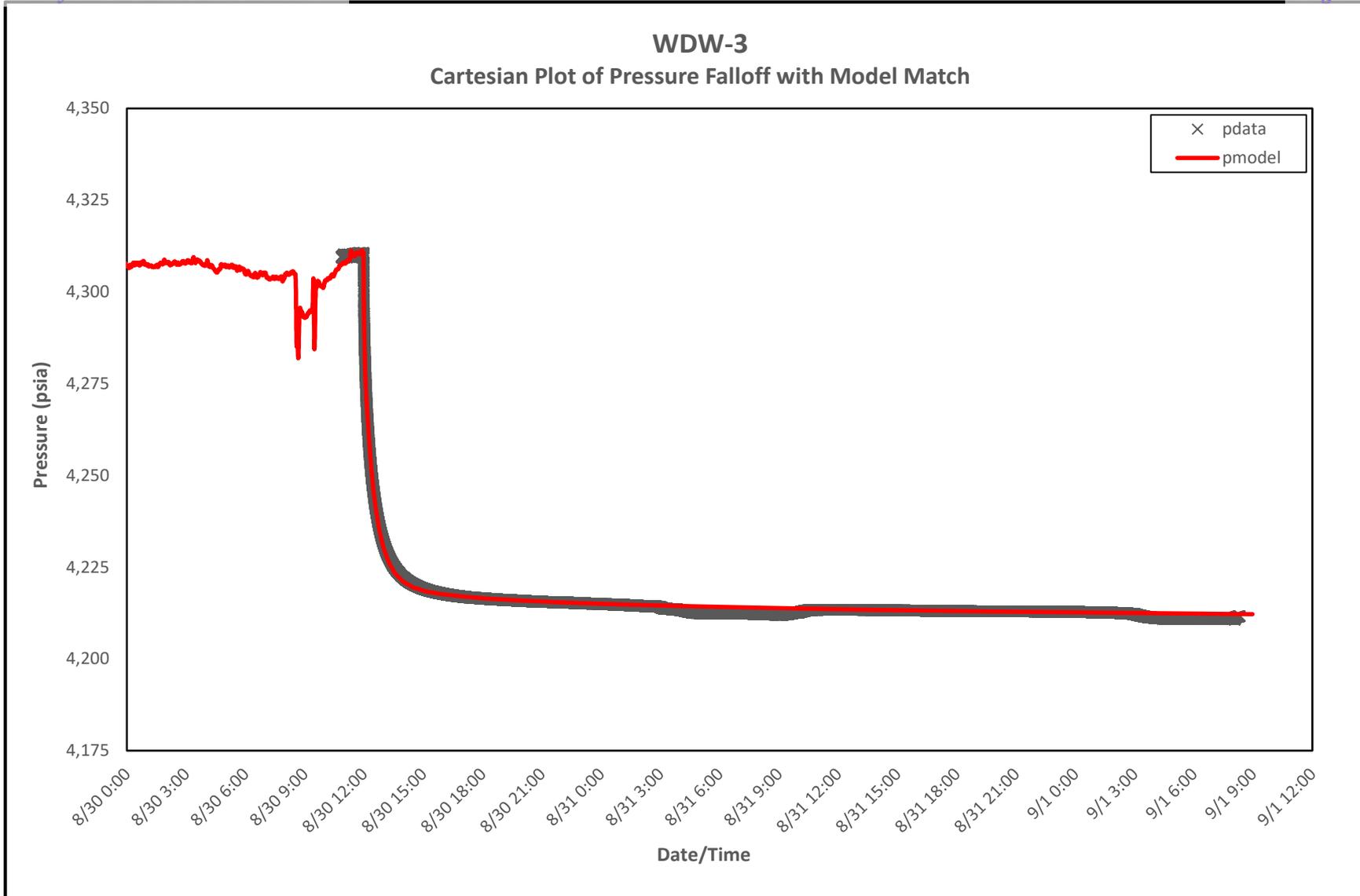


Figure 8

Cartesian Plot of Pressure Falloff with Model Match
2023 Well Testing



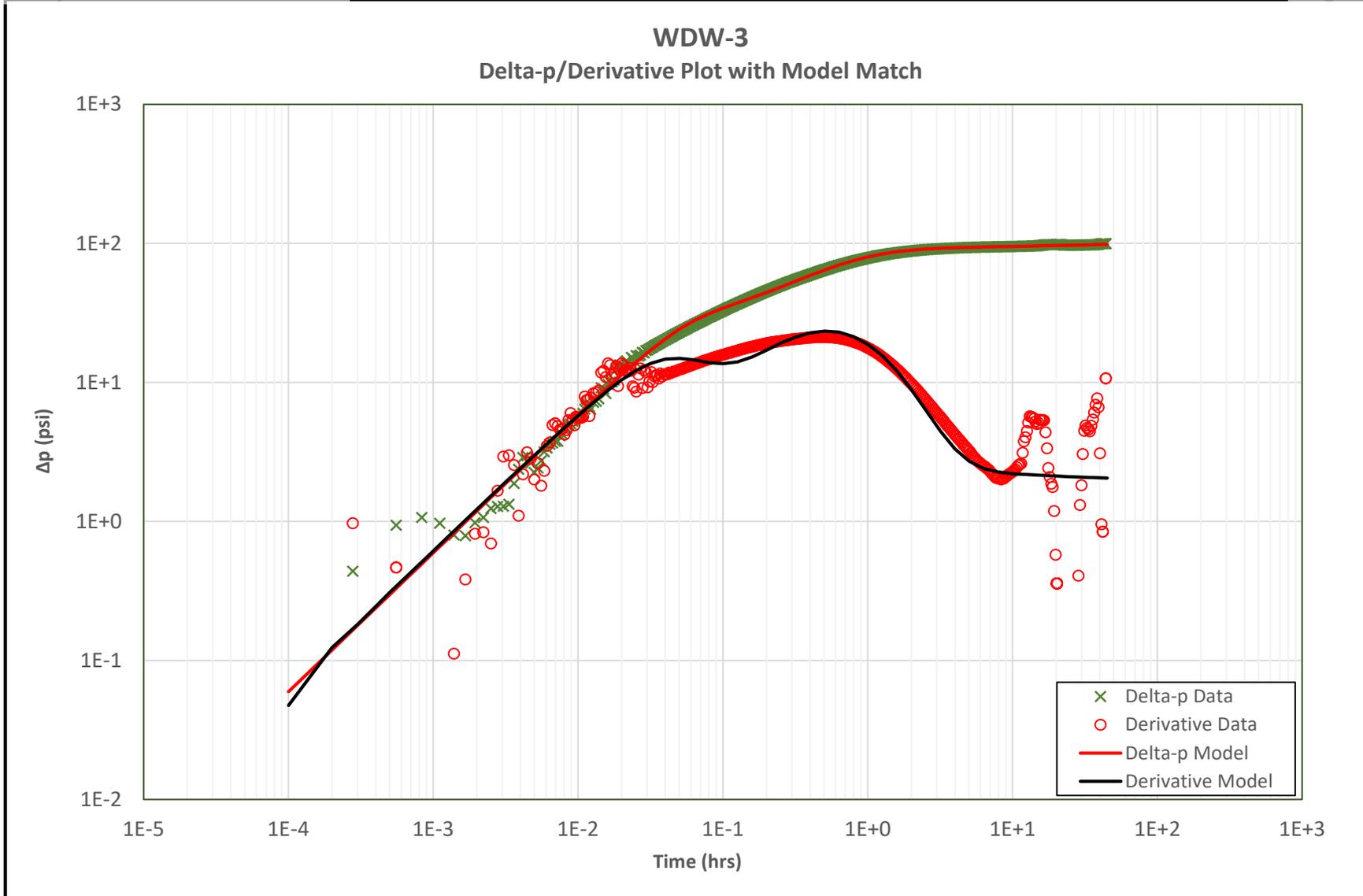


Figure 9

Delta-p/Derivative Plot with Model Match
2023 Well Testing



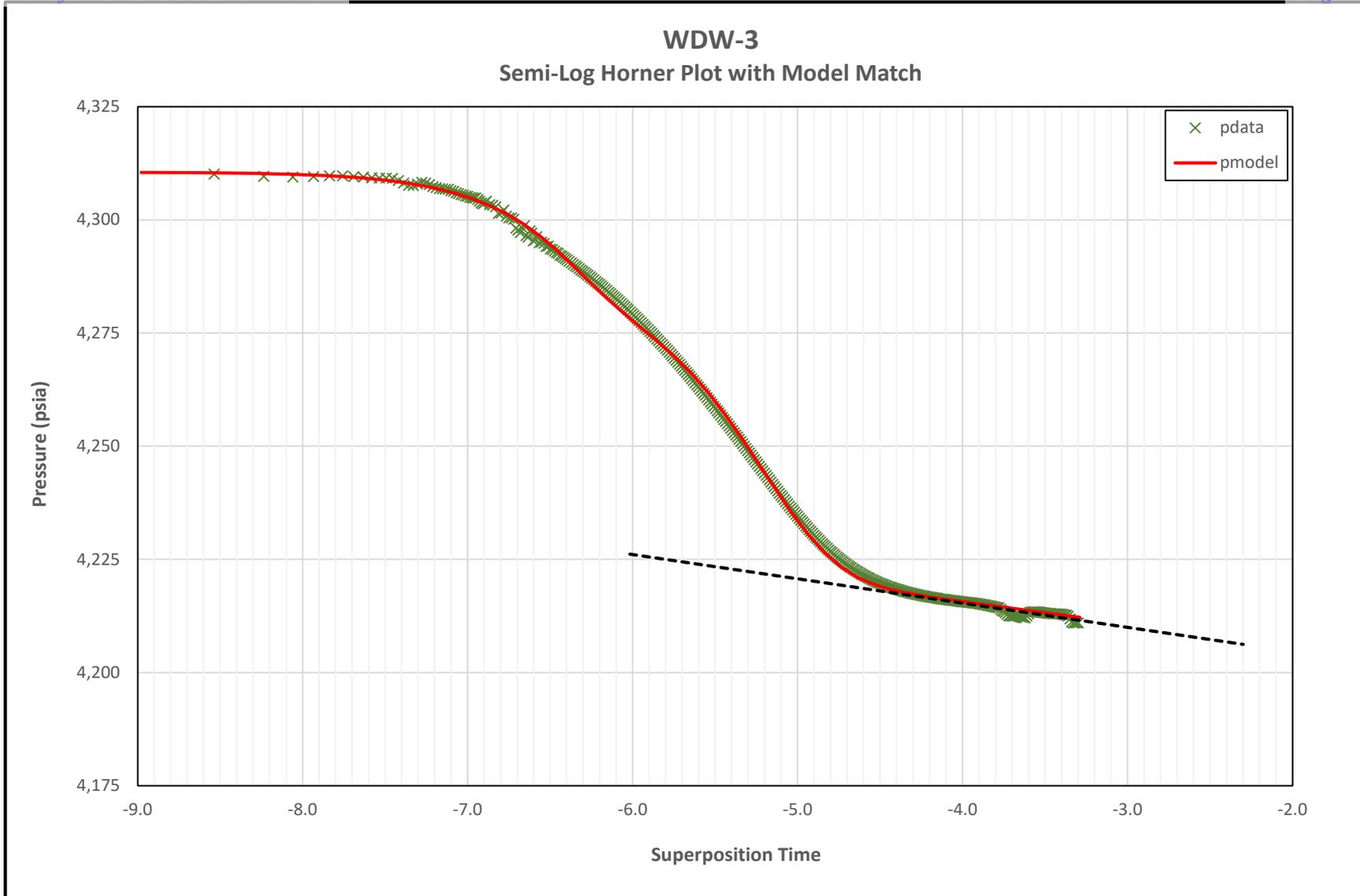


Figure 10

Semi-Log Horner Plot with Model Match
2023 Well Testing



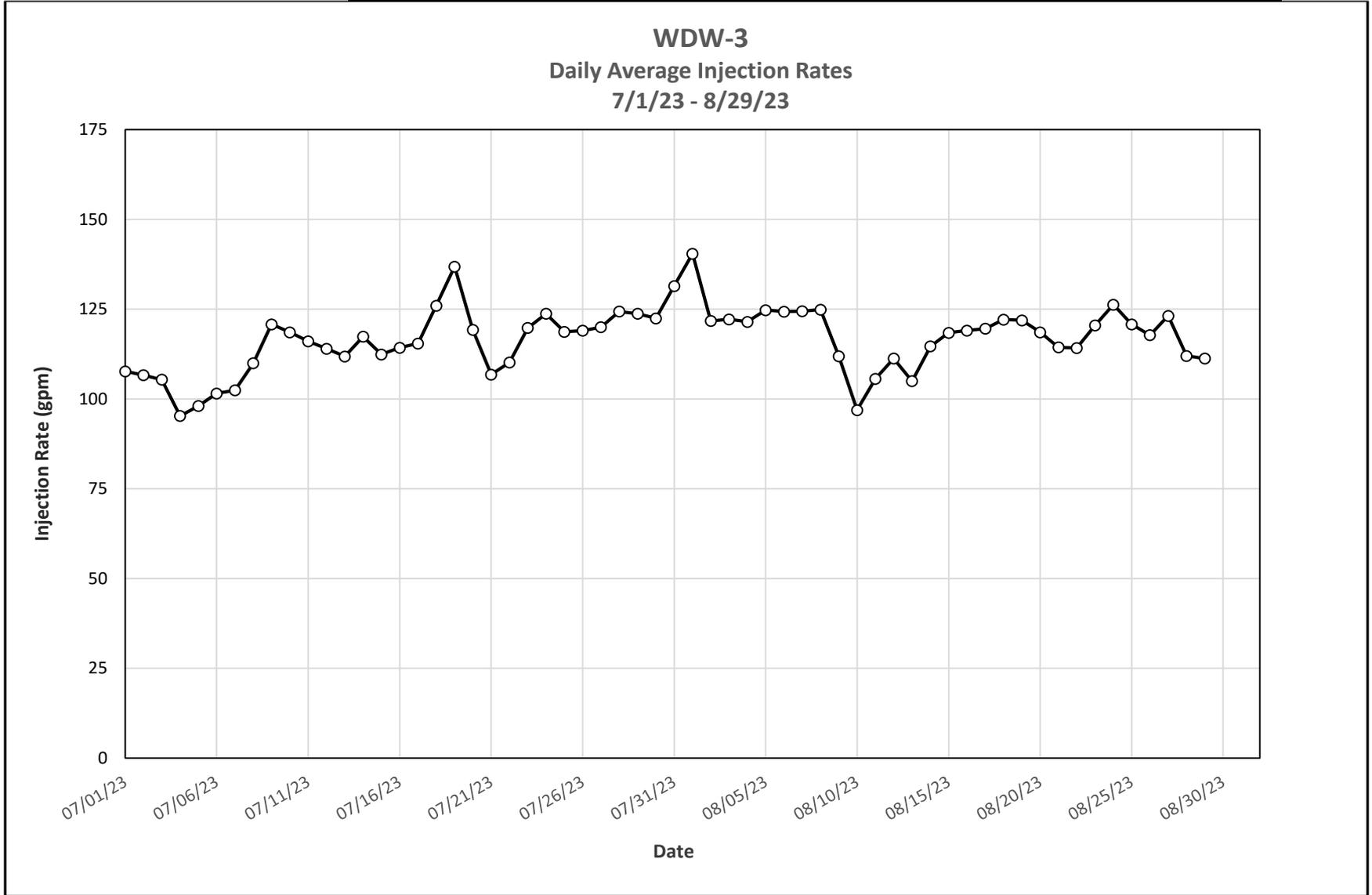


Figure 11
Daily Average Injection Rates
2023 Well Testing



WDW-3
Hall Plot
7/1/23 - 8/29/23

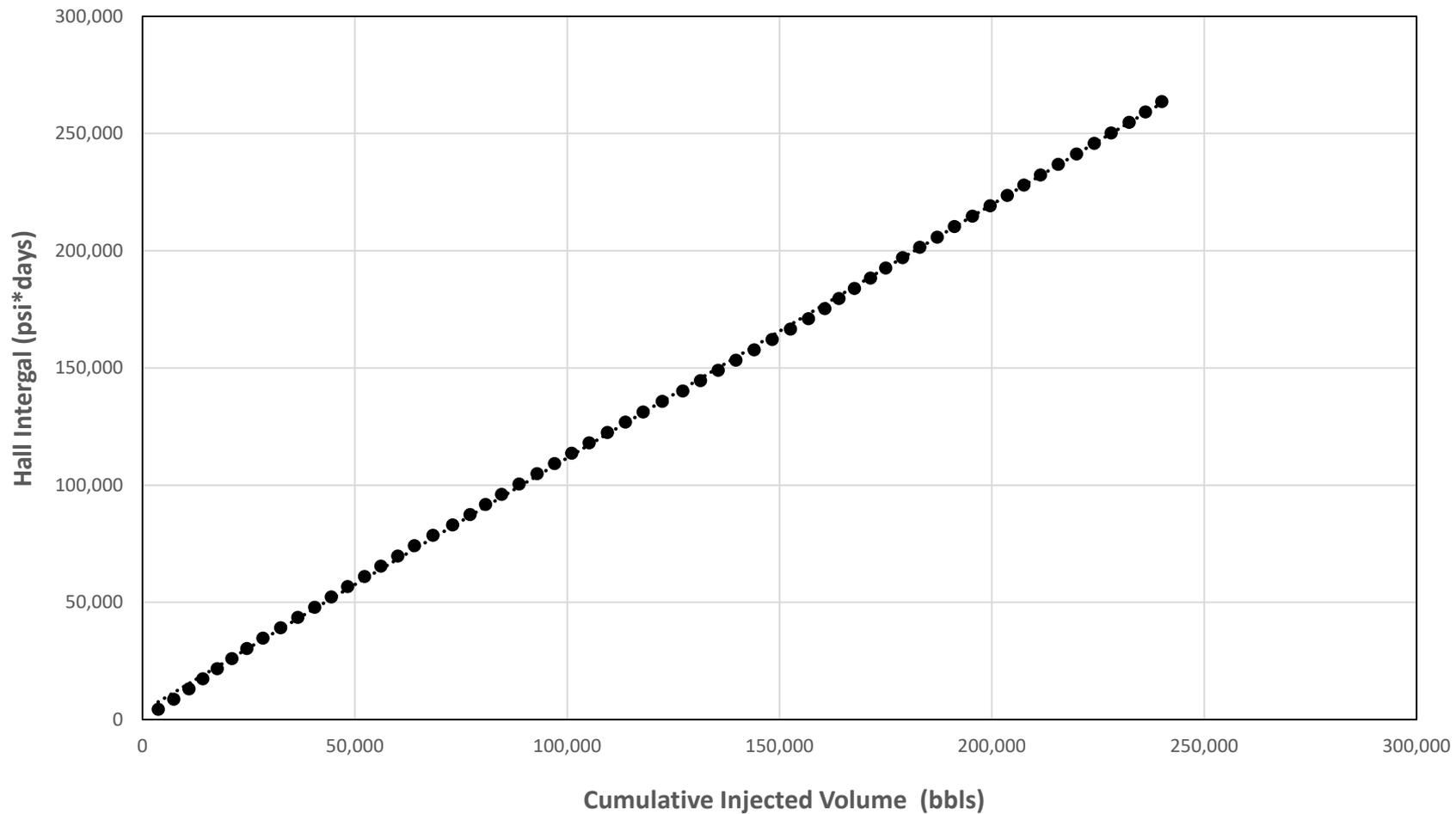
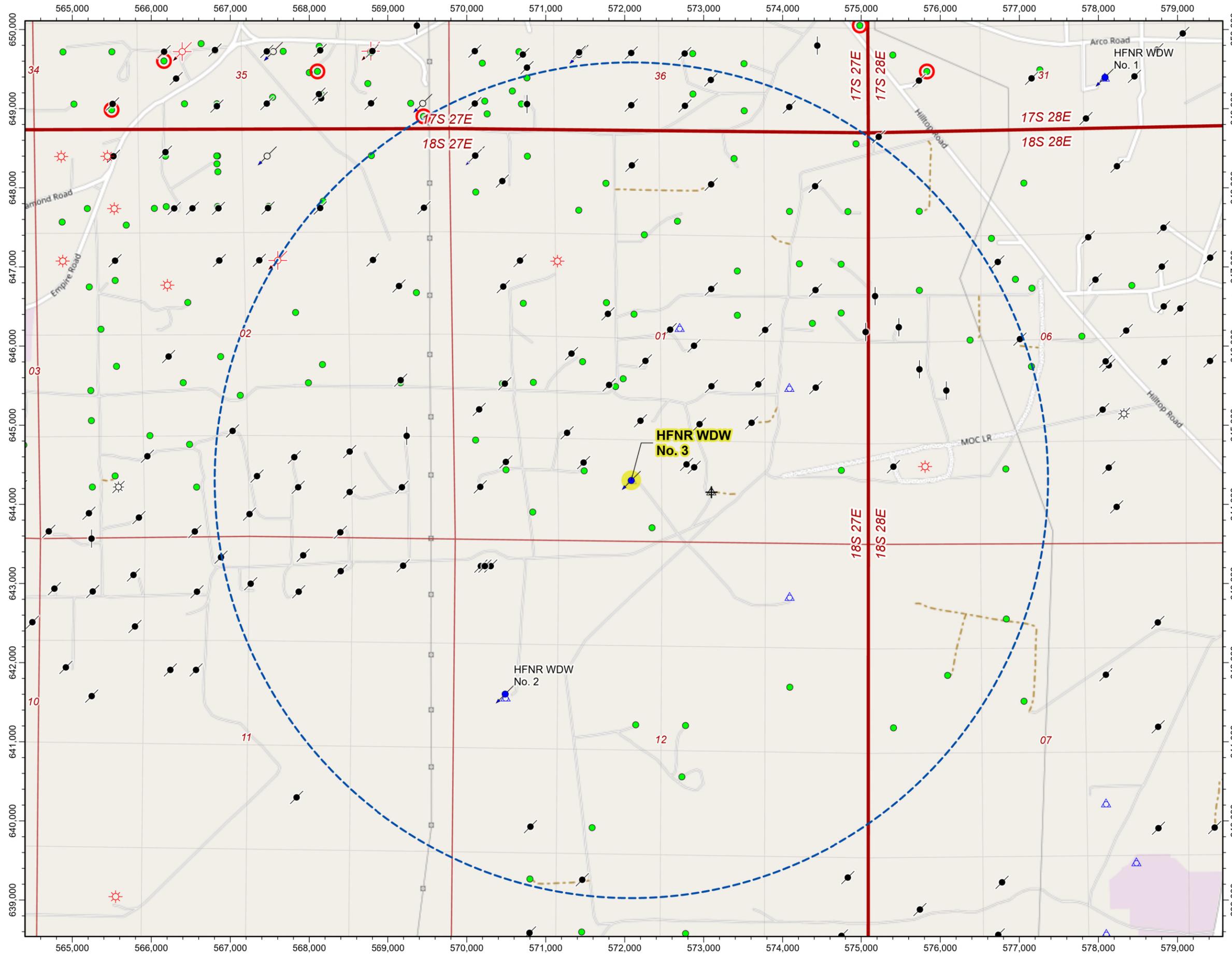


