UICI-8-3

EPA FALL-OFF TEST REPORT (WDW-3)

2022



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

July 2022

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2022 MECHANICAL INTEGRITY AND RESERVOIR TESTING CLASS I NON-HAZARDOUS DEEPWELL OCD UIC Permit: UICI-008-3

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Report prepared by:

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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 May 17, 2022, 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 activities were supervised by Jeremiah Demuth (Petrotek) from June 14 through June 16, 2022.

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.



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 is approximately 175 feet with an average porosity of 10 percent. Consistent with the most recent test analysis previously submitted, these values were used for the analysis performed in this report.



6. PVT DATA OF THE FORMATION AND INJECTION FLUID

Fluid samples of connate brine from the injection interval were collected from WDW-1 (33,000 mg/L) and WDW-2 (20,000 mg/L) during recompletion as Class I UIC wells. WDW-1, 2 and 3 are completed in the same injection formation. The average density and total dissolved solids (TDS) of the fluids recovered from the two wells sampled 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 |
| NO₃-N (mg/L) | <10 | <10 | | <10 |
| SO ₄ (mg/L) | 2,200 | 2,000 | 1,908 | 2,036 |
| CaCO₃ (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 |
| pН | 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:

$$\mu_{w1} = AT^B \tag{B-72}$$

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

$$B = -1.12166 + 2.63951 * 10^{-2} * S - 6.79461 * 10^{-4} * S^{2} - 5.47119 * 10^{-5} * S^{3}$$

$$+1.55586*10^{-6}*S^{4}$$
 (B-74)

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

Where,

μw1 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
μw 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).

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

Where,

a = 0.8535 b = 1.075 c = 2.303 E06 Φ = 0.10

Based on this equation, a value of 8.20E-6 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 °F, a bottom hole pressure of 3,404.7 psi, and a solids weight of 2.65%. Using Figure L-31 to first estimate freshwater compressibility, a value of 2.86E-06 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 2.70E-06 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 (ct) is approximately 10.9 E-06 psi⁻¹.

The specific gravity of the test fluid, based on the static gradient survey performed at the end of the test this year, was 1.007 (gradient of 0.436 psi/ft) with a measured temperature during injection of 105.4 °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 E-06 psi⁻¹.

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



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

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

TABLE 2
MAY AND JUNE INJECTION DATA

| Date | Injection Pressure (psi) | Injection Rate (gpm) | Annulus Pressure (psi) |
|-----------|--------------------------------|----------------------------|------------------------------|
| 5/1/2022 | 947.1 | 114.2 | 217.3 |
| 5/2/2022 | 916.1 | 110.4 | 191.3 |
| 5/3/2022 | 930.0 | 103.4 | 172.0 |
| 5/4/2022 | 791.5 | 105.1 | 103.5 |
| 5/5/2022 | 764.1 | 69.0 | 112.4 |
| 5/6/2022 | 934.8 | 68.3 | 383.8 |
| 5/7/2022 | 994.5 | 105.4 | 447.6 |
| 5/8/2022 | 965.4 | 117.6 | 462.0 |
| 5/9/2022 | 947.7 | 111.1 | 474.6 |
| 5/10/2022 | 880.0 | 107.2 | 436.2 |
| 5/11/2022 | 980.8 | 92.3