Figure 12
Hall Plot
2023 Well Testing





HollyFrontier Navajo Refining Wells

- HFNR WDW No. 3
- HFNR WDW Location

Area of Review

- One-Mile Radius

Oil & Gas Wells (NM EMNRD OCD)

- Active Injection Well
- Plugged Injection Well
- Active Salt Water Disposal
- Plugged Salt Water Disposal
- Active Oil Well
- New Oil Well
- Temporary Abandonment Oil Well
- Plugged Oil Well
- Active Gas Well
- Plugged Gas Well

Note:
One-Mile radius extends from HFNR WDW No. 2.

Oil & Gas well data from the EMNRD, OCD GIS Public FTP Site, accessed and downloaded 08/08/2023. Last updated by EMNRD 01/17/2023.

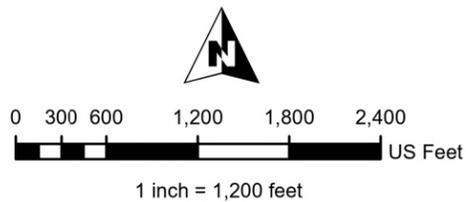




Figure 13
WDW No. 3, One-Mile AOR Map

2023 FOT/MIT Report

| | |
|-------------------------------|----------------------|
| Scale: 1:14,400 | Date: September 2023 |
| Fig_13_HF_Artesia_2023_WDW_03 | By: WEK Checked: LW |



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Littleton, Colorado 80127 USA
303-290-9414
www.petrotek.com

XY Coordinate System: NAD 1983 StatePlane New Mexico East FIPS 3001 (US Feet)

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ATTACHMENTS

Petrotek

Attachment 1 OCD Test Notification

Petrotek

Submit a Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-015-26575
5. Indicate Type of Lease
STATE [X] FEE []
6. State Oil & Gas Lease No.
B-2071-28

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)
1. Type of Well: Oil Well [] Gas Well [] Other: INJECTION WELL
2. Name of Operator
HF SINCLAIR NAVAJO REFINERY LLC
3. Address of Operator
P.O. Box 159, Artesia, NM 88210
4. Well Location
Unit Letter N 790 feet from the SOUTH line and 2,250 feet from the WEST line
Section 1 Township 18S Range 27E NMPM County: EDDY
11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3,609' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK [] PLUG AND ABANDON []
TEMPORARILY ABANDON [] CHANGE PLANS []
PULL OR ALTER CASING [] MULTIPLE COMPL []
DOWNHOLE COMMINGLE []
CLOSED-LOOP SYSTEM []
OTHER: PRESSURE FALLOFF TEST / MIT [X]
SUBSEQUENT REPORT OF:
REMEDIAL WORK [] ALTERING CASING []
COMMENCE DRILLING OPNS. [] P AND A []
CASING/CEMENT JOB []
OTHER: []

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

June 25, 2023; Day 1: Begin constant-rate injection (+/- 10%) into GAINES WDW-3 as well as the three (3) offset wells for at least 30 hours prior to shut-in of WDW-3 for falloff testing. Target rate for WDW-3 is approximately 160 gpm. Wellhead pressure will not exceed 1,400 psig. Plant personnel will record rate, volume and pressure during the constant-rate injection period to ensure steady flow for analysis. Samples of the injectate will be collected approximately every 10 hours and analyzed for pH and specific gravity.

June 26, 2023; Day 2: Continue constant-rate injection into all four (4) wells.

June 27, 2023; Day 3: While injection continues, run dual downhole memory gauges to test depth making flowing gradient stopes every 1,000 feet. Collect pressure data at test depth for at least 1 hour while injecting at constant rate. Shut in WDW-3 and collect falloff data for a minimum of 30 hours. WDW-1, WDW-2 and WDW-4 will continue injection at constant rate until downhole memory gauges are pulled from WDW-3.

June 28, 2023; Day 4: WDW-3 will remain shut-in while collecting falloff pressure data using downhole memory gauges.

June 29, 2023; Day 5: After a minimum of 30 hours of falloff data collection, remove gauges from the well making 5-minute gradient stops every 1,000 feet. Note the top of fill will be tagged either with gauges prior to pulling from the well, or on a second run with sinker bars after gauges are removed (TBD). Conduct MIT for a minimum of 30 minutes recording data electronically. Rig down wireline and return well to service.

Spud Date: []

Rig Release Date: []

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE _____ TITLE _____ DATE _____

Type or print name _____ E-mail address: _____ PHONE: _____

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Attachment 2 Annulus Pressure Gauge Certification

Petrotek



7200 E. Dry Creek Rd, STE C-102, Centennial, CO 80112

Ph. 303-804-0667 Cal.Lab@Apex-Instruments.com

Calibration Certificate

Certificate Number: 232833

Customer:

Petrotek
Littleton, CO

Manufacturer: Crystal Engineering
Model Number: XP2i 5000 psi
Serial Number: 212165
Description: Digital Test Gauge
Procedure: CI-001
Calibrated To: Manufacturer's Specifications
Technician: Ben Campbell

Calibration Date: 6/13/2023
Due Date: 6/13/2024
As Found: In Tolerance
As Left: As Found
Temperature: 71.5 F
Humidity: 45.8 %
Issue Date: 6/13/2023

Tolerance Specs:

0 - 20%: +/- (0.02% of FS)
 20% - 100%: +/- (0.1% of Rdg)

Technician Notes:

As Left Userspan: 1.00000

Approved Signatory: Ben Campbell

Apex Instruments certifies that the instrument listed above meets the specifications of the manufacturer at the completion of its calibration. The calibrations within the certificate are traceable through NIST or another National Metrology Institute to the International System of Units (SI).

Methods used are in accordance with the procedure listed above. This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

Unless otherwise contractually specified, a binary decision rule, utilizing simple acceptance, and simple rejection criteria will be used for the determination of compliance. When compliance statements are present, they are reported without factoring in the effects of uncertainty and the limits are defined by the manufacturer's stated accuracy.

This certificate does not guarantee the continued performance of the instrument listed above. Any modifications or services performed hereafter may void this certificate.

This certificate applies only to the item listed above and is not to be reproduced other than in full, except with prior written approval from Apex Instruments Inc.



Standards Used

| Description | Model Number | Serial Number | Calibration Date | Due Date | ID |
|------------------------------|-----------------------|---------------|------------------|-----------|----------|
| Electronic Deadweight Tester | RPM4-E-DWT A100M/A10M | 1709 | 8/31/2022 | 8/31/2023 | APX00024 |
| Temp / RH Datalogger | UX100-011 | 21284718 | 9/28/2022 | 9/26/2023 | APX09582 |

Compass Import

Gauge Pressure

Test Description

| Test Description | Nominal | As Found - As Left | | UUT Error | Status |
|------------------|-------------|--------------------|-----------------|-----------|--------|
| | | Test Results | Tolerance (+/-) | | |
| 0 | -0.02 psi | 0.00 psi | 1.00 psi | 0.02 psi | Pass |
| 1000 | 999.91 psi | 999.90 psi | 1.00 psi | -0.01 psi | Pass |
| 2000 | 2000.10 psi | 2000.11 psi | 2.00 psi | 0.01 psi | Pass |
| 3000 | 3000.02 psi | 3000.04 psi | 3.00 psi | 0.02 psi | Pass |
| 4000 | 3999.89 psi | 3999.96 psi | 4.00 psi | 0.07 psi | Pass |
| 5000 | 5000.03 psi | 5000.43 psi | 5.00 psi | 0.40 psi | Pass |
| 4000 | 4000.04 psi | 4000.38 psi | 4.00 psi | 0.34 psi | Pass |
| 3000 | 3000.11 psi | 3000.44 psi | 3.00 psi | 0.33 psi | Pass |
| 2000 | 2000.04 psi | 2000.31 psi | 2.00 psi | 0.27 psi | Pass |
| 1000 | 1000.39 psi | 1000.60 psi | 1.00 psi | 0.21 psi | Pass |
| 0 | 0.09 psi | 0.30 psi | 1.00 psi | 0.21 psi | Pass |

— End of measurement results—



Attachment 3 Downhole Pressure Gauge Certifications

Petrotek

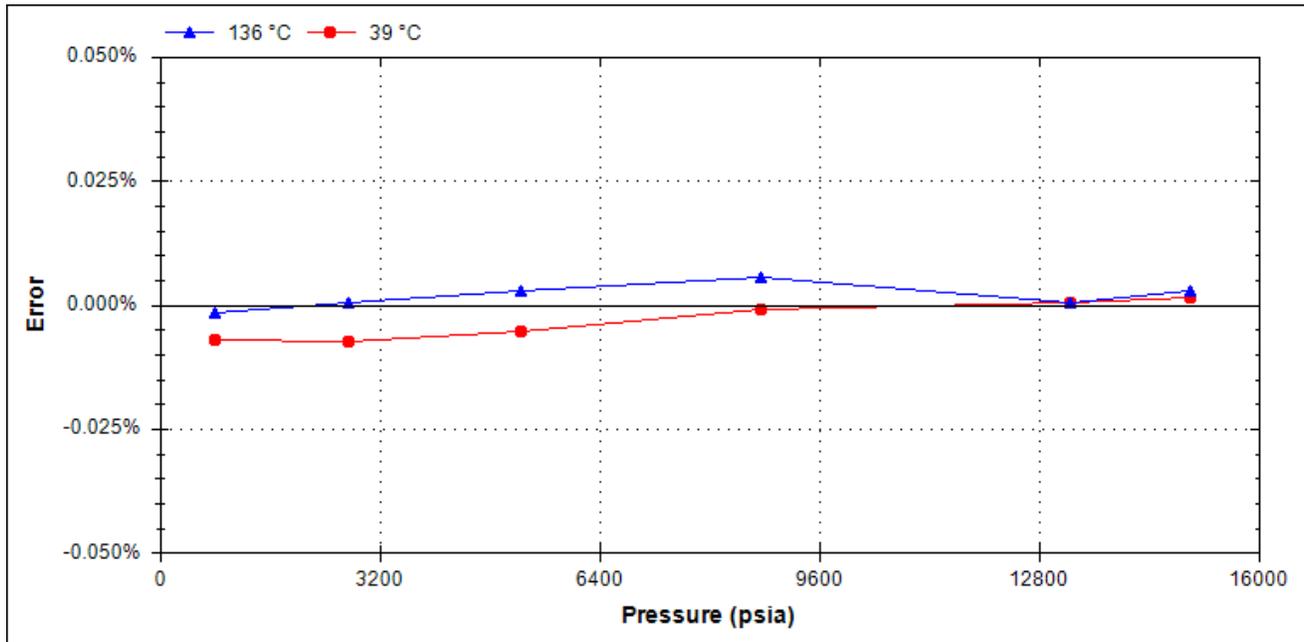


"The Next Generation of Down Hole Tools"

Calibration Date: 28-May-21 **Calibration System:** CALIBRATION03
Max Pressure Error: 0.010% F.S. **Batch Number:** 20210104.143132
Max Temperature Error: 0.110 °C
Part Number: 101696
Serial Number: 224831

| 1.25 OD Quartz DXB 2 Assembly | | | |
|-------------------------------|---------|-----------------|-----|
| Max Pressure | | Max Temperature | |
| psi | kPa | °F | °C |
| 16,000 | 110,316 | 351 | 177 |

Accuracy: As shown in the graph below, this DataCan Pressure gauge conforms to within +/- 0.030% F.S. of the pressure standard used in calibration, which is accurate to within +/- 0.01% of reading.



Working Standards

Sun Electronic Systems Environmental Chamber, Model: EC127, Serial: EC0020
 DHI Instruments Pressure Controller, Model: PPCH-200M (30,000psi Reference), Serial: 1529

Traceability Statement

All working standards are traceable to nationally or internationally recognized standards.

Approved By:
 DataCan Services Corp.

Calibrated By:
 Angelo Pulido

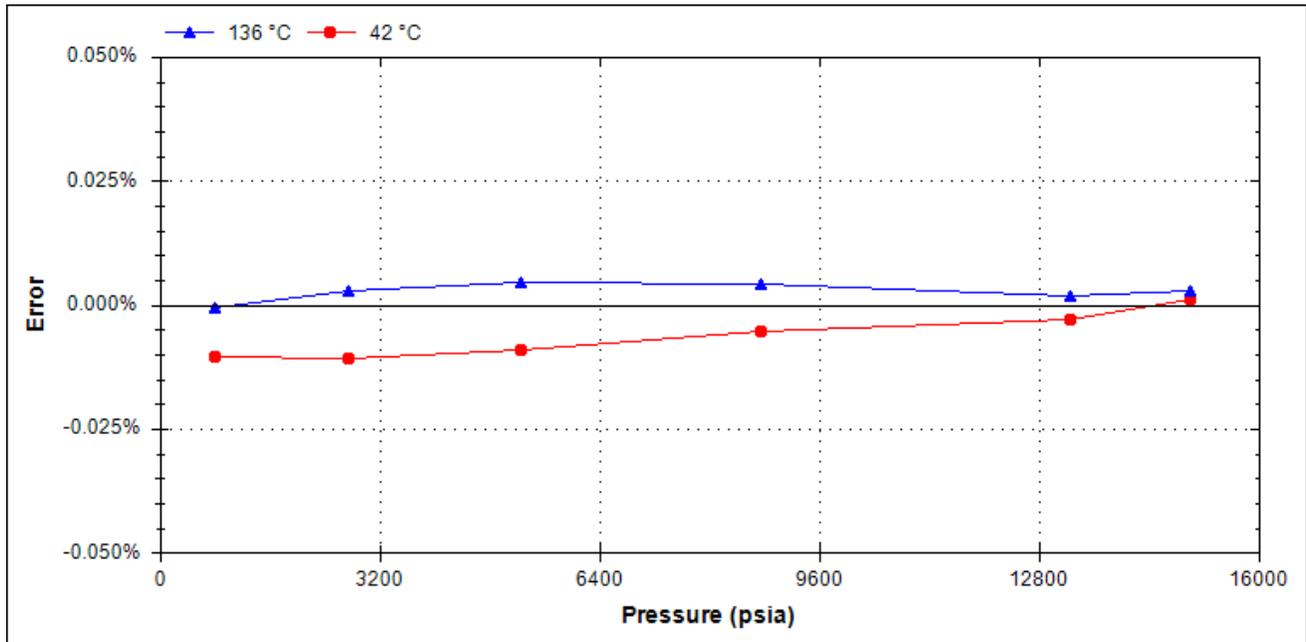


"The Next Generation of Down Hole Tools"

Calibration Date: 10-Mar-22
Max Pressure Error: 0.011% F.S.
Max Temperature Error: 0.210 °C
Part Number: 101696
Serial Number: 242665

| 1.25 OD Quartz DXB 2 Assembly | | | |
|-------------------------------|---------|-----------------|-----|
| Max Pressure | | Max Temperature | |
| psi | kPa | °F | °C |
| 16,000 | 110,316 | 351 | 177 |

Accuracy: As shown in the graph below, this DataCan Pressure gauge conforms to within +/- 0.030% F.S. of the pressure standard used in calibration, which is accurate to within +/- 0.01% of reading.



Working Standards

Sun Electronic Systems Environmental Chamber, Model: EC127
 DHI Instruments Pressure Controller, Model: PPCH-200M (30,000psi Reference)

Traceability Statement

All working standards are traceable to nationally or internationally recognized standards.

Approved By:
 DataCan Services Corp.

Calibrated By:
 Angelo Pulido

Attachment 4 FESCO Injection Falloff Test Report

Petrotek

| | | |
|---|--|---|
|  FESCO <small>PETROLEUM ENGINEERS</small> | FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332 |  FESCO <small>PETROLEUM ENGINEERS</small> |
| FLOWING GRADIENT SURVEY | | |

| | |
|--|---|
| Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Formation: Unavailable | Test Date: 08/30/2023 Location: Eddy County, NM Status: Flowing |
|--|---|

| | |
|---|---|
| Well Data: Wellhead Connection: 2.5" EUE Elevation: 15 ft above GL Tubing: 4.5" Set at 7568 ft (EOT) Casing: 7" Set at 9450 ft Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Datum: 8140 ft (MD) | Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500" |
|---|---|

| Depth | | | Pressure | | | | | Comments |
|-------|--------|----------------|----------|--------|---------------------|--------------------|----------------------------|------------------------|
| MD ft | TVD ft | Delta Depth ft | WHP psia | BHT °F | Gauge Pressure psia | Delta Pressure psi | Pressure Gradient psi / ft | |
| 0 | 0 | 0 | 1100 | 94.34 | 1099.20 | 0.00 | 0.0000 | |
| 1000 | 1000 | 1000 | | 107.68 | 1567.26 | 468.06 | 0.4681 | |
| 2000 | 2000 | 1000 | | 107.00 | 1977.87 | 410.61 | 0.4106 | |
| 3000 | 3000 | 1000 | | 106.44 | 2391.04 | 413.17 | 0.4132 | |
| 4000 | 4000 | 1000 | | 106.02 | 2806.98 | 415.94 | 0.4159 | |
| 5000 | 5000 | 1000 | | 105.84 | 3226.89 | 419.91 | 0.4199 | |
| 6000 | 6000 | 1000 | | 105.92 | 3646.88 | 419.99 | 0.4200 | |
| 7000 | 7000 | 1000 | | 106.25 | 4068.21 | 421.33 | 0.4213 | |
| 7572 | 7572 | 572 | 1100 | 106.50 | 4309.66 | 241.45 | 0.4221 | Set 44-hr Falloff Test |

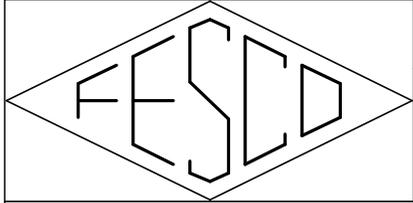
| | | |
|--|---|--------------------------------------|
| BHT at Test Depth: 106.50 °F Extrapolated BHP at Datum: 4549.41 psia BHP Gradient at Datum : 0.4221 psi/ft | Oil Level: Flowing Water Level: Flowing Csg Press: 640 psig | Previous BHP: U/A BHP Change: U/A |
|--|---|--------------------------------------|

Remarks: RIH with electronic gauges making injecting gradient stops to 7572 ft. Injected water into well for 1 hr. SI well for 44.3 hr BHP Falloff Test. POOH making static gradient stops. RDMO.

Certified: FESCO, Ltd. - Midland, TX

By: Michael Carnes
District Manager - (432) 332-3211

Job No.: J202309011401.001A Page 1

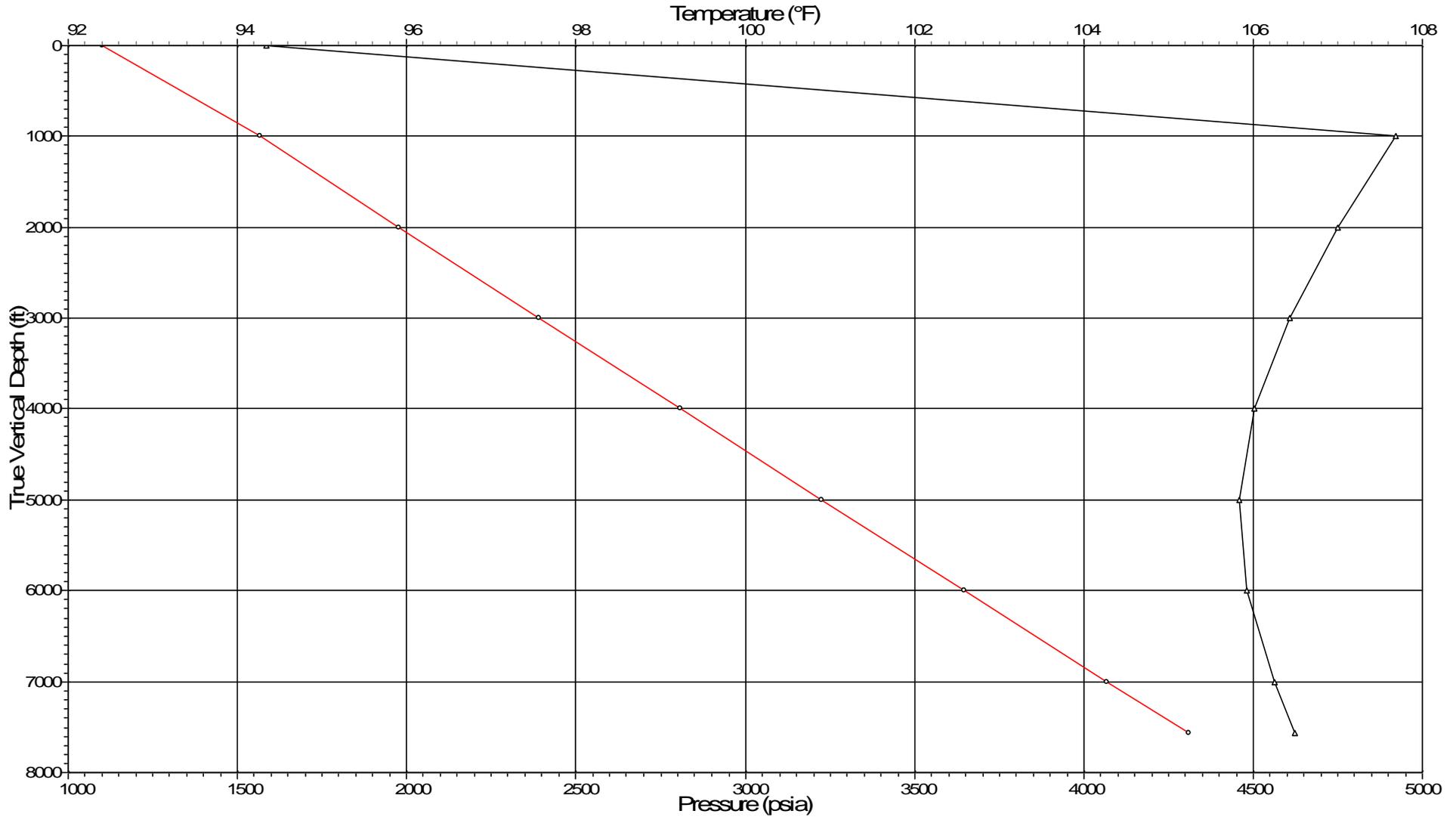


Petrotek Corporation

Well: Navajo Refining Waste Disposal Well No. 3
Field: Davonia
Test Date: 08/30/2023

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-22483

Flowing Gradient Plot



J202309011401.001A

Pressure -Δ- Temperature

| | | |
|---|--|---|
|  FESCO <small>PETROLEUM ENGINEERS</small> | FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332 |  FESCO <small>PETROLEUM ENGINEERS</small> |
| STATIC GRADIENT SURVEY | | |

| | |
|--|---|
| Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Formation: Unavailable | Test Date: 09/01/2023 Location: Eddy County, NM Status: SI for 44.3 hrs |
|--|---|

| | |
|---|---|
| Well Data: Wellhead Connection: 2.5" EUE Elevation: 15 ft above GL Tubing: 4.5" Set at 7568 ft (EOT) Casing: 7" Set at 9450 ft Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Datum: 8140 ft (MD) | Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500" |
|---|---|

| Depth | | | Pressure | | | | | Comments |
|-------|--------|----------------|----------|--------|---------------------|--------------------|----------------------------|------------------------|
| MD ft | TVD ft | Delta Depth ft | WHP psig | BHT °F | Gauge Pressure psig | Delta Pressure psi | Pressure Gradient psi / ft | |
| 0 | 0 | 0 | 920 | 75.85 | 917.48 | 0.00 | 0.0000 | Water level at surface |
| 1000 | 1000 | 1000 | | 86.50 | 1361.18 | 443.70 | 0.4437 | |
| 2000 | 2000 | 1000 | | 89.89 | 1794.31 | 433.13 | 0.4331 | |
| 3000 | 3000 | 1000 | | 93.85 | 2227.08 | 432.77 | 0.4328 | |
| 4000 | 4000 | 1000 | | 97.16 | 2661.12 | 434.04 | 0.4340 | |
| 5000 | 5000 | 1000 | | 101.58 | 3095.40 | 434.28 | 0.4343 | |
| 6000 | 6000 | 1000 | | 106.42 | 3529.41 | 434.01 | 0.4340 | |
| 7000 | 7000 | 1000 | | 111.23 | 3962.87 | 433.46 | 0.4335 | |
| 7572 | 7572 | 572 | 920 | 111.67 | 4211.69 | 248.82 | 0.4350 | |

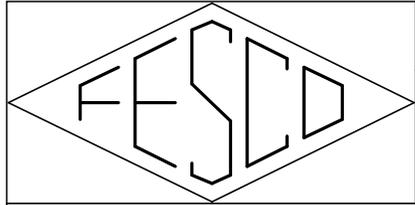
| | | |
|--|---|--------------------------------------|
| BHT at Test Depth: 111.67 °F Extrapolated BHP at Datum: 4458.77 psig BHP Gradient at Datum : 0.4350 psi/ft | Oil Level: None Water Level: Surface Csg Press: N/A | Previous BHP: U/A BHP Change: U/A |
|--|---|--------------------------------------|

Remarks: POOH after 44.3-hr BHP Falloff Test making static gradient stops to surface. RDMO.

Certified: FESCO, Ltd. - Midland, TX

By: Michael Carnes
 District Manager - (432) 332-3211

Job No.: J202309011401.001A Page 1

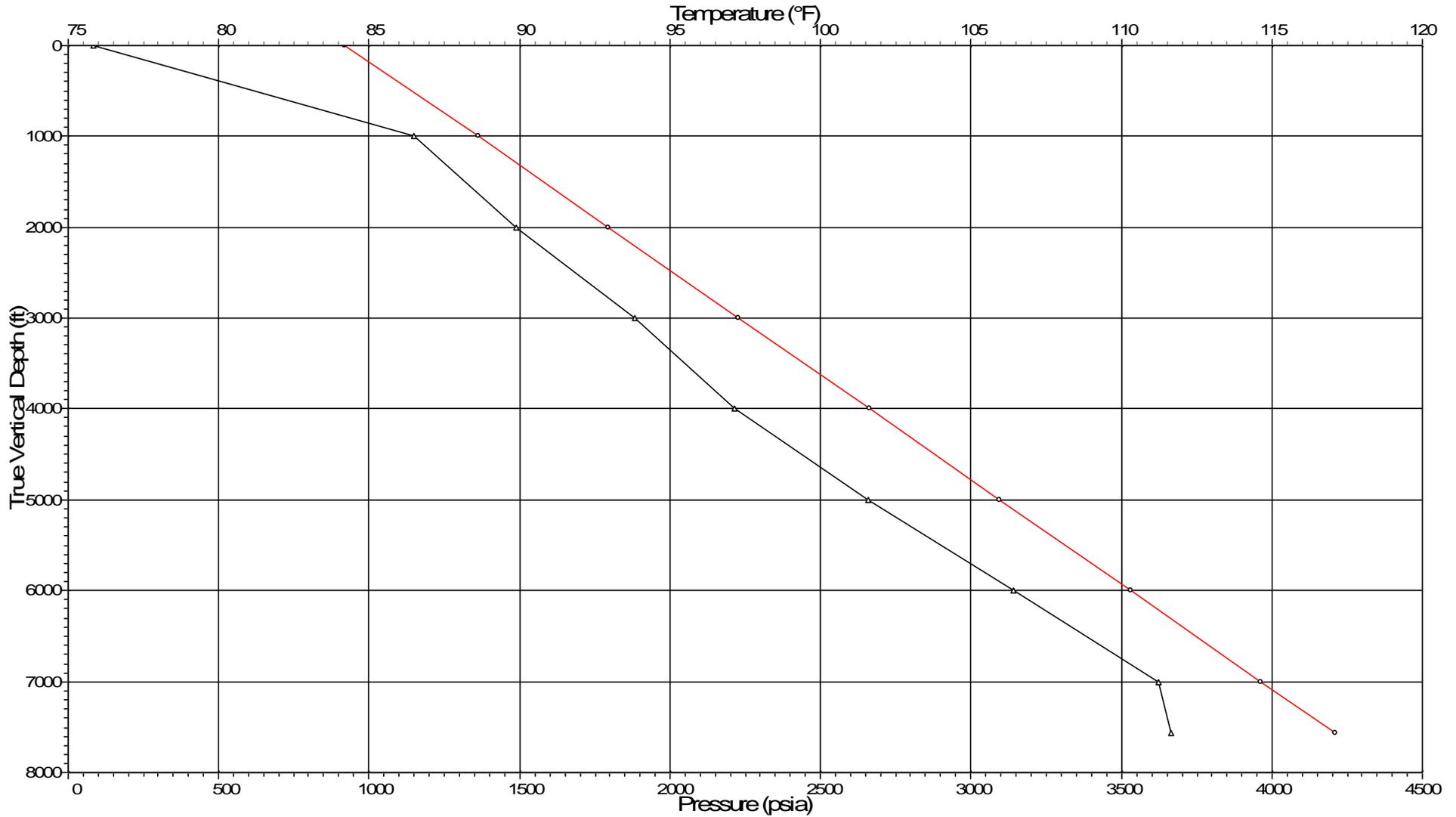


Petrotek Corporation

Well: Navajo Refining Waste Disposal Well No. 3
Field: Davonia
Test Date: 09/01/2023

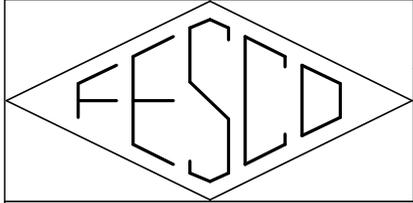
Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-22483

Static Gradient Plot



J202309011401.001A

Pressure -Δ- Temperature

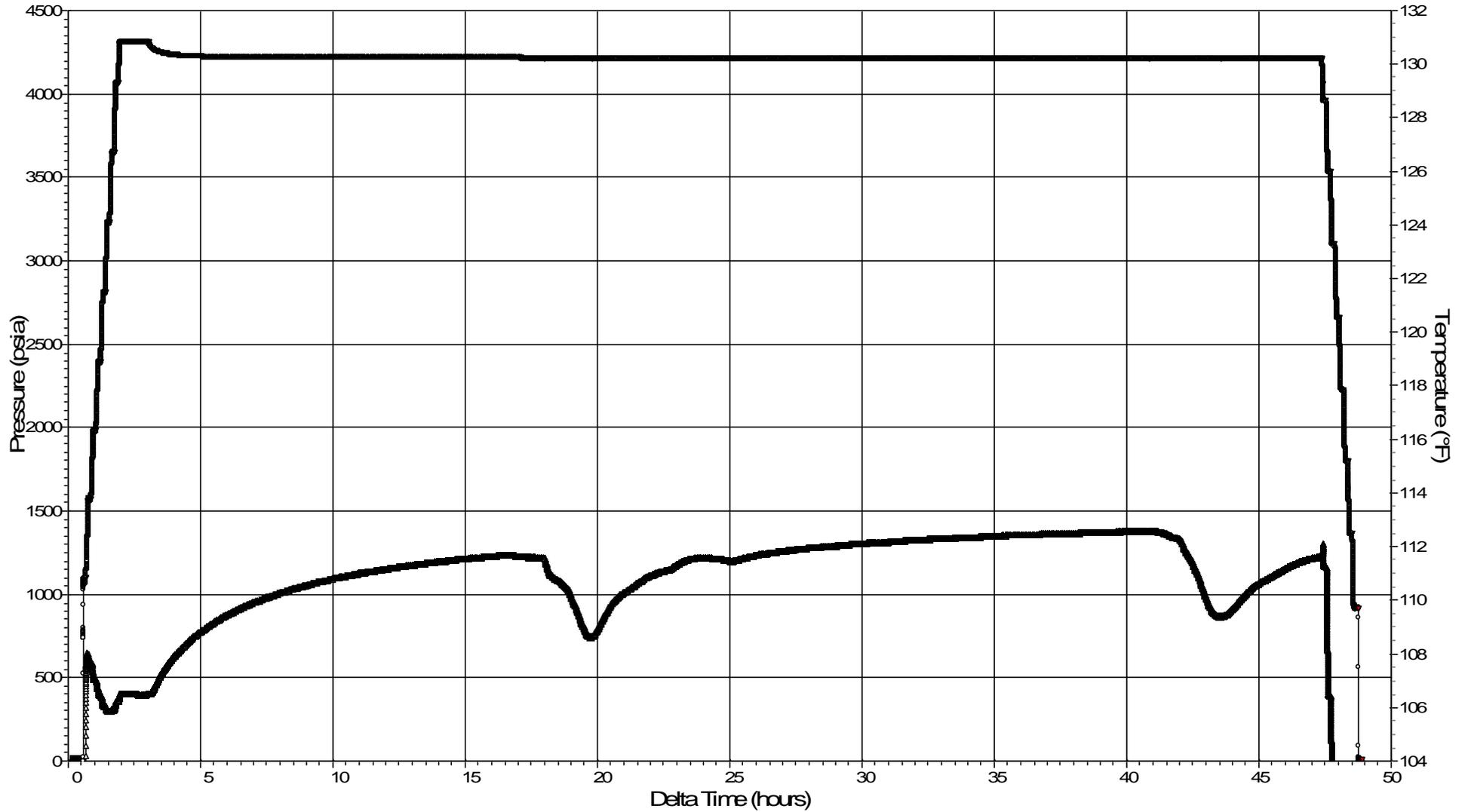


Petrotek Corporation

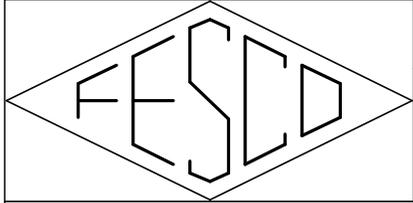
Well: Navajo Refining Waste Disposal Well No. 3
Field: Davonia
Test Date: 08/30 - 09/01/2023

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-22483

Cartesian Plot



J202309011401.001A

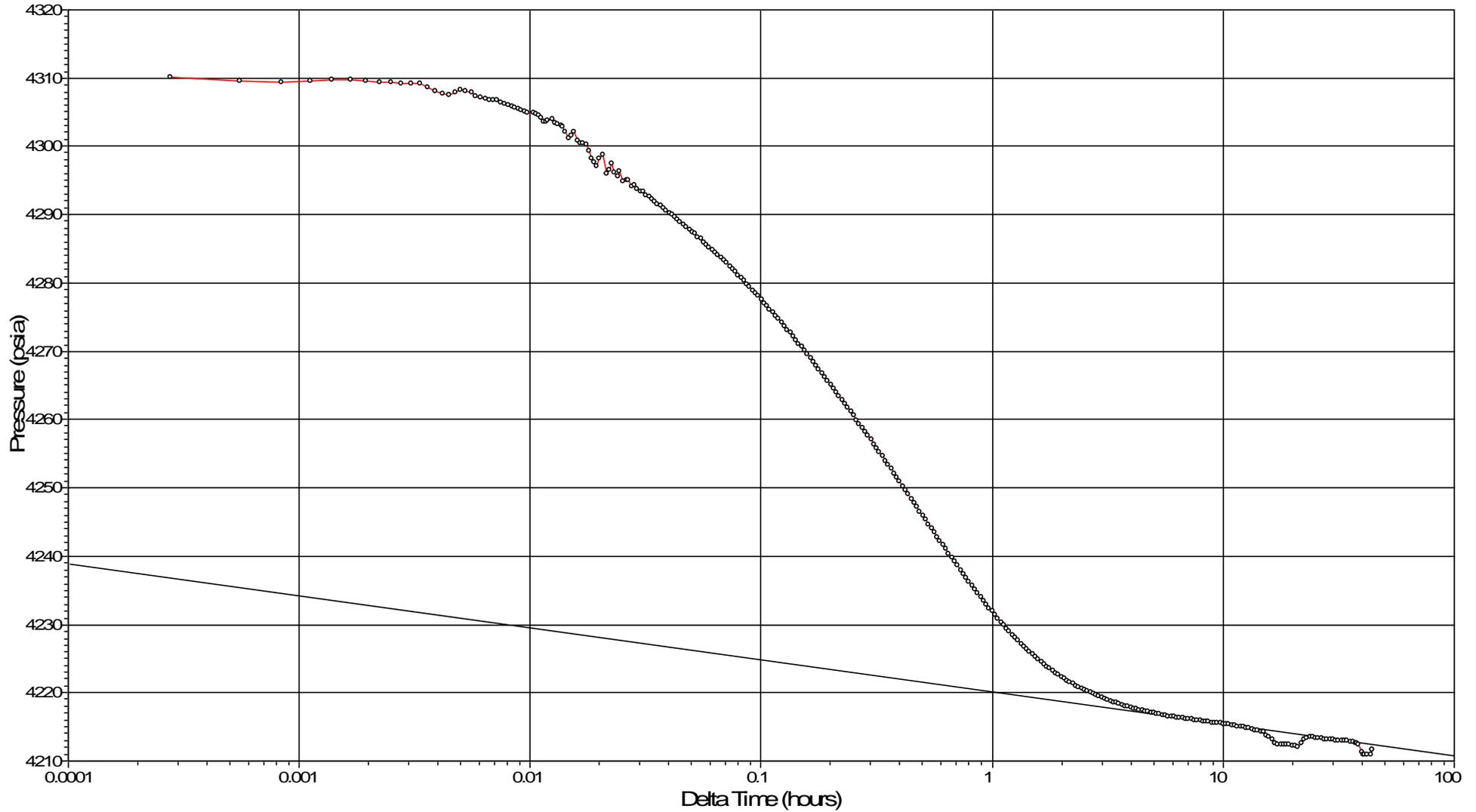


Petrotek Corporation

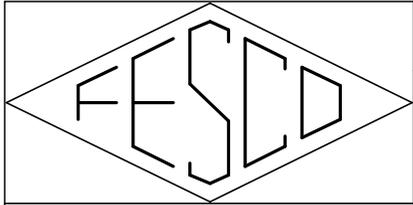
Well: Navajo Refining Waste Disposal Well No. 3
Field: Davonia
Test Date: 08/30 - 09/01/2023

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-22483

Semilog Plot (Falloff Test)



J202309011401.001A

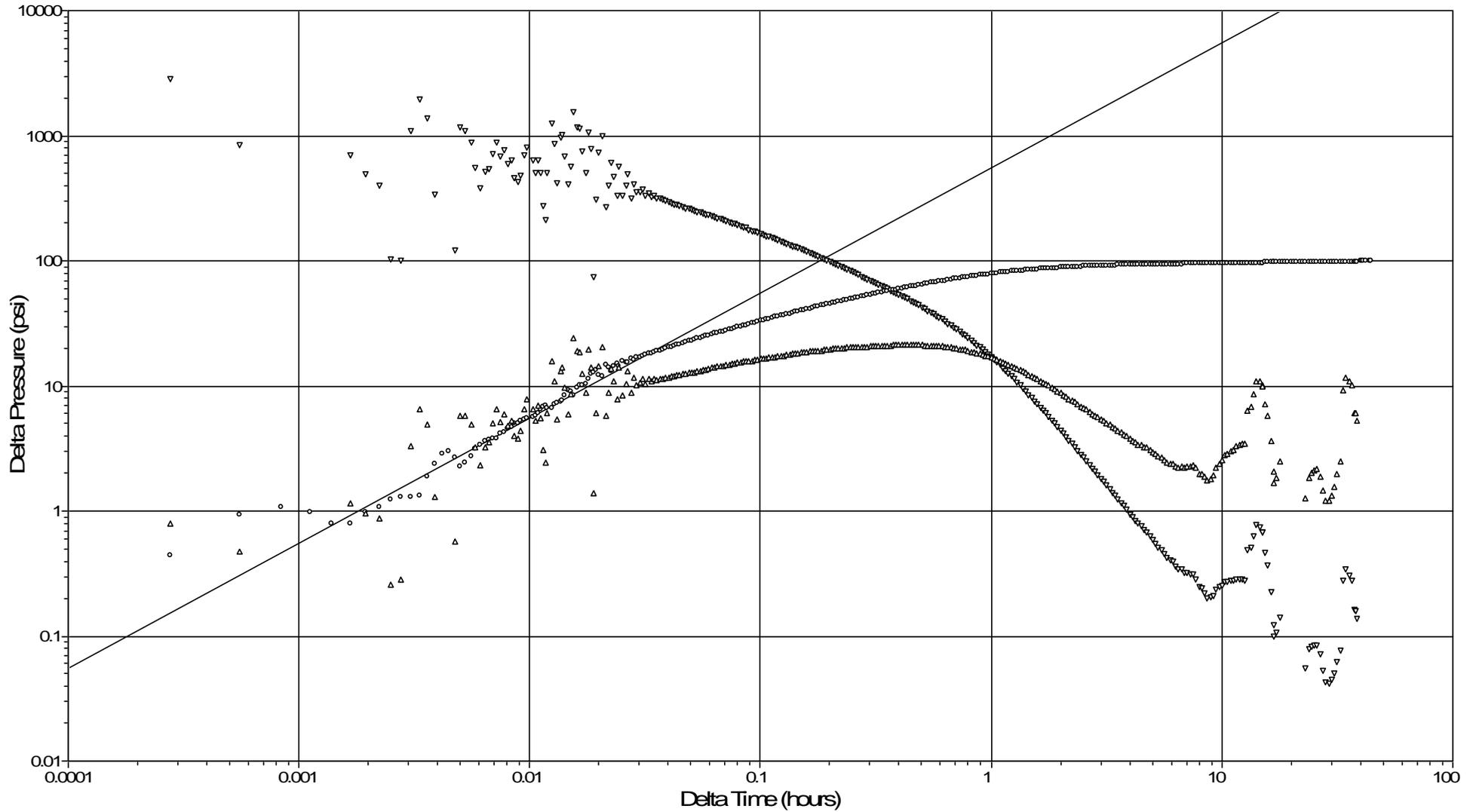


Petrotek Corporation

Well: Navajo Refining Waste Disposal Well No. 3
Field: Davonia
Test Date: 08/30 - 09/01/2023

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-22483

Log Plot (Falloff Test)



J202309011401.001A

— Unit Slope ▽ Primary Pressure Derivative ● Delta Pressure ▲ Radial Pressure Derivative

| | | |
|---|--|---|
|  | <p>FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332</p> |  |
| <p>RESERVOIR PRESSURE FALLOFF TEST</p> | | |

| | |
|---|---|
| <p>Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable</p> | <p>Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500"</p> |
|---|---|

| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|--------------------------------------|
| 08/30/23 | 08:55:40 | -3.05250 | | 17.14 | | 74.48 | Powered up gauge. |
| 08/30/23 | 09:00:00 | -2.98028 | | 16.45 | | 73.65 | |
| 08/30/23 | 09:10:00 | -2.81361 | | 16.30 | | 70.57 | |
| 08/30/23 | 09:20:00 | -2.64694 | | 16.31 | | 69.66 | |
| 08/30/23 | 09:28:00 | -2.51361 | | 16.87 | | 69.86 | |
| 08/30/23 | 09:29:54 | -2.48194 | | 1045.50 | | 99.08 | Pressured up lubricator. |
| 08/30/23 | 09:30:00 | -2.48028 | | 1054.19 | | 99.36 | |
| 08/30/23 | 09:31:00 | -2.46361 | | 1085.22 | | 97.37 | |
| 08/30/23 | 09:32:00 | -2.44694 | | 1093.24 | | 96.24 | |
| 08/30/23 | 09:33:00 | -2.43028 | | 1095.84 | | 95.50 | |
| 08/30/23 | 09:34:00 | -2.41361 | | 1092.26 | | 94.99 | |
| 08/30/23 | 09:35:00 | -2.39694 | | 1095.41 | | 94.66 | |
| 08/30/23 | 09:35:48 | -2.38361 | | 1098.09 | | 94.33 | Casing Pressure = 640 psig. |
| 08/30/23 | 09:35:49 | -2.38333 | 1100 | 1099.20 | | 94.34 | RIH making injecting gradient stops. |
| 08/30/23 | 09:36:00 | -2.38028 | | 1095.93 | | 95.48 | |
| 08/30/23 | 09:37:00 | -2.36361 | | 1138.56 | | 107.57 | |
| 08/30/23 | 09:38:00 | -2.34694 | | 1201.67 | | 108.00 | |
| 08/30/23 | 09:39:00 | -2.33028 | | 1264.93 | | 108.04 | |
| 08/30/23 | 09:40:00 | -2.31361 | | 1349.76 | | 108.00 | |
| 08/30/23 | 09:41:00 | -2.29694 | | 1433.95 | | 107.87 | |
| 08/30/23 | 09:42:00 | -2.28028 | | 1525.84 | | 107.69 | |
| 08/30/23 | 09:42:27 | -2.27278 | | 1572.72 | | 107.62 | Arrived at 1000 ft stop. |
| 08/30/23 | 09:43:00 | -2.26361 | | 1559.86 | | 107.61 | |
| 08/30/23 | 09:44:00 | -2.24694 | | 1574.99 | | 107.63 | |
| 08/30/23 | 09:45:00 | -2.23028 | | 1561.39 | | 107.64 | |
| 08/30/23 | 09:46:00 | -2.21361 | | 1564.28 | | 107.66 | |
| 08/30/23 | 09:47:00 | -2.19694 | | 1567.52 | | 107.68 | |
| 08/30/23 | 09:47:58 | -2.18083 | | 1567.26 | | 107.68 | Left 1000 ft stop. |
| 08/30/23 | 09:48:00 | -2.18028 | | 1571.07 | | 107.68 | |
| 08/30/23 | 09:49:00 | -2.16361 | | 1623.96 | | 107.60 | |
| 08/30/23 | 09:50:00 | -2.14694 | | 1708.00 | | 107.47 | |
| 08/30/23 | 09:51:00 | -2.13028 | | 1781.91 | | 107.34 | |
| 08/30/23 | 09:52:00 | -2.11361 | | 1859.51 | | 107.23 | |
| 08/30/23 | 09:53:00 | -2.09694 | | 1929.85 | | 107.12 | |
| 08/30/23 | 09:53:46 | -2.08417 | | 1979.24 | | 107.05 | Arrived at 2000 ft stop. |
| 08/30/23 | 09:54:00 | -2.08028 | | 1976.66 | | 107.03 | |
| 08/30/23 | 09:55:00 | -2.06361 | | 1977.58 | | 107.03 | |
| 08/30/23 | 09:56:00 | -2.04694 | | 1973.58 | | 107.02 | |

| | | |
|---|--|---|
|  FESCO <small>PETROLEUM ENGINEERS</small> | FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332 |  FESCO <small>PETROLEUM ENGINEERS</small> |
| RESERVOIR PRESSURE FALLOFF TEST | | |

| | |
|--|--|
| Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable | Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500" |
|--|--|

| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|--------------------------|
| 08/30/23 | 09:57:00 | -2.03028 | | 1977.10 | | 107.01 | |
| 08/30/23 | 09:58:00 | -2.01361 | | 1978.52 | | 107.01 | |
| 08/30/23 | 09:58:56 | -1.99806 | | 1977.87 | | 107.00 | Left 2000 ft stop. |
| 08/30/23 | 09:59:00 | -1.99694 | | 1978.66 | | 107.00 | |
| 08/30/23 | 10:00:00 | -1.98028 | | 2021.99 | | 106.95 | |
| 08/30/23 | 10:01:00 | -1.96361 | | 2092.54 | | 106.85 | |
| 08/30/23 | 10:02:00 | -1.94694 | | 2152.53 | | 106.76 | |
| 08/30/23 | 10:03:00 | -1.93028 | | 2236.48 | | 106.67 | |
| 08/30/23 | 10:04:00 | -1.91361 | | 2312.67 | | 106.56 | |
| 08/30/23 | 10:04:52 | -1.89917 | | 2392.38 | | 106.46 | Arrived at 3000 ft stop. |
| 08/30/23 | 10:05:00 | -1.89694 | | 2391.55 | | 106.45 | |
| 08/30/23 | 10:06:00 | -1.88028 | | 2391.34 | | 106.44 | |
| 08/30/23 | 10:07:00 | -1.86361 | | 2391.51 | | 106.44 | |
| 08/30/23 | 10:08:00 | -1.84694 | | 2392.60 | | 106.44 | |
| 08/30/23 | 10:09:00 | -1.83028 | | 2393.13 | | 106.44 | |
| 08/30/23 | 10:09:58 | -1.81417 | | 2391.04 | | 106.44 | Left 3000 ft stop. |
| 08/30/23 | 10:10:00 | -1.81361 | | 2387.62 | | 106.44 | |
| 08/30/23 | 10:11:00 | -1.79694 | | 2434.72 | | 106.40 | |
| 08/30/23 | 10:12:00 | -1.78028 | | 2526.12 | | 106.31 | |
| 08/30/23 | 10:13:00 | -1.76361 | | 2630.51 | | 106.19 | |
| 08/30/23 | 10:14:00 | -1.74694 | | 2727.40 | | 106.11 | |
| 08/30/23 | 10:14:59 | -1.73056 | | 2808.94 | | 106.04 | Arrived at 4000 ft stop. |
| 08/30/23 | 10:15:00 | -1.73028 | | 2808.63 | | 106.04 | |
| 08/30/23 | 10:16:00 | -1.71361 | | 2807.19 | | 106.02 | |
| 08/30/23 | 10:17:00 | -1.69694 | | 2809.64 | | 106.02 | |
| 08/30/23 | 10:18:00 | -1.68028 | | 2805.99 | | 106.02 | |
| 08/30/23 | 10:19:00 | -1.66361 | | 2806.49 | | 106.02 | |
| 08/30/23 | 10:20:00 | -1.64694 | | 2808.60 | | 106.02 | |
| 08/30/23 | 10:20:10 | -1.64417 | | 2806.98 | | 106.02 | Left 4000 ft stop. |
| 08/30/23 | 10:21:00 | -1.63028 | | 2851.69 | | 106.00 | |
| 08/30/23 | 10:22:00 | -1.61361 | | 2945.11 | | 105.95 | |
| 08/30/23 | 10:23:00 | -1.59694 | | 3026.25 | | 105.91 | |
| 08/30/23 | 10:24:00 | -1.58028 | | 3108.76 | | 105.87 | |
| 08/30/23 | 10:25:00 | -1.56361 | | 3197.43 | | 105.85 | |
| 08/30/23 | 10:25:22 | -1.55750 | | 3225.76 | | 105.84 | Arrived at 5000 ft stop. |
| 08/30/23 | 10:26:00 | -1.54694 | | 3228.14 | | 105.84 | |
| 08/30/23 | 10:27:00 | -1.53028 | | 3228.04 | | 105.84 | |
| 08/30/23 | 10:28:00 | -1.51361 | | 3227.35 | | 105.84 | |

| | | |
|---|--|---|
|  FESCO PETROLEUM ENGINEERS | FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332 |  FESCO PETROLEUM ENGINEERS |
| RESERVOIR PRESSURE FALLOFF TEST | | |

| | |
|--|--|
| Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable | Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500" |
|--|--|

| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|---------------------------|
| 08/30/23 | 10:29:00 | -1.49694 | | 3225.61 | | 105.84 | |
| 08/30/23 | 10:30:00 | -1.48028 | | 3228.00 | | 105.84 | |
| 08/30/23 | 10:30:39 | -1.46944 | | 3226.89 | | 105.84 | Left 5000 ft stop. |
| 08/30/23 | 10:31:00 | -1.46361 | | 3251.28 | | 105.84 | |
| 08/30/23 | 10:32:00 | -1.44694 | | 3336.55 | | 105.83 | |
| 08/30/23 | 10:33:00 | -1.43028 | | 3433.84 | | 105.84 | |
| 08/30/23 | 10:34:00 | -1.41361 | | 3550.34 | | 105.87 | |
| 08/30/23 | 10:34:58 | -1.39750 | | 3648.09 | | 105.91 | Arrived at 6000 ft stop. |
| 08/30/23 | 10:35:00 | -1.39694 | | 3645.34 | | 105.91 | |
| 08/30/23 | 10:36:00 | -1.38028 | | 3646.44 | | 105.92 | |
| 08/30/23 | 10:37:00 | -1.36361 | | 3646.74 | | 105.92 | |
| 08/30/23 | 10:38:00 | -1.34694 | | 3645.39 | | 105.92 | |
| 08/30/23 | 10:39:00 | -1.33028 | | 3646.24 | | 105.91 | |
| 08/30/23 | 10:40:00 | -1.31361 | | 3645.31 | | 105.92 | |
| 08/30/23 | 10:40:05 | -1.31222 | | 3646.88 | | 105.92 | Left 6000 ft stop. |
| 08/30/23 | 10:41:00 | -1.29694 | | 3705.05 | | 105.94 | |
| 08/30/23 | 10:42:00 | -1.28028 | | 3829.03 | | 106.01 | |
| 08/30/23 | 10:43:00 | -1.26361 | | 3921.12 | | 106.09 | |
| 08/30/23 | 10:44:00 | -1.24694 | | 4022.65 | | 106.18 | |
| 08/30/23 | 10:44:38 | -1.23639 | | 4068.16 | | 106.23 | Arrived at 7000 ft stop. |
| 08/30/23 | 10:45:00 | -1.23028 | | 4068.19 | | 106.24 | |
| 08/30/23 | 10:46:00 | -1.21361 | | 4068.36 | | 106.24 | |
| 08/30/23 | 10:47:00 | -1.19694 | | 4068.10 | | 106.25 | |
| 08/30/23 | 10:48:00 | -1.18028 | | 4068.47 | | 106.25 | |
| 08/30/23 | 10:49:00 | -1.16361 | | 4067.91 | | 106.25 | |
| 08/30/23 | 10:49:45 | -1.15111 | | 4068.21 | | 106.25 | Left 7000 ft stop. |
| 08/30/23 | 10:50:00 | -1.14694 | | 4074.58 | | 106.25 | |
| 08/30/23 | 10:51:00 | -1.13028 | | 4143.19 | | 106.30 | |
| 08/30/23 | 10:52:00 | -1.11361 | | 4232.65 | | 106.39 | |
| 08/30/23 | 10:52:47 | -1.10056 | 1100 | 4309.85 | | 106.48 | Softset gauge at 7572 ft. |
| 08/30/23 | 10:53:00 | -1.09694 | | 4309.60 | | 106.50 | |
| 08/30/23 | 10:54:00 | -1.08028 | | 4309.57 | | 106.50 | |
| 08/30/23 | 10:55:00 | -1.06361 | | 4309.80 | | 106.50 | |
| 08/30/23 | 11:00:00 | -0.98028 | 1100 | 4309.66 | | 106.50 | 7572 ft stop. |
| 08/30/23 | 11:10:00 | -0.81361 | | 4309.81 | | 106.50 | |
| 08/30/23 | 11:20:00 | -0.64694 | | 4309.63 | | 106.49 | |
| 08/30/23 | 11:30:00 | -0.48028 | | 4310.17 | | 106.49 | |
| 08/30/23 | 11:40:00 | -0.31361 | | 4310.07 | | 106.48 | |

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|  | <p>FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332</p> |  |
| RESERVOIR PRESSURE FALLOFF TEST | | |

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|---|---|
| <p>Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable</p> | <p>Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500"</p> |
|---|---|

| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|--|
| 08/30/23 | 11:50:00 | -0.14694 | | 4310.19 | | 106.48 | |
| 08/30/23 | 11:55:00 | -0.06361 | | 4310.20 | | 106.49 | |
| 08/30/23 | 11:58:47 | -0.00056 | | 4310.25 | | 106.49 | Injection Rate = Unavailable. |
| 08/30/23 | 11:58:48 | -0.00028 | | 4310.41 | | 106.49 | Casing Pressure = 640 psig. |
| 08/30/23 | 11:58:49 | 0.00000 | 1100 | 4310.54 | 0.00 | 106.49 | Shut in well for 44.3-hr falloff test. |
| 08/30/23 | 11:58:50 | 0.00028 | | 4310.10 | -0.44 | 106.49 | |
| 08/30/23 | 11:58:51 | 0.00056 | | 4309.60 | -0.94 | 106.49 | |
| 08/30/23 | 11:58:52 | 0.00083 | | 4309.47 | -1.07 | 106.49 | |
| 08/30/23 | 11:58:53 | 0.00111 | | 4309.57 | -0.97 | 106.49 | |
| 08/30/23 | 11:58:54 | 0.00139 | | 4309.74 | -0.80 | 106.49 | |
| 08/30/23 | 11:58:55 | 0.00167 | | 4309.75 | -0.79 | 106.49 | |
| 08/30/23 | 11:58:56 | 0.00194 | | 4309.56 | -0.98 | 106.49 | |
| 08/30/23 | 11:58:57 | 0.00222 | | 4309.47 | -1.07 | 106.49 | |
| 08/30/23 | 11:58:58 | 0.00250 | | 4309.30 | -1.24 | 106.49 | |
| 08/30/23 | 11:58:59 | 0.00278 | | 4309.26 | -1.28 | 106.49 | |
| 08/30/23 | 11:59:00 | 0.00306 | | 4309.25 | -1.29 | 106.49 | |
| 08/30/23 | 11:59:01 | 0.00333 | | 4309.21 | -1.33 | 106.49 | |
| 08/30/23 | 11:59:02 | 0.00361 | | 4308.66 | -1.88 | 106.49 | |
| 08/30/23 | 11:59:03 | 0.00389 | | 4308.16 | -2.38 | 106.49 | |
| 08/30/23 | 11:59:04 | 0.00417 | | 4307.65 | -2.89 | 106.49 | |
| 08/30/23 | 11:59:05 | 0.00444 | | 4307.57 | -2.97 | 106.49 | |
| 08/30/23 | 11:59:06 | 0.00472 | | 4307.90 | -2.64 | 106.49 | |
| 08/30/23 | 11:59:07 | 0.00500 | | 4308.29 | -2.25 | 106.49 | |
| 08/30/23 | 11:59:08 | 0.00528 | | 4308.11 | -2.43 | 106.49 | |
| 08/30/23 | 11:59:09 | 0.00556 | | 4307.81 | -2.73 | 106.49 | |
| 08/30/23 | 11:59:10 | 0.00583 | | 4307.36 | -3.18 | 106.49 | |
| 08/30/23 | 11:59:11 | 0.00611 | | 4307.16 | -3.38 | 106.49 | |
| 08/30/23 | 11:59:12 | 0.00639 | | 4306.95 | -3.59 | 106.49 | |
| 08/30/23 | 11:59:13 | 0.00667 | | 4306.87 | -3.67 | 106.49 | |
| 08/30/23 | 11:59:14 | 0.00694 | | 4306.77 | -3.77 | 106.49 | |
| 08/30/23 | 11:59:15 | 0.00722 | | 4306.76 | -3.78 | 106.49 | |
| 08/30/23 | 11:59:16 | 0.00750 | | 4306.41 | -4.13 | 106.49 | |
| 08/30/23 | 11:59:17 | 0.00778 | | 4306.30 | -4.24 | 106.50 | |
| 08/30/23 | 11:59:18 | 0.00806 | | 4305.99 | -4.55 | 106.50 | |
| 08/30/23 | 11:59:19 | 0.00833 | | 4305.82 | -4.72 | 106.50 | |
| 08/30/23 | 11:59:20 | 0.00861 | | 4305.58 | -4.96 | 106.50 | |
| 08/30/23 | 11:59:21 | 0.00889 | | 4305.50 | -5.04 | 106.50 | |
| 08/30/23 | 11:59:22 | 0.00917 | | 4305.28 | -5.26 | 106.50 | |

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|  | <p>FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332</p> |  |
| <p>RESERVOIR PRESSURE FALLOFF TEST</p> | | |

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|---|---|
| <p>Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable</p> | <p>Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500"</p> |
|---|---|

| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|----------|
| 08/30/23 | 11:59:23 | 0.00944 | | 4305.20 | -5.34 | 106.50 | |
| 08/30/23 | 11:59:24 | 0.00972 | | 4304.98 | -5.56 | 106.50 | |
| 08/30/23 | 11:59:26 | 0.01028 | | 4304.86 | -5.68 | 106.50 | |
| 08/30/23 | 11:59:27 | 0.01056 | | 4304.83 | -5.71 | 106.50 | |
| 08/30/23 | 11:59:28 | 0.01083 | | 4304.53 | -6.01 | 106.50 | |
| 08/30/23 | 11:59:29 | 0.01111 | | 4304.10 | -6.44 | 106.50 | |
| 08/30/23 | 11:59:30 | 0.01139 | | 4303.71 | -6.83 | 106.50 | |
| 08/30/23 | 11:59:31 | 0.01167 | | 4303.53 | -7.01 | 106.50 | |
| 08/30/23 | 11:59:32 | 0.01194 | | 4303.85 | -6.69 | 106.50 | |
| 08/30/23 | 11:59:34 | 0.01250 | | 4303.91 | -6.63 | 106.50 | |
| 08/30/23 | 11:59:35 | 0.01278 | | 4303.35 | -7.19 | 106.50 | |
| 08/30/23 | 11:59:36 | 0.01306 | | 4303.18 | -7.36 | 106.50 | |
| 08/30/23 | 11:59:38 | 0.01361 | | 4303.15 | -7.39 | 106.50 | |
| 08/30/23 | 11:59:39 | 0.01389 | | 4302.91 | -7.63 | 106.50 | |
| 08/30/23 | 11:59:40 | 0.01417 | | 4302.21 | -8.33 | 106.50 | |
| 08/30/23 | 11:59:42 | 0.01472 | | 4301.25 | -9.29 | 106.50 | |
| 08/30/23 | 11:59:43 | 0.01500 | | 4301.54 | -9.00 | 106.50 | |
| 08/30/23 | 11:59:45 | 0.01556 | | 4302.21 | -8.33 | 106.50 | |
| 08/30/23 | 11:59:47 | 0.01611 | | 4300.84 | -9.70 | 106.50 | |
| 08/30/23 | 11:59:48 | 0.01639 | | 4300.49 | -10.05 | 106.50 | |
| 08/30/23 | 11:59:50 | 0.01694 | | 4300.41 | -10.13 | 106.50 | |
| 08/30/23 | 11:59:52 | 0.01750 | | 4300.19 | -10.35 | 106.50 | |
| 08/30/23 | 11:59:54 | 0.01806 | | 4299.28 | -11.26 | 106.50 | |
| 08/30/23 | 11:59:55 | 0.01833 | | 4298.15 | -12.39 | 106.50 | |
| 08/30/23 | 11:59:57 | 0.01889 | | 4297.73 | -12.81 | 106.50 | |
| 08/30/23 | 11:59:59 | 0.01944 | | 4297.17 | -13.37 | 106.50 | |
| 08/30/23 | 12:00:01 | 0.02000 | | 4298.25 | -12.29 | 106.50 | |
| 08/30/23 | 12:00:03 | 0.02056 | | 4298.73 | -11.81 | 106.50 | |
| 08/30/23 | 12:00:06 | 0.02139 | | 4295.90 | -14.64 | 106.51 | |
| 08/30/23 | 12:00:08 | 0.02194 | | 4296.64 | -13.90 | 106.51 | |
| 08/30/23 | 12:00:10 | 0.02250 | | 4297.50 | -13.04 | 106.51 | |
| 08/30/23 | 12:00:12 | 0.02306 | | 4296.13 | -14.41 | 106.51 | |
| 08/30/23 | 12:00:15 | 0.02389 | | 4295.60 | -14.94 | 106.51 | |
| 08/30/23 | 12:00:17 | 0.02444 | | 4296.28 | -14.26 | 106.51 | |
| 08/30/23 | 12:00:20 | 0.02528 | | 4294.92 | -15.62 | 106.51 | |
| 08/30/23 | 12:00:23 | 0.02611 | | 4295.07 | -15.47 | 106.51 | |
| 08/30/23 | 12:00:25 | 0.02667 | | 4295.10 | -15.44 | 106.51 | |
| 08/30/23 | 12:00:28 | 0.02750 | | 4294.17 | -16.37 | 106.51 | |

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|  | <p>FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332</p> |  |
| <p>RESERVOIR PRESSURE FALLOFF TEST</p> | | |

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|---|---|
| <p>Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable</p> | <p>Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500"</p> |
|---|---|

| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|----------|
| 08/30/23 | 12:00:31 | 0.02833 | | 4294.24 | -16.30 | 106.51 | |
| 08/30/23 | 12:00:34 | 0.02917 | | 4293.75 | -16.79 | 106.51 | |
| 08/30/23 | 12:00:37 | 0.03000 | | 4293.45 | -17.09 | 106.51 | |
| 08/30/23 | 12:00:40 | 0.03083 | | 4293.31 | -17.23 | 106.51 | |
| 08/30/23 | 12:00:43 | 0.03167 | | 4292.80 | -17.74 | 106.51 | |
| 08/30/23 | 12:00:47 | 0.03278 | | 4292.60 | -17.94 | 106.51 | |
| 08/30/23 | 12:00:50 | 0.03361 | | 4292.20 | -18.34 | 106.51 | |
| 08/30/23 | 12:00:54 | 0.03472 | | 4291.93 | -18.61 | 106.51 | |
| 08/30/23 | 12:00:57 | 0.03556 | | 4291.59 | -18.95 | 106.51 | |
| 08/30/23 | 12:01:01 | 0.03667 | | 4291.30 | -19.24 | 106.51 | |
| 08/30/23 | 12:01:05 | 0.03778 | | 4290.93 | -19.61 | 106.51 | |
| 08/30/23 | 12:01:09 | 0.03889 | | 4290.60 | -19.94 | 106.51 | |
| 08/30/23 | 12:01:13 | 0.04000 | | 4290.27 | -20.27 | 106.51 | |
| 08/30/23 | 12:01:17 | 0.04111 | | 4289.96 | -20.58 | 106.52 | |
| 08/30/23 | 12:01:21 | 0.04222 | | 4289.64 | -20.90 | 106.52 | |
| 08/30/23 | 12:01:26 | 0.04361 | | 4289.26 | -21.28 | 106.52 | |
| 08/30/23 | 12:01:30 | 0.04472 | | 4288.95 | -21.59 | 106.52 | |
| 08/30/23 | 12:01:35 | 0.04611 | | 4288.58 | -21.96 | 106.52 | |
| 08/30/23 | 12:01:40 | 0.04750 | | 4288.22 | -22.32 | 106.52 | |
| 08/30/23 | 12:01:45 | 0.04889 | | 4287.86 | -22.68 | 106.52 | |
| 08/30/23 | 12:01:50 | 0.05028 | | 4287.51 | -23.03 | 106.52 | |
| 08/30/23 | 12:01:55 | 0.05167 | | 4287.16 | -23.38 | 106.52 | |
| 08/30/23 | 12:02:01 | 0.05333 | | 4286.76 | -23.78 | 106.52 | |
| 08/30/23 | 12:02:06 | 0.05472 | | 4286.42 | -24.12 | 106.52 | |
| 08/30/23 | 12:02:12 | 0.05639 | | 4286.03 | -24.51 | 106.52 | |
| 08/30/23 | 12:02:18 | 0.05806 | | 4285.64 | -24.90 | 106.52 | |
| 08/30/23 | 12:02:24 | 0.05972 | | 4285.26 | -25.28 | 106.52 | |
| 08/30/23 | 12:02:30 | 0.06139 | | 4284.89 | -25.65 | 106.52 | |
| 08/30/23 | 12:02:37 | 0.06333 | | 4284.46 | -26.08 | 106.52 | |
| 08/30/23 | 12:02:43 | 0.06500 | | 4284.10 | -26.44 | 106.53 | |
| 08/30/23 | 12:02:50 | 0.06694 | | 4283.69 | -26.85 | 106.53 | |
| 08/30/23 | 12:02:57 | 0.06889 | | 4283.28 | -27.26 | 106.53 | |
| 08/30/23 | 12:03:04 | 0.07083 | | 4282.87 | -27.67 | 106.53 | |
| 08/30/23 | 12:03:12 | 0.07306 | | 4282.42 | -28.12 | 106.53 | |
| 08/30/23 | 12:03:19 | 0.07500 | | 4282.04 | -28.50 | 106.53 | |
| 08/30/23 | 12:03:27 | 0.07722 | | 4281.60 | -28.94 | 106.53 | |
| 08/30/23 | 12:03:35 | 0.07944 | | 4281.18 | -29.36 | 106.54 | |
| 08/30/23 | 12:03:44 | 0.08194 | | 4280.71 | -29.83 | 106.54 | |

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|  | <p>FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332</p> |  |
| <p>RESERVOIR PRESSURE FALLOFF TEST</p> | | |

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|---|---|
| <p>Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable</p> | <p>Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500"</p> |
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| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|----------|
| 08/30/23 | 12:03:52 | 0.08417 | | 4280.31 | -30.23 | 106.54 | |
| 08/30/23 | 12:04:01 | 0.08667 | | 4279.86 | -30.68 | 106.54 | |
| 08/30/23 | 12:04:10 | 0.08917 | | 4279.41 | -31.13 | 106.55 | |
| 08/30/23 | 12:04:20 | 0.09194 | | 4278.92 | -31.62 | 106.55 | |
| 08/30/23 | 12:04:29 | 0.09444 | | 4278.49 | -32.05 | 106.56 | |
| 08/30/23 | 12:04:39 | 0.09722 | | 4278.03 | -32.51 | 106.56 | |
| 08/30/23 | 12:04:50 | 0.10028 | | 4277.52 | -33.02 | 106.56 | |
| 08/30/23 | 12:05:00 | 0.10306 | | 4277.08 | -33.46 | 106.57 | |
| 08/30/23 | 12:05:11 | 0.10611 | | 4276.61 | -33.93 | 106.57 | |
| 08/30/23 | 12:05:22 | 0.10917 | | 4276.14 | -34.40 | 106.58 | |
| 08/30/23 | 12:05:33 | 0.11222 | | 4275.67 | -34.87 | 106.58 | |
| 08/30/23 | 12:05:45 | 0.11556 | | 4275.17 | -35.37 | 106.59 | |
| 08/30/23 | 12:05:57 | 0.11889 | | 4274.68 | -35.86 | 106.59 | |
| 08/30/23 | 12:06:10 | 0.12250 | | 4274.17 | -36.37 | 106.60 | |
| 08/30/23 | 12:06:23 | 0.12611 | | 4273.67 | -36.87 | 106.60 | |
| 08/30/23 | 12:06:36 | 0.12972 | | 4273.18 | -37.36 | 106.61 | |
| 08/30/23 | 12:06:50 | 0.13361 | | 4272.66 | -37.88 | 106.61 | |
| 08/30/23 | 12:07:04 | 0.13750 | | 4272.15 | -38.39 | 106.62 | |
| 08/30/23 | 12:07:18 | 0.14139 | | 4271.65 | -38.89 | 106.62 | |
| 08/30/23 | 12:07:33 | 0.14556 | | 4271.12 | -39.42 | 106.63 | |
| 08/30/23 | 12:07:48 | 0.14972 | | 4270.61 | -39.93 | 106.64 | |
| 08/30/23 | 12:08:04 | 0.15417 | | 4270.07 | -40.47 | 106.64 | |
| 08/30/23 | 12:08:20 | 0.15861 | | 4269.54 | -41.00 | 106.65 | |
| 08/30/23 | 12:08:37 | 0.16333 | | 4269.00 | -41.54 | 106.66 | |
| 08/30/23 | 12:08:54 | 0.16806 | | 4268.46 | -42.08 | 106.66 | |
| 08/30/23 | 12:09:12 | 0.17306 | | 4267.91 | -42.63 | 106.67 | |
| 08/30/23 | 12:09:30 | 0.17806 | | 4267.36 | -43.18 | 106.68 | |
| 08/30/23 | 12:09:48 | 0.18306 | | 4266.82 | -43.72 | 106.69 | |
| 08/30/23 | 12:10:08 | 0.18861 | | 4266.24 | -44.30 | 106.70 | |
| 08/30/23 | 12:10:27 | 0.19389 | | 4265.71 | -44.83 | 106.71 | |
| 08/30/23 | 12:10:48 | 0.19972 | | 4265.14 | -45.40 | 106.72 | |
| 08/30/23 | 12:11:09 | 0.20556 | | 4264.58 | -45.96 | 106.74 | |
| 08/30/23 | 12:11:30 | 0.21139 | | 4264.02 | -46.52 | 106.75 | |
| 08/30/23 | 12:11:53 | 0.21778 | | 4263.43 | -47.11 | 106.76 | |
| 08/30/23 | 12:12:15 | 0.22389 | | 4262.87 | -47.67 | 106.78 | |
| 08/30/23 | 12:12:39 | 0.23056 | | 4262.29 | -48.25 | 106.79 | |
| 08/30/23 | 12:13:03 | 0.23722 | | 4261.72 | -48.82 | 106.80 | |
| 08/30/23 | 12:13:28 | 0.24417 | | 4261.12 | -49.42 | 106.81 | |

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|  FESCO PETROLEUM ENGINEERS | FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332 |  FESCO PETROLEUM ENGINEERS |
| RESERVOIR PRESSURE FALLOFF TEST | | |

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|--|--|
| Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable | Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500" |
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| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|----------|
| 08/30/23 | 12:13:54 | 0.25139 | | 4260.54 | -50.00 | 106.82 | |
| 08/30/23 | 12:14:20 | 0.25861 | | 4259.94 | -50.60 | 106.84 | |
| 08/30/23 | 12:14:47 | 0.26611 | | 4259.37 | -51.17 | 106.86 | |
| 08/30/23 | 12:15:15 | 0.27389 | | 4258.76 | -51.78 | 106.89 | |
| 08/30/23 | 12:15:44 | 0.28194 | | 4258.17 | -52.37 | 106.91 | |
| 08/30/23 | 12:16:14 | 0.29028 | | 4257.57 | -52.97 | 106.92 | |
| 08/30/23 | 12:16:44 | 0.29861 | | 4257.00 | -53.54 | 106.94 | |
| 08/30/23 | 12:17:16 | 0.30750 | | 4256.38 | -54.16 | 106.96 | |
| 08/30/23 | 12:17:48 | 0.31639 | | 4255.78 | -54.76 | 106.98 | |
| 08/30/23 | 12:18:21 | 0.32556 | | 4255.20 | -55.34 | 107.00 | |
| 08/30/23 | 12:18:55 | 0.33500 | | 4254.59 | -55.95 | 107.02 | |
| 08/30/23 | 12:19:31 | 0.34500 | | 4253.99 | -56.55 | 107.04 | |
| 08/30/23 | 12:20:07 | 0.35500 | | 4253.35 | -57.19 | 107.05 | |
| 08/30/23 | 12:20:44 | 0.36528 | | 4252.74 | -57.80 | 107.07 | |
| 08/30/23 | 12:21:23 | 0.37611 | | 4252.14 | -58.40 | 107.09 | |
| 08/30/23 | 12:22:02 | 0.38694 | | 4251.53 | -59.01 | 107.11 | |
| 08/30/23 | 12:22:43 | 0.39833 | | 4250.92 | -59.62 | 107.13 | |
| 08/30/23 | 12:23:25 | 0.41000 | | 4250.29 | -60.25 | 107.15 | |
| 08/30/23 | 12:24:08 | 0.42194 | | 4249.67 | -60.87 | 107.17 | |
| 08/30/23 | 12:24:52 | 0.43417 | | 4249.07 | -61.47 | 107.19 | |
| 08/30/23 | 12:25:38 | 0.44694 | | 4248.43 | -62.11 | 107.21 | |
| 08/30/23 | 12:26:25 | 0.46000 | | 4247.81 | -62.73 | 107.23 | |
| 08/30/23 | 12:27:13 | 0.47333 | | 4247.19 | -63.35 | 107.25 | |
| 08/30/23 | 12:28:03 | 0.48722 | | 4246.57 | -63.97 | 107.27 | |
| 08/30/23 | 12:28:54 | 0.50139 | | 4245.95 | -64.59 | 107.29 | |
| 08/30/23 | 12:29:46 | 0.51583 | | 4245.32 | -65.22 | 107.31 | |
| 08/30/23 | 12:30:41 | 0.53111 | | 4244.69 | -65.85 | 107.33 | |
| 08/30/23 | 12:31:36 | 0.54639 | | 4244.09 | -66.45 | 107.36 | |
| 08/30/23 | 12:32:34 | 0.56250 | | 4243.46 | -67.08 | 107.39 | |
| 08/30/23 | 12:33:33 | 0.57889 | | 4242.84 | -67.70 | 107.41 | |
| 08/30/23 | 12:34:34 | 0.59583 | | 4242.22 | -68.32 | 107.44 | |
| 08/30/23 | 12:35:37 | 0.61333 | | 4241.62 | -68.92 | 107.46 | |
| 08/30/23 | 12:36:41 | 0.63111 | | 4241.01 | -69.53 | 107.49 | |
| 08/30/23 | 12:37:47 | 0.64944 | | 4240.40 | -70.14 | 107.51 | |
| 08/30/23 | 12:38:56 | 0.66861 | | 4239.80 | -70.74 | 107.54 | |
| 08/30/23 | 12:40:06 | 0.68806 | | 4239.19 | -71.35 | 107.57 | |
| 08/30/23 | 12:41:18 | 0.70806 | | 4238.60 | -71.94 | 107.60 | |
| 08/30/23 | 12:42:33 | 0.72889 | | 4237.99 | -72.55 | 107.63 | |

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|  | <p>FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332</p> |  |
| RESERVOIR PRESSURE FALLOFF TEST | | |

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|--|--|
| Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable | Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500" |
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| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|----------|
| 08/30/23 | 12:43:49 | 0.75000 | | 4237.42 | -73.12 | 107.65 | |
| 08/30/23 | 12:45:08 | 0.77194 | | 4236.84 | -73.70 | 107.68 | |
| 08/30/23 | 12:46:29 | 0.79444 | | 4236.26 | -74.28 | 107.71 | |
| 08/30/23 | 12:47:53 | 0.81778 | | 4235.69 | -74.85 | 107.75 | |
| 08/30/23 | 12:49:19 | 0.84167 | | 4235.13 | -75.41 | 107.78 | |
| 08/30/23 | 12:50:47 | 0.86611 | | 4234.57 | -75.97 | 107.81 | |
| 08/30/23 | 12:52:18 | 0.89139 | | 4234.03 | -76.51 | 107.84 | |
| 08/30/23 | 12:53:52 | 0.91750 | | 4233.47 | -77.07 | 107.86 | |
| 08/30/23 | 12:55:28 | 0.94417 | | 4232.95 | -77.59 | 107.89 | |
| 08/30/23 | 12:57:07 | 0.97167 | | 4232.42 | -78.12 | 107.93 | |
| 08/30/23 | 12:58:50 | 1.00028 | | 4231.90 | -78.64 | 107.96 | |
| 08/30/23 | 13:00:35 | 1.02944 | | 4231.38 | -79.16 | 107.99 | |
| 08/30/23 | 13:02:23 | 1.05944 | | 4230.88 | -79.66 | 108.03 | |
| 08/30/23 | 13:04:14 | 1.09028 | | 4230.38 | -80.16 | 108.06 | |
| 08/30/23 | 13:06:09 | 1.12222 | | 4229.90 | -80.64 | 108.10 | |
| 08/30/23 | 13:08:07 | 1.15500 | | 4229.42 | -81.12 | 108.13 | |
| 08/30/23 | 13:10:08 | 1.18861 | | 4228.96 | -81.58 | 108.17 | |
| 08/30/23 | 13:12:13 | 1.22333 | | 4228.50 | -82.04 | 108.20 | |
| 08/30/23 | 13:14:22 | 1.25917 | | 4228.06 | -82.48 | 108.23 | |
| 08/30/23 | 13:16:34 | 1.29583 | | 4227.62 | -82.92 | 108.27 | |
| 08/30/23 | 13:18:50 | 1.33361 | | 4227.20 | -83.34 | 108.30 | |
| 08/30/23 | 13:21:10 | 1.37250 | | 4226.78 | -83.76 | 108.34 | |
| 08/30/23 | 13:23:35 | 1.41278 | | 4226.38 | -84.16 | 108.38 | |
| 08/30/23 | 13:26:03 | 1.45389 | | 4225.98 | -84.56 | 108.42 | |
| 08/30/23 | 13:28:36 | 1.49639 | | 4225.60 | -84.94 | 108.45 | |
| 08/30/23 | 13:31:13 | 1.54000 | | 4225.23 | -85.31 | 108.50 | |
| 08/30/23 | 13:33:55 | 1.58500 | | 4224.86 | -85.68 | 108.53 | |
| 08/30/23 | 13:36:42 | 1.63139 | | 4224.51 | -86.03 | 108.57 | |
| 08/30/23 | 13:39:33 | 1.67889 | | 4224.17 | -86.37 | 108.61 | |
| 08/30/23 | 13:42:30 | 1.72806 | | 4223.85 | -86.69 | 108.65 | |
| 08/30/23 | 13:45:31 | 1.77833 | | 4223.52 | -87.02 | 108.69 | |
| 08/30/23 | 13:48:38 | 1.83028 | | 4223.22 | -87.32 | 108.73 | |
| 08/30/23 | 13:51:51 | 1.88389 | | 4222.91 | -87.63 | 108.77 | |
| 08/30/23 | 13:55:09 | 1.93889 | | 4222.62 | -87.92 | 108.82 | |
| 08/30/23 | 13:58:32 | 1.99528 | | 4222.33 | -88.21 | 108.85 | |
| 08/30/23 | 14:02:02 | 2.05361 | | 4222.06 | -88.48 | 108.90 | |
| 08/30/23 | 14:05:38 | 2.11361 | | 4221.79 | -88.75 | 108.94 | |
| 08/30/23 | 14:09:20 | 2.17528 | | 4221.54 | -89.00 | 108.98 | |

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|  | <p>FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332</p> |  |
| <p>RESERVOIR PRESSURE FALLOFF TEST</p> | | |

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|---|---|
| <p>Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable</p> | <p>Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500"</p> |
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| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|----------|
| 08/30/23 | 14:13:09 | 2.23889 | | 4221.29 | -89.25 | 109.03 | |
| 08/30/23 | 14:17:04 | 2.30417 | | 4221.06 | -89.48 | 109.07 | |
| 08/30/23 | 14:21:06 | 2.37139 | | 4220.83 | -89.71 | 109.11 | |
| 08/30/23 | 14:25:16 | 2.44083 | | 4220.60 | -89.94 | 109.15 | |
| 08/30/23 | 14:29:32 | 2.51194 | | 4220.39 | -90.15 | 109.20 | |
| 08/30/23 | 14:33:56 | 2.58528 | | 4220.18 | -90.36 | 109.24 | |
| 08/30/23 | 14:38:28 | 2.66083 | | 4219.97 | -90.57 | 109.29 | |
| 08/30/23 | 14:43:08 | 2.73861 | | 4219.78 | -90.76 | 109.33 | |
| 08/30/23 | 14:47:56 | 2.81861 | | 4219.60 | -90.94 | 109.38 | |
| 08/30/23 | 14:52:52 | 2.90083 | | 4219.43 | -91.11 | 109.42 | |
| 08/30/23 | 14:57:57 | 2.98556 | | 4219.25 | -91.29 | 109.47 | |
| 08/30/23 | 15:03:11 | 3.07278 | | 4219.08 | -91.46 | 109.51 | |
| 08/30/23 | 15:08:34 | 3.16250 | | 4218.92 | -91.62 | 109.55 | |
| 08/30/23 | 15:14:06 | 3.25472 | | 4218.77 | -91.77 | 109.60 | |
| 08/30/23 | 15:19:48 | 3.34972 | | 4218.61 | -91.93 | 109.64 | |
| 08/30/23 | 15:25:40 | 3.44750 | | 4218.47 | -92.07 | 109.69 | |
| 08/30/23 | 15:31:43 | 3.54833 | | 4218.33 | -92.21 | 109.74 | |
| 08/30/23 | 15:37:56 | 3.65194 | | 4218.19 | -92.35 | 109.78 | |
| 08/30/23 | 15:44:20 | 3.75861 | | 4218.07 | -92.47 | 109.83 | |
| 08/30/23 | 15:50:55 | 3.86833 | | 4217.94 | -92.60 | 109.88 | |
| 08/30/23 | 15:57:41 | 3.98111 | | 4217.82 | -92.72 | 109.92 | |
| 08/30/23 | 16:04:40 | 4.09750 | | 4217.70 | -92.84 | 109.97 | |
| 08/30/23 | 16:11:51 | 4.21722 | | 4217.59 | -92.95 | 110.01 | |
| 08/30/23 | 16:19:14 | 4.34028 | | 4217.48 | -93.06 | 110.06 | |
| 08/30/23 | 16:26:50 | 4.46694 | | 4217.38 | -93.16 | 110.10 | |
| 08/30/23 | 16:34:40 | 4.59750 | | 4217.28 | -93.26 | 110.15 | |
| 08/30/23 | 16:42:43 | 4.73167 | | 4217.19 | -93.35 | 110.20 | |
| 08/30/23 | 16:51:00 | 4.86972 | | 4217.09 | -93.45 | 110.24 | |
| 08/30/23 | 16:59:32 | 5.01194 | | 4217.00 | -93.54 | 110.29 | |
| 08/30/23 | 17:08:19 | 5.15833 | | 4216.91 | -93.63 | 110.33 | |
| 08/30/23 | 17:17:21 | 5.30889 | | 4216.82 | -93.72 | 110.38 | |
| 08/30/23 | 17:26:39 | 5.46389 | | 4216.74 | -93.80 | 110.42 | |
| 08/30/23 | 17:36:14 | 5.62361 | | 4216.66 | -93.88 | 110.47 | |
| 08/30/23 | 17:46:05 | 5.78778 | | 4216.58 | -93.96 | 110.52 | |
| 08/30/23 | 17:56:13 | 5.95667 | | 4216.51 | -94.03 | 110.56 | |
| 08/30/23 | 18:06:40 | 6.13083 | | 4216.44 | -94.10 | 110.60 | |
| 08/30/23 | 18:17:24 | 6.30972 | | 4216.37 | -94.17 | 110.65 | |
| 08/30/23 | 18:28:27 | 6.49389 | | 4216.30 | -94.24 | 110.69 | |

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|  | <p>FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332</p> |  |
| <p>RESERVOIR PRESSURE FALLOFF TEST</p> | | |

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|---|---|
| <p>Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable</p> | <p>Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500"</p> |
|---|---|

| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|-----------------------|
| 08/30/23 | 18:39:50 | 6.68361 | | 4216.24 | -94.30 | 110.74 | |
| 08/30/23 | 18:51:32 | 6.87861 | | 4216.18 | -94.36 | 110.78 | |
| 08/30/23 | 19:03:36 | 7.07972 | | 4216.12 | -94.42 | 110.83 | |
| 08/30/23 | 19:16:00 | 7.28639 | | 4216.05 | -94.49 | 110.87 | |
| 08/30/23 | 19:28:46 | 7.49917 | | 4216.00 | -94.54 | 110.91 | |
| 08/30/23 | 19:41:54 | 7.71806 | | 4215.94 | -94.60 | 110.95 | |
| 08/30/23 | 19:55:25 | 7.94333 | | 4215.87 | -94.67 | 110.99 | |
| 08/30/23 | 20:09:20 | 8.17528 | | 4215.82 | -94.72 | 111.04 | |
| 08/30/23 | 20:23:40 | 8.41417 | | 4215.75 | -94.79 | 111.07 | |
| 08/30/23 | 20:38:24 | 8.65972 | | 4215.68 | -94.86 | 111.12 | |
| 08/30/23 | 20:53:35 | 8.91278 | | 4215.62 | -94.92 | 111.15 | |
| 08/30/23 | 21:09:11 | 9.17278 | | 4215.58 | -94.96 | 111.19 | |
| 08/30/23 | 21:25:16 | 9.44083 | | 4215.55 | -94.99 | 111.23 | |
| 08/30/23 | 21:41:48 | 9.71639 | | 4215.50 | -95.04 | 111.27 | |
| 08/30/23 | 21:58:50 | 10.00028 | | 4215.45 | -95.09 | 111.31 | |
| 08/30/23 | 22:16:21 | 10.29222 | | 4215.40 | -95.14 | 111.35 | |
| 08/30/23 | 22:34:23 | 10.59278 | | 4215.33 | -95.21 | 111.39 | |
| 08/30/23 | 22:52:56 | 10.90194 | | 4215.27 | -95.27 | 111.42 | |
| 08/30/23 | 23:12:02 | 11.22028 | | 4215.19 | -95.35 | 111.47 | |
| 08/30/23 | 23:31:42 | 11.54806 | | 4215.11 | -95.43 | 111.50 | |
| 08/30/23 | 23:51:56 | 11.88528 | | 4215.03 | -95.51 | 111.54 | |
| 08/31/23 | 00:12:45 | 12.23222 | | 4214.94 | -95.60 | 111.57 | |
| 08/31/23 | 00:34:11 | 12.58944 | | 4214.85 | -95.69 | 111.61 | |
| 08/31/23 | 00:56:14 | 12.95694 | | 4214.77 | -95.77 | 111.64 | |
| 08/31/23 | 01:18:56 | 13.33528 | | 4214.67 | -95.87 | 111.67 | |
| 08/31/23 | 01:42:18 | 13.72472 | | 4214.56 | -95.98 | 111.67 | |
| 08/31/23 | 02:06:21 | 14.12556 | | 4214.46 | -96.08 | 111.62 | |
| 08/31/23 | 02:31:06 | 14.53806 | | 4214.36 | -96.18 | 111.60 | |
| 08/31/23 | 02:54:50 | 14.93361 | | 4214.27 | -96.27 | 111.56 | BHT began decreasing. |
| 08/31/23 | 02:56:34 | 14.96250 | | 4214.23 | -96.31 | 111.51 | |
| 08/31/23 | 03:22:47 | 15.39944 | | 4213.69 | -96.85 | 110.76 | |
| 08/31/23 | 03:49:46 | 15.84917 | | 4213.50 | -97.04 | 110.38 | |
| 08/31/23 | 04:17:32 | 16.31194 | | 4213.08 | -97.46 | 109.23 | |
| 08/31/23 | 04:42:52 | 16.73417 | | 4212.62 | -97.92 | 108.62 | BHT began increasing. |
| 08/31/23 | 04:46:06 | 16.78806 | | 4212.55 | -97.99 | 108.66 | |
| 08/31/23 | 05:15:31 | 17.27833 | | 4212.49 | -98.05 | 109.51 | |
| 08/31/23 | 05:45:48 | 17.78306 | | 4212.51 | -98.03 | 110.16 | |
| 08/31/23 | 06:16:57 | 18.30222 | | 4212.46 | -98.08 | 110.50 | |

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|  | <p>FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332</p> |  |
| <p>RESERVOIR PRESSURE FALLOFF TEST</p> | | |

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|---|---|
| <p>Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable</p> | <p>Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500"</p> |
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| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|------------------------------------|
| 08/31/23 | 06:49:01 | 18.83667 | | 4212.50 | -98.04 | 110.86 | |
| 08/31/23 | 07:22:01 | 19.38667 | | 4212.47 | -98.07 | 111.07 | |
| 08/31/23 | 07:55:59 | 19.95278 | | 4212.28 | -98.26 | 111.32 | |
| 08/31/23 | 08:30:56 | 20.53528 | | 4212.19 | -98.35 | 111.54 | |
| 08/31/23 | 09:06:55 | 21.13500 | | 4212.10 | -98.44 | 111.57 | |
| 08/31/23 | 09:43:57 | 21.75222 | | 4212.55 | -97.99 | 111.50 | |
| 08/31/23 | 10:22:03 | 22.38722 | | 4213.17 | -97.37 | 111.54 | |
| 08/31/23 | 11:01:17 | 23.04111 | | 4213.42 | -97.12 | 111.69 | |
| 08/31/23 | 11:41:39 | 23.71389 | | 4213.46 | -97.08 | 111.80 | |
| 08/31/23 | 12:23:12 | 24.40639 | | 4213.45 | -97.09 | 111.88 | |
| 08/31/23 | 13:05:57 | 25.11889 | | 4213.43 | -97.11 | 111.96 | |
| 08/31/23 | 13:49:58 | 25.85250 | | 4213.38 | -97.16 | 112.03 | |
| 08/31/23 | 14:35:16 | 26.60750 | | 4213.30 | -97.24 | 112.09 | |
| 08/31/23 | 15:21:53 | 27.38444 | | 4213.22 | -97.32 | 112.14 | |
| 08/31/23 | 16:09:51 | 28.18389 | | 4213.16 | -97.38 | 112.19 | |
| 08/31/23 | 16:59:14 | 29.00694 | | 4213.12 | -97.42 | 112.24 | |
| 08/31/23 | 17:50:03 | 29.85389 | | 4213.08 | -97.46 | 112.29 | |
| 08/31/23 | 18:42:22 | 30.72583 | | 4213.02 | -97.52 | 112.33 | |
| 08/31/23 | 19:36:12 | 31.62306 | | 4212.99 | -97.55 | 112.38 | |
| 08/31/23 | 20:31:36 | 32.54639 | | 4212.99 | -97.55 | 112.41 | |
| 08/31/23 | 21:28:37 | 33.49667 | | 4212.97 | -97.57 | 112.45 | |
| 08/31/23 | 22:27:18 | 34.47472 | | 4212.93 | -97.61 | 112.48 | |
| 08/31/23 | 23:27:42 | 35.48139 | | 4212.87 | -97.67 | 112.52 | |
| 09/01/23 | 00:29:52 | 36.51750 | | 4212.77 | -97.77 | 112.55 | |
| 09/01/23 | 01:33:51 | 37.58389 | | 4212.67 | -97.87 | 112.58 | |
| 09/01/23 | 01:48:02 | 37.82028 | | 4212.63 | -97.91 | 112.58 | BHT began decreasing. |
| 09/01/23 | 02:39:42 | 38.68139 | | 4212.41 | -98.13 | 112.37 | |
| 09/01/23 | 03:47:28 | 39.81083 | | 4211.36 | -99.18 | 110.48 | |
| 09/01/23 | 04:31:16 | 40.54083 | | 4211.02 | -99.52 | 109.37 | BHT began increasing. |
| 09/01/23 | 04:57:13 | 40.97333 | | 4210.93 | -99.61 | 109.69 | |
| 09/01/23 | 06:09:00 | 42.16972 | | 4210.99 | -99.55 | 110.74 | |
| 09/01/23 | 07:22:53 | 43.40111 | | 4211.02 | -99.52 | 111.38 | |
| 09/01/23 | 08:19:00 | 44.33639 | | 4211.68 | -98.86 | 111.67 | |
| 09/01/23 | 08:19:32 | 44.34528 | 920 | 4211.69 | -98.85 | 111.67 | Ended 44.3-hr Falloff Test. |
| 09/01/23 | 08:19:33 | 44.34556 | | 4211.60 | | 111.67 | POOH making static gradient stops. |
| 09/01/23 | 08:19:39 | 44.34722 | | 4203.93 | | 111.67 | BHT began increasing POOH. |
| 09/01/23 | 08:20:00 | 44.35306 | | 4166.92 | | 111.79 | |
| 09/01/23 | 08:21:00 | 44.36972 | | 4059.53 | | 112.09 | |

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|  | <p>FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332</p> |  |
| <p>RESERVOIR PRESSURE FALLOFF TEST</p> | | |

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|---|---|
| <p>Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable</p> | <p>Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500"</p> |
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| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|----------------------------|
| 09/01/23 | 08:21:01 | 44.37000 | | 4057.91 | | 112.09 | BHT began decreasing POOH. |
| 09/01/23 | 08:22:00 | 44.38639 | | 3970.61 | | 111.51 | |
| 09/01/23 | 08:22:10 | 44.38917 | | 3963.31 | | 111.39 | Arrived at 7000 ft stop. |
| 09/01/23 | 08:23:00 | 44.40306 | | 3962.90 | | 111.31 | |
| 09/01/23 | 08:24:00 | 44.41972 | | 3962.89 | | 111.29 | |
| 09/01/23 | 08:25:00 | 44.43639 | | 3962.89 | | 111.28 | |
| 09/01/23 | 08:26:00 | 44.45306 | | 3962.89 | | 111.26 | |
| 09/01/23 | 08:27:00 | 44.46972 | | 3962.91 | | 111.25 | |
| 09/01/23 | 08:28:00 | 44.48639 | | 3962.91 | | 111.24 | |
| 09/01/23 | 08:28:22 | 44.49250 | | 3962.87 | | 111.23 | Left 7000 ft stop. |
| 09/01/23 | 08:29:00 | 44.50306 | | 3900.55 | | 110.87 | |
| 09/01/23 | 08:30:00 | 44.51972 | | 3800.98 | | 109.73 | |
| 09/01/23 | 08:31:00 | 44.53639 | | 3696.69 | | 108.57 | |
| 09/01/23 | 08:32:00 | 44.55306 | | 3593.99 | | 107.47 | |
| 09/01/23 | 08:32:43 | 44.56500 | | 3530.34 | | 106.62 | Arrived at 6000 ft stop. |
| 09/01/23 | 08:33:00 | 44.56972 | | 3529.70 | | 106.48 | |
| 09/01/23 | 08:34:00 | 44.58639 | | 3529.43 | | 106.44 | |
| 09/01/23 | 08:35:00 | 44.60306 | | 3529.39 | | 106.43 | |
| 09/01/23 | 08:36:00 | 44.61972 | | 3529.39 | | 106.43 | |
| 09/01/23 | 08:37:00 | 44.63639 | | 3529.40 | | 106.43 | |
| 09/01/23 | 08:38:00 | 44.65306 | | 3529.41 | | 106.43 | |
| 09/01/23 | 08:38:21 | 44.65889 | | 3529.41 | | 106.42 | Left 6000 ft stop. |
| 09/01/23 | 08:39:00 | 44.66972 | | 3464.32 | | 105.85 | |
| 09/01/23 | 08:40:00 | 44.68639 | | 3359.01 | | 104.71 | |
| 09/01/23 | 08:41:00 | 44.70306 | | 3251.69 | | 103.55 | |
| 09/01/23 | 08:42:00 | 44.71972 | | 3144.41 | | 102.39 | |
| 09/01/23 | 08:42:53 | 44.73444 | | 3095.57 | | 101.63 | Arrived at 5000 ft stop. |
| 09/01/23 | 08:43:00 | 44.73639 | | 3095.50 | | 101.63 | |
| 09/01/23 | 08:44:00 | 44.75306 | | 3095.41 | | 101.60 | |
| 09/01/23 | 08:45:00 | 44.76972 | | 3095.40 | | 101.59 | |
| 09/01/23 | 08:46:00 | 44.78639 | | 3095.39 | | 101.59 | |
| 09/01/23 | 08:47:00 | 44.80306 | | 3095.40 | | 101.59 | |
| 09/01/23 | 08:48:00 | 44.81972 | | 3095.41 | | 101.58 | |
| 09/01/23 | 08:48:22 | 44.82583 | | 3095.40 | | 101.58 | Left 5000 ft stop. |
| 09/01/23 | 08:49:00 | 44.83639 | | 3033.00 | | 101.03 | |
| 09/01/23 | 08:50:00 | 44.85306 | | 2923.11 | | 99.82 | |
| 09/01/23 | 08:51:00 | 44.86972 | | 2813.80 | | 98.78 | |
| 09/01/23 | 08:52:00 | 44.88639 | | 2705.46 | | 97.84 | |

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|---|--|---|
|  | <p>FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332</p> |  |
| <p>RESERVOIR PRESSURE FALLOFF TEST</p> | | |

| | |
|---|---|
| <p>Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable</p> | <p>Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500"</p> |
|---|---|

| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|--------------------------|
| 09/01/23 | 08:52:59 | 44.90278 | | 2661.14 | | 97.22 | Arrived at 4000 ft stop. |
| 09/01/23 | 08:53:00 | 44.90306 | | 2661.20 | | 97.22 | |
| 09/01/23 | 08:54:00 | 44.91972 | | 2661.13 | | 97.21 | |
| 09/01/23 | 08:55:00 | 44.93639 | | 2661.13 | | 97.19 | |
| 09/01/23 | 08:56:00 | 44.95306 | | 2661.13 | | 97.18 | |
| 09/01/23 | 08:57:00 | 44.96972 | | 2661.13 | | 97.17 | |
| 09/01/23 | 08:58:00 | 44.98639 | | 2661.12 | | 97.16 | |
| 09/01/23 | 08:58:15 | 44.99056 | | 2661.12 | | 97.16 | Left 4000 ft stop. |
| 09/01/23 | 08:59:00 | 45.00306 | | 2594.50 | | 96.77 | |
| 09/01/23 | 09:00:00 | 45.01972 | | 2486.39 | | 96.01 | |
| 09/01/23 | 09:01:00 | 45.03639 | | 2375.09 | | 95.11 | |
| 09/01/23 | 09:02:00 | 45.05306 | | 2266.85 | | 94.35 | |
| 09/01/23 | 09:02:48 | 45.06639 | | 2227.19 | | 93.89 | Arrived at 3000 ft stop. |
| 09/01/23 | 09:03:00 | 45.06972 | | 2227.15 | | 93.88 | |
| 09/01/23 | 09:04:00 | 45.08639 | | 2227.08 | | 93.87 | |
| 09/01/23 | 09:05:00 | 45.10306 | | 2227.09 | | 93.87 | |
| 09/01/23 | 09:06:00 | 45.11972 | | 2227.08 | | 93.86 | |
| 09/01/23 | 09:07:00 | 45.13639 | | 2227.07 | | 93.86 | |
| 09/01/23 | 09:08:00 | 45.15306 | | 2227.09 | | 93.85 | |
| 09/01/23 | 09:08:29 | 45.16111 | | 2227.08 | | 93.85 | Left 3000 ft stop. |
| 09/01/23 | 09:09:00 | 45.16972 | | 2167.88 | | 93.55 | |
| 09/01/23 | 09:10:00 | 45.18639 | | 2046.21 | | 92.70 | |
| 09/01/23 | 09:11:00 | 45.20306 | | 1924.62 | | 91.27 | |
| 09/01/23 | 09:12:00 | 45.21972 | | 1812.66 | | 90.16 | |
| 09/01/23 | 09:12:35 | 45.22944 | | 1794.38 | | 89.92 | Arrived at 2000 ft stop. |
| 09/01/23 | 09:13:00 | 45.23639 | | 1794.31 | | 89.91 | |
| 09/01/23 | 09:14:00 | 45.25306 | | 1794.31 | | 89.90 | |
| 09/01/23 | 09:15:00 | 45.26972 | | 1794.30 | | 89.90 | |
| 09/01/23 | 09:16:00 | 45.28639 | | 1794.30 | | 89.89 | |
| 09/01/23 | 09:17:00 | 45.30306 | | 1794.31 | | 89.89 | |
| 09/01/23 | 09:18:00 | 45.31972 | | 1794.31 | | 89.89 | |
| 09/01/23 | 09:18:14 | 45.32361 | | 1794.31 | | 89.89 | Left 2000 ft stop. |
| 09/01/23 | 09:19:00 | 45.33639 | | 1664.85 | | 89.27 | |
| 09/01/23 | 09:20:00 | 45.35306 | | 1555.71 | | 88.40 | |
| 09/01/23 | 09:21:00 | 45.36972 | | 1416.66 | | 87.47 | |
| 09/01/23 | 09:21:53 | 45.38444 | | 1361.26 | | 86.54 | Arrived at 1000 ft stop. |
| 09/01/23 | 09:22:00 | 45.38639 | | 1361.20 | | 86.53 | |
| 09/01/23 | 09:23:00 | 45.40306 | | 1361.17 | | 86.52 | |

| | | |
|---|--|---|
|  FESCO <small>PETROLEUM ENGINEERS</small> | FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332 |  FESCO <small>PETROLEUM ENGINEERS</small> |
| RESERVOIR PRESSURE FALLOFF TEST | | |

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|--|--|
| Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 3 Field: Davonia Location: Eddy County, NM Perfs: 7660 - 8450; 8540 - 8620 ft (MD) Formation: Unavailable | Test Date: 08/30 - 09/01/2023 Gauge Depth: 5772 ft Gauge Type: Electronic Gauge SN: DC-22483 Gauge Range: 15000 psi Gauge OD: 1.2500" |
|--|--|

| Test Date mm/dd/yy | Real Time hh:mm:ss | Delta Time hours | WHP psia | BHP psia | Delta BHP psi | Temp. °F | Comments |
|-----------------------|-----------------------|---------------------|-------------|-------------|------------------|-------------|----------------------------|
| 09/01/23 | 09:24:00 | 45.41972 | | 1361.17 | | 86.52 | |
| 09/01/23 | 09:25:00 | 45.43639 | | 1361.18 | | 86.51 | |
| 09/01/23 | 09:26:00 | 45.45306 | | 1361.18 | | 86.51 | |
| 09/01/23 | 09:27:00 | 45.46972 | | 1361.18 | | 86.50 | |
| 09/01/23 | 09:28:00 | 45.48639 | | 1361.18 | | 86.50 | |
| 09/01/23 | 09:28:14 | 45.49028 | | 1361.18 | | 86.50 | Left 1000 ft stop. |
| 09/01/23 | 09:29:00 | 45.50306 | | 1256.03 | | 86.28 | |
| 09/01/23 | 09:30:00 | 45.51972 | | 1115.06 | | 84.91 | |
| 09/01/23 | 09:31:00 | 45.53639 | | 967.81 | | 84.70 | |
| 09/01/23 | 09:32:00 | 45.55306 | | 921.31 | | 77.29 | |
| 09/01/23 | 09:32:13 | 45.55667 | | 917.21 | | 77.00 | Gauge at surface. |
| 09/01/23 | 09:33:00 | 45.56972 | | 917.30 | | 76.74 | |
| 09/01/23 | 09:34:00 | 45.58639 | | 917.50 | | 76.61 | |
| 09/01/23 | 09:35:00 | 45.60306 | | 917.61 | | 76.47 | |
| 09/01/23 | 09:36:00 | 45.61972 | | 917.55 | | 76.28 | |
| 09/01/23 | 09:37:00 | 45.63639 | | 917.53 | | 76.13 | |
| 09/01/23 | 09:38:00 | 45.65306 | | 917.53 | | 76.00 | |
| 09/01/23 | 09:39:00 | 45.66972 | | 917.47 | | 75.92 | |
| 09/01/23 | 09:40:00 | 45.68639 | | 917.47 | | 75.87 | |
| 09/01/23 | 09:40:35 | 45.69611 | 920 | 917.48 | | 75.85 | Closed crown valve. |
| 09/01/23 | 09:41:00 | 45.70306 | | 916.21 | | 75.84 | |
| 09/01/23 | 09:41:04 | 45.70417 | | 916.11 | | 75.84 | Pressured down lubricator. |
| 09/01/23 | 09:41:17 | 45.70778 | | 7.87 | | 75.74 | Test completed. |
| 09/01/23 | 09:45:00 | 45.76972 | | 8.46 | | 75.20 | |
| 09/01/23 | 09:50:00 | 45.85306 | | 10.24 | | 70.16 | |
| 09/01/23 | 09:50:49 | 45.86667 | | 10.15 | | 70.00 | Powered down gauge. |

Remarks: RIH with electronic gauges making injecting gradient stops to 7572 ft. Injected water into well for 1 hr. SI well for 44.3 hr BHP Falloff Test. POOH making static gradient stops. RDMO.

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|-----------------------------|--|
| Job No.: J202309011401.001A | Certified: FESCO, Ltd. - Midland, TX By: <u>Michael Carnes</u> District Manager - (432) 332-3211 |
|-----------------------------|--|

Attachment 5 Falloff Test Summary

Petrotek

WDW-3 2023 Falloff Test Summary

Reservoir Properties

| | |
|-------------------------------------|----------------------------|
| Net Pay (h) | 175 ft |
| Porosity (Φ) | 10.0 % |
| Formation Compressibility (c_f) | 8.20E-06 psi ⁻¹ |
| Total Compressibility (c_t) | 1.09E-05 psi ⁻¹ |
| Wellbore Radius (r_w) | 0.325 ft |

Fluid Properties

| | |
|---------------------------------|----------------------------|
| Viscosity (μ) | 0.56 cp |
| Fluid Compressibility (c_f) | 2.70E-06 psi ⁻¹ |
| Formation Volume Factor (B) | 1.00 bbl/stb |

Model Parameters

| | |
|------------------|------------------|
| Wellbore Storage | Changing hegeman |
| Well Model | Vertical |
| Reservoir Model | Homogenous |
| Boundary Model | Infinite |

Analysis Results

Well & Wellbore

| | |
|--------------------------|------------------|
| Initial Wellbore Storage | 2.77E-01 bbl/psi |
| Final Wellbore Storage | 9.21E-01 bbl/psi |
| D_t [changing storage] | 1.96E-01 hr |
| Skin | 11.7 |

Reservoir & Boundary

| | |
|-----------------------------------|------------------|
| Permeability (k) | 370 md |
| Transmissibility | 115,729 md-ft/cp |
| Radius of Investigation (r_i) | 4,792 ft |

Attachment 6 AOR Well List

Petrotek

| Operator | Well Name | API | Well Type | PLSS Location | Latitude | Longitude | Well Status | SPUD Date | Plug Date |
|--|-----------------------------------|--------------|-----------|---------------|----------|------------|-------------------------|------------|------------|
| APACHE CORPORATION | EMPIRE ABO UNIT #143A | 30-015-22896 | Oil | K-02-185-27E | 32.77410 | -104.24940 | Active | 4/16/1979 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #015B | 30-015-00741 | Oil | G-02-185-27E | 32.77700 | -104.24710 | Active | 2/1/1900 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #015 | 30-015-00716 | Oil | J-02-185-27E | 32.77460 | -104.24660 | Active | 2/11/1959 | - |
| REMNANT OIL OPERATING, LLC | SOUTH RED LAKE II UNIT #038 | 30-015-00737 | Oil | B-02-185-27E | 32.78090 | -104.24600 | Active | 2/1/1900 | - |
| APACHE CORPORATION | SCBP STATE #001 | 30-015-32946 | Oil | J-02-185-27E | 32.77520 | -104.24600 | Active | 3/14/2005 | - |
| REMNANT OIL OPERATING, LLC | SOUTH RED LAKE II UNIT #036 | 30-015-00721 | Oil | A-02-185-27E | 32.78250 | -104.24400 | Active | 10/21/1941 | - |
| RILEY PERMIAN OPERATING COMPANY, LLC | STATE H #002 | 30-015-35814 | Oil | H-02-185-27E | 32.77770 | -104.24210 | Active | 10/31/2007 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #016 | 30-015-00717 | Oil | I-02-185-27E | 32.77460 | -104.24280 | Active | 3/30/1959 | - |
| REMNANT OIL OPERATING, LLC | SOUTH RED LAKE II UNIT #037 | 30-015-00715 | Injection | D-01-185-27E | 32.78250 | -104.23970 | Active | 2/28/1948 | - |
| APACHE CORPORATION | AAO FEDERAL #022 | 30-015-42335 | Oil | D-01-185-27E | 32.78120 | -104.23970 | Active | 7/27/2014 | - |
| APACHE CORPORATION | AAO FEDERAL #030 | 30-015-42360 | Oil | M-01-185-27E | 32.77260 | -104.23970 | Active | 7/20/2014 | - |
| Spur Energy Partners LLC | BIG BOY STATE #002 | 30-015-40428 | Oil | M-36-175-27E | 32.78390 | -104.23920 | Active | 4/27/2013 | - |
| LIU VENTURES, LLC DBA MARKER OIL & GAS | STATE #007 | 30-015-21623 | Oil | M-36-175-27E | 32.78440 | -104.23930 | Active | 9/16/1975 | - |
| APACHE CORPORATION | AAO FEDERAL #009 | 30-015-34387 | Oil | L-01-185-27E | 32.77460 | -104.23860 | Active | 11/7/2005 | - |
| HF Sinclair Navajo Refining LLC | WDW #002 | 30-015-20894 | SWD | E-12-185-27E | 32.76370 | -104.23850 | Active | 5/5/1999 | - |
| APACHE CORPORATION | AAO FEDERAL #011 | 30-015-34555 | Oil | M-01-185-27E | 32.77160 | -104.23850 | Active | 2/15/2006 | - |
| LIU VENTURES, LLC DBA MARKER OIL & GAS | STATE #006 | 30-015-10184 | Oil | M-36-175-27E | 32.78430 | -104.23780 | Active | 3/3/1963 | - |
| APACHE CORPORATION | AAO FEDERAL #020 | 30-015-42036 | Oil | E-01-185-27E | 32.77730 | -104.23770 | Active | 4/10/2014 | - |
| Spur Energy Partners LLC | BIG BOY STATE #004 | 30-015-40429 | Oil | M-36-175-27E | 32.78470 | -104.23820 | Active | 8/28/2014 | - |
| APACHE CORPORATION | AAO FEDERAL #025 | 30-015-42361 | Oil | L-01-185-27E | 32.77460 | -104.23730 | Active | 6/23/2014 | - |
| APACHE CORPORATION | AAO FEDERAL #029 | 30-015-42339 | Oil | M-01-185-27E | 32.77010 | -104.23740 | Active | 6/16/2014 | - |
| APACHE CORPORATION | AAO FEDERAL #001 | 30-015-32307 | Oil | D-01-185-27E | 32.78240 | -104.23760 | Active | 11/20/2002 | - |
| HARLOW ENTERPRISES LLC | COMSTOCK FEDERAL #003 | 30-015-25545 | Oil | M-12-185-27E | 32.75730 | -104.23750 | Active | 5/19/1986 | - |
| MEWBOURNE OIL CO | CHALK BLUFF 36 STATE #001 | 30-015-27286 | Oil | M-36-175-27E | 32.78520 | -104.23760 | Active | 2/2/1993 | - |
| MEWBOURNE OIL CO | CHALK BLUFF FEDERAL COM #002 | 30-015-26741 | Gas | F-01-185-27E | 32.77880 | -104.23630 | Active | 5/13/1991 | - |
| APACHE CORPORATION | AAO FEDERAL #021 | 30-015-42334 | Oil | C-01-185-27E | 32.78060 | -104.23550 | Active | 5/27/2014 | - |
| APACHE CORPORATION | AAO FEDERAL #026 | 30-015-42338 | Oil | K-01-185-27E | 32.77530 | -104.23530 | Active | 6/10/2014 | - |
| HARLOW ENTERPRISES LLC | COMSTOCK FEDERAL #002 | 30-015-25201 | Oil | K-12-185-27E | 32.75910 | -104.23490 | Active | 3/16/1985 | - |
| APACHE CORPORATION | AAO FEDERAL #012 | 30-015-34998 | Oil | N-01-185-27E | 32.77150 | -104.23520 | Active | 8/13/2006 | - |
| APACHE CORPORATION | AAO FEDERAL #006 | 30-015-34071 | Oil | F-01-185-27E | 32.77740 | -104.23430 | Active | 7/6/2005 | - |
| APACHE CORPORATION | AAO FEDERAL #013 | 30-015-00710 | Oil | C-01-185-27E | 32.78150 | -104.23430 | Active | 7/14/1959 | - |
| APACHE CORPORATION | AAO FEDERAL #027 | 30-015-42359 | Oil | K-01-185-27E | 32.77440 | -104.23390 | Active | 7/3/2014 | - |
| APACHE CORPORATION | AAO FEDERAL #010 | 30-015-34576 | Oil | K-01-185-27E | 32.77470 | -104.23360 | Active | 6/2/2006 | - |
| HF Sinclair Navajo Refining LLC | WDW #003 | 30-015-26575 | SWD | N-01-185-27E | 32.77120 | -104.23330 | Active | 12/22/1990 | - |
| APACHE CORPORATION | AAO FEDERAL #019 | 30-015-42051 | Oil | F-01-185-27E | 32.77700 | -104.23320 | Active | 4/2/2014 | - |
| APACHE CORPORATION | AAO FEDERAL #016 | 30-015-42026 | Oil | C-01-185-27E | 32.77970 | -104.23280 | Active | 3/20/2014 | - |
| BILL L MILLER | CHUKKA FEDERAL #001 | 30-015-25270 | Oil | F-12-185-27E | 32.76270 | -104.23310 | Active | 4/23/1985 | - |
| APACHE CORPORATION | AAO FEDERAL #028 | 30-015-42358 | Oil | N-01-185-27E | 32.76950 | -104.23250 | Active | 7/12/2014 | - |
| APACHE CORPORATION | AAO FEDERAL #015 | 30-015-42025 | Oil | B-01-185-27E | 32.78020 | -104.23140 | Active | 3/15/2014 | - |
| HARLOW ENTERPRISES LLC | COMSTOCK FEDERAL #007 | 30-015-00874 | Oil | J-12-185-27E | 32.76090 | -104.23120 | Active | 7/28/1948 | - |
| APACHE CORPORATION | AAO FEDERAL SWD #001 | 30-015-42549 | SWD | G-01-185-27E | 32.77650 | -104.23130 | Active | 10/24/2014 | - |
| HARLOW ENTERPRISES LLC | COMSTOCK FEDERAL #009 | 30-015-25738 | Oil | G-12-185-27E | 32.76270 | -104.23110 | Active | 4/25/1987 | - |
| Spur Energy Partners LLC | BIG BOY STATE #006 | 30-015-39324 | Oil | O-36-175-27E | 32.78460 | -104.23080 | Active | 12/18/2011 | - |
| Spur Energy Partners LLC | BIG BOY STATE #008 | 30-015-39326 | Oil | O-36-175-27E | 32.78400 | -104.22860 | Active | 5/6/2013 | - |
| APACHE CORPORATION | AAO FEDERAL #007 | 30-015-33473 | Oil | G-01-185-27E | 32.77840 | -104.22890 | Active | 10/22/2004 | - |
| APACHE CORPORATION | AAO FEDERAL #003 | 30-015-32309 | Oil | B-01-185-27E | 32.78240 | -104.22910 | Active | 3/13/2003 | - |
| APACHE CORPORATION | AAO FEDERAL #018 | 30-015-42035 | Oil | G-01-185-27E | 32.77690 | -104.22890 | Active | 8/9/2014 | - |
| APACHE CORPORATION | AAO FEDERAL #004 | 30-015-32310 | Oil | O-1-185-27E | 32.78050 | -104.22680 | Active | 7/14/2003 | - |
| RILEY PERMIAN OPERATING COMPANY, LLC | CHALK BLUFF FEDERAL SWD #001 | 30-015-27163 | SWD | I-01-185-27E | 32.77440 | -104.22680 | Active | 5/10/1981 | - |
| RILEY PERMIAN OPERATING COMPANY, LLC | FEDERAL T SWD #001 | 30-015-26404 | SWD | A-12-185-27E | 32.76720 | -104.22680 | Active | 6/28/1990 | - |
| HARLOW ENTERPRISES LLC | COMSTOCK FEDERAL #006 | 30-015-25099 | Oil | H-12-185-27E | 32.76400 | -104.22680 | Active | 8/18/1985 | - |
| APACHE CORPORATION | AAO FEDERAL #017 | 30-015-42027 | Oil | H-01-185-27E | 32.77870 | -104.22640 | Active | 3/27/2014 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #203 | 30-015-22856 | Oil | H-01-185-27E | 32.77660 | -104.22580 | Active | 9/13/1978 | - |
| APACHE CORPORATION | AAO FEDERAL #023 | 30-015-42336 | Oil | H-01-185-27E | 32.77700 | -104.22460 | Active | 8/4/2014 | - |
| APACHE CORPORATION | AAO FEDERAL #014 | 30-015-42024 | Oil | A-01-185-27E | 32.78290 | -104.22400 | Active | 3/7/2014 | - |
| APACHE CORPORATION | AAO FEDERAL #024 | 30-015-42337 | Oil | A-01-185-27E | 32.78050 | -104.22440 | Active | 6/3/2014 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #020B | 30-015-00699 | Oil | P-01-185-27E | 32.77150 | -104.22460 | Active | 11/16/1961 | - |
| APACHE CORPORATION | AAO FEDERAL #008 | 30-015-33784 | Oil | O-1-185-27E | 32.77870 | -104.22460 | Active | 2/28/2005 | - |
| LIU VENTURES, LLC DBA MARKER OIL & GAS | LAUREL STATE #003 | 30-015-31319 | Oil | E-07-185-28E | 32.76260 | -104.22250 | Active | 10/2/2000 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #021C | 30-015-02619 | Oil | E-06-185-28E | 32.77780 | -104.22140 | Active | 10/8/1959 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #021B | 30-015-02613 | Oil | D-06-185-28E | 32.78050 | -104.22140 | Active | 12/8/1959 | - |
| LIU VENTURES, LLC DBA MARKER OIL & GAS | LAUREL STATE #002 | 30-015-25675 | Oil | E-07-185-28E | 32.76440 | -104.22030 | Active | 10/28/1988 | - |
| MEWBOURNE OIL CO | CHALK BLUFF 6 STATE #001 | 30-015-26943 | Gas | M-06-185-28E | 32.77170 | -104.22120 | Active | 2/17/1992 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #211 | 30-015-21395 | Oil | E-06-185-28E | 32.77600 | -104.21930 | Active | 12/12/1974 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #022C | 30-015-02610 | Oil | N-06-185-28E | 32.77160 | -104.21790 | Active | 7/20/1960 | - |
| LIU VENTURES, LLC DBA MARKER OIL & GAS | LAUREL STATE #001 | 30-015-25997 | Oil | C-07-185-28E | 32.76640 | -104.21780 | Active | 12/15/1986 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #022F | 30-015-02623 | Oil | K-06-185-28E | 32.77510 | -104.21680 | Active | 1/28/1960 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #016B | 30-015-00724 | Oil | A-02-185-27E | 32.78070 | -104.24180 | Plugged (not released) | 8/1/1959 | 2/3/2021 |
| APACHE CORPORATION | EMPIRE ABO UNIT #183 | 30-015-22096 | Oil | K-01-185-27E | 32.77560 | -104.23580 | Plugged (not released) | 6/23/1977 | 4/27/2021 |
| APACHE CORPORATION | EMPIRE ABO UNIT #193 | 30-015-22857 | Oil | J-01-185-27E | 32.77590 | -104.23070 | Plugged (not released) | 9/29/1978 | 4/29/2021 |
| APACHE CORPORATION | EMPIRE ABO UNIT #194 | 30-015-22658 | Oil | J-01-185-27E | 32.77310 | -104.23050 | Plugged (not released) | 10/18/1978 | 4/19/2021 |
| APACHE CORPORATION | EMPIRE ABO UNIT #192 | 30-015-22560 | Oil | J-01-185-27E | 32.77450 | -104.22810 | Plugged (not released) | 5/30/1978 | 4/22/2021 |
| APACHE CORPORATION | EMPIRE ABO UNIT #223 | 30-015-22527 | Oil | F-06-185-28E | 32.77610 | -104.21730 | Plugged (not released) | 4/22/1978 | 7/23/2021 |
| APACHE CORPORATION | EMPIRE ABO UNIT #152 | 30-015-21825 | Oil | O-02-185-27E | 32.77000 | -104.24910 | Plugged (site released) | - | 12/27/2011 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #152B | 30-015-22569 | Oil | B-11-185-27E | 32.76760 | -104.24900 | Plugged (site released) | - | 10/2/2008 |
| APACHE CORPORATION | EMPIRE ABO UNIT #141A | 30-015-22051 | Oil | K-02-185-27E | 32.77290 | -104.24970 | Plugged (site released) | - | 12/21/2011 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #154 | 30-015-22669 | Oil | O-02-185-27E | 32.77130 | -104.24870 | Plugged (site released) | - | 6/30/2009 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #153B | 30-015-22838 | Oil | B-11-185-27E | 32.76860 | -104.24680 | Plugged (site released) | - | 12/22/2008 |
| APACHE CORPORATION | EMPIRE ABO UNIT #155 | 30-015-22885 | Oil | O-02-185-27E | 32.77200 | -104.24720 | Plugged (site released) | 3/30/1979 | 1/3/2012 |
| BP AMERICA PRODUCTION COMPANY | RIVERWOLF UNIT #004 | 30-015-00720 | Oil | B-02-185-27E | 32.78070 | -104.24610 | Plugged (site released) | - | 12/4/2008 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #015C | 30-015-00868 | Oil | B-11-185-27E | 32.76730 | -104.24700 | Plugged (site released) | - | 7/16/2004 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #015A | 30-015-00731 | Oil | O-02-185-27E | 32.77100 | -104.24700 | Plugged (site released) | - | 2/12/2009 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #153 | 30-015-22013 | Oil | O-02-185-27E | 32.76940 | -104.24530 | Plugged (site released) | - | 10/30/2008 |
| MCQUADRANGLE, LC | SOUTH RED LAKE GRAYBURG UNIT #040 | 30-015-00740 | Injection | G-02-185-27E | 32.77880 | -104.24790 | Plugged (site released) | - | 7/10/2002 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #151B | 30-015-22568 | Oil | B-11-185-27E | 32.76800 | -104.24530 | Plugged (site released) | - | 8/16/2006 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #156 | 30-015-22808 | Oil | O-02-185-27E | 32.77080 | -104.24490 | Plugged (site released) | - | 10/7/2009 |
| APACHE CORPORATION | EMPIRE ABO UNIT #151 | 30-015-21544 | Oil | O-02-185-27E | 32.77220 | -104.24490 | Plugged (site released) | - | 1/6/2012 |
| PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #039 | 30-015-00742 | Oil | H-02-185-27E | 32.77880 | -104.24400 | Plugged (site released) | - | - |
| PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #001 | 30-015-00726 | Oil | L-02-185-27E | 32.77470 | -104.24280 | Plugged (site released) | - | - |
| MACCK ENERGY CORP | STATE H #001 | 30-015-00745 | Oil | H-02-185-27E | 32.77790 | -104.24290 | Plugged (site released) | - | 3/7/2008 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #016A | 30-015-00722 | Oil | P-02-185-27E | 32.77100 | -104.24280 | Plugged (site released) | - | 2/23/2009 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #016C | 30-015-00869 | Oil | A-11-185-27E | 32.76820 | -104.24270 | Plugged (site released) | - | 1/24/2007 |
| PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #002 | 30-015-00662 | Oil | M-36-175-27E | 32.78430 | -104.23970 | Plugged (site released) | - | - |
| PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #001 | 30-015-00701 | Oil | D-01-185-27E | 32.78250 | -104.23970 | Plugged (site released) | - | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #171 | 30-015-22815 | Oil | M-01-185-27E | 32.77100 | -104.23950 | Plugged (site released) | 5/22/1979 | 10/24/2019 |
| RHONDA OPERATING CO | FEDERAL EA #001 | 30-015-00871 | Oil | D-12-185-27E | 32.76820 | -104.23950 | Plugged (site released) | - | 4/12/1994 |
| PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #002 | 30-015-20535 | Oil | D-12-185-27E | 32.76820 | -104.23910 | Plugged (site released) | - | - |
| PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #003 | 30-015-23115 | Oil | D-12-185-27E | 32.76820 | -104.23930 | Plugged (site released) | - | - |
| PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #001 | 30-015-00695 | Oil | L-01-185-27E | 32.77370 | -104.23960 | Plugged (site released) | - | - |
| PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #017 | 30-015-00704 | Oil | E-01-185-27E | 32.77790 | -104.23860 | Plugged (site released) | - | - |

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|-------------------------------|-----------------------|--------------|-----|--------------|----------|------------|--------------------------|------------|------------|
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #017A | 30-015-00703 | Oil | L-01-185-27E | 32.77450 | -104.23850 | Plugged (site released) | - | 3/19/2009 |
| PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #017 | 30-015-00712 | Oil | D-01-185-27E | 32.78160 | -104.23860 | Plugged (site released) | - | - |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #017B | 30-015-00705 | Oil | M-01-185-27E | 32.77180 | -104.23850 | Plugged (site released) | - | 7/21/2004 |
| APACHE CORPORATION | AAO FEDERAL #005 | 30-015-32959 | Oil | E-01-185-27E | 32.77880 | -104.23790 | Plugged (site released) | 11/4/2003 | 6/14/2017 |
| PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #008 | 30-015-25649 | Oil | L-12-185-27E | 32.75920 | -104.23750 | Plugged (site released) | - | - |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #181 | 30-015-21554 | Oil | K-01-185-27E | 32.77280 | -104.23590 | Plugged (site released) | - | 4/17/2003 |
| EASTLAND OIL CO | COMSTOCK FEDERAL #010 | 30-015-26017 | Oil | N-12-185-27E | 32.75730 | -104.23530 | Plugged (site released) | - | 1/23/2003 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #018D | 30-015-00713 | Oil | N-01-185-27E | 32.77180 | -104.23530 | Plugged (site released) | - | 9/27/2003 |
| APACHE CORPORATION | EMPIRE ABO UNIT #018A | 30-015-00706 | Oil | F-01-185-27E | 32.77700 | -104.23430 | Plugged (site released) | 4/24/1959 | 9/20/2019 |
| APACHE CORPORATION | EMPIRE ABO UNIT #018B | 30-015-00707 | Oil | K-01-185-27E | 32.77450 | -104.23420 | Plugged (site released) | 4/23/1959 | 6/7/2017 |
| APACHE CORPORATION | AAO FEDERAL #002 | 30-015-32308 | Oil | C-01-185-27E | 32.78210 | -104.23330 | Plugged (site released) | 8/20/2002 | 2/8/2018 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #018 | 30-015-01218 | Oil | N-36-175-27E | 32.78420 | -104.23330 | Plugged (site released) | - | 9/9/2009 |
| APACHE CORPORATION | EMPIRE ABO UNIT #182 | 30-015-21792 | Oil | K-01-185-27E | 32.77330 | -104.23290 | Plugged (site released) | 5/6/1976 | 4/14/2021 |
| APACHE CORPORATION | EMPIRE ABO UNIT #184 | 30-015-22559 | Oil | K-01-185-27E | 32.77530 | -104.23270 | Plugged (site released) | - | 7/18/2013 |
| APACHE CORPORATION | EMPIRE ABO UNIT #191 | 30-015-21552 | Oil | G-01-185-27E | 32.77640 | -104.23170 | Plugged (site released) | - | 7/23/2013 |
| ROJO GRANDE LLC | RAMAPO #007 | 30-015-31592 | Oil | N-36-175-27E | 32.78420 | -104.23110 | Plugged (site released) | 2/14/2001 | 12/21/2001 |
| PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #005 | 30-015-20388 | Oil | N-01-185-27E | 32.77170 | -104.23100 | Plugged (site released) | - | 1/1/1901 |
| PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #019 | 30-015-20394 | Oil | O-01-185-27E | 32.77160 | -104.23070 | Plugged (site released) | - | 1/1/1900 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #019 | 30-015-01251 | Oil | O-36-175-27E | 32.78510 | -104.23000 | Plugged (site released) | - | 9/9/2009 |
| ARCO PERMIAN | EMPIRE ABO UNIT #191 | 30-015-00698 | SWD | O-01-185-27E | 32.77080 | -104.23000 | Plugged (site released) | 10/7/1959 | 12/8/1989 |
| APACHE CORPORATION | EMPIRE ABO UNIT #019B | 30-015-00708 | Oil | B-01-185-27E | 32.78150 | -104.23000 | Plugged (site released) | - | 5/22/2013 |
| APACHE CORPORATION | EMPIRE ABO UNIT #019C | 30-015-00709 | Oil | G-01-185-27E | 32.77780 | -104.23000 | Plugged (site released) | - | 2/18/2013 |
| APACHE CORPORATION | EMPIRE ABO UNIT #191A | 30-015-21873 | Oil | J-01-185-27E | 32.77320 | -104.22830 | Plugged (site released) | 8/27/1976 | 5/19/2017 |
| APACHE CORPORATION | EMPIRE ABO UNIT #019Q | 30-015-00696 | Oil | J-01-185-27E | 32.77440 | -104.23000 | Plugged (site released) | - | 7/12/2013 |
| APACHE CORPORATION | EMPIRE ABO UNIT #202 | 30-015-21783 | Oil | H-01-185-27E | 32.77640 | -104.22780 | Plugged (site released) | 4/17/1976 | 6/9/2017 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #020 | 30-015-00677 | Oil | P-36-175-27E | 32.78410 | -104.22680 | Plugged (site released) | - | 9/9/2009 |
| APACHE CORPORATION | EMPIRE ABO UNIT #020D | 30-015-01215 | Oil | A-01-185-27E | 32.78140 | -104.22570 | Plugged (site released) | 11/7/1959 | 5/19/2017 |
| APACHE CORPORATION | EMPIRE ABO UNIT #020C | 30-015-00711 | Oil | H-01-185-27E | 32.77780 | -104.22570 | Plugged (site released) | - | 7/8/2013 |
| BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #020K | 30-015-00697 | Oil | I-01-185-27E | 32.77440 | -104.22570 | Plugged (site released) | - | 1/5/2003 |
| MARBOB ENERGY CORP | LP STATE #003 | 30-015-31087 | Oil | M-06-185-28E | 32.77160 | -104.22250 | Plugged (site released) | 6/19/2000 | 3/17/2008 |
| RUTH OIL CO, LLC | STATE M-AI #002 | 30-015-02627 | Oil | M-06-185-28E | 32.77150 | -104.22030 | Reclamation Fund Pending | 10/4/1960 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #161 | 30-015-22914 | Oil | I-02-185-27E | 32.77270 | -104.24260 | Temporary Abandonment | 6/21/1979 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #017 | 30-015-00676 | Oil | M-36-175-27E | 32.78430 | -104.23760 | Temporary Abandonment | 2/5/1960 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #213 | 30-015-23116 | Oil | E-06-185-28E | 32.77760 | -104.22320 | Temporary Abandonment | 3/10/1980 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #201 | 30-015-21553 | Oil | H-01-185-27E | 32.77630 | -104.22360 | Temporary Abandonment | 6/28/1975 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #212 | 30-015-22637 | Oil | E-06-185-28E | 32.77650 | -104.22330 | Temporary Abandonment | 12/4/1978 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #021D | 30-015-02622 | Oil | L-06-185-28E | 32.77500 | -104.22140 | Temporary Abandonment | 12/27/1959 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #211A | 30-015-23548 | Oil | L-06-185-28E | 32.77430 | -104.22030 | Temporary Abandonment | 2/11/1981 | - |

Attachment 7 Digital Data

Petrotek

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS
 Action 279780

COMMENTS

| | |
|---|--|
| Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201 | OGRID: 15694 |
| | Action Number: 279780 |
| | Action Type: [C-103] Sub. General Sundry (C-103Z) |

COMMENTS

| Created By | Comment | Comment Date |
|------------|---------------------------------------|--------------|
| cchavez | WDW-3 Fall Off Test 2023 Final Report | 11/2/2023 |

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

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 811 S. First St., Artesia, NM 88210
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 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 279780

CONDITIONS

| | |
|---|--|
| Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201 | OGRID: 15694 |
| | Action Number: 279780 |
| | Action Type: [C-103] Sub. General Sundry (C-103Z) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| cchavez | None | 11/2/2023 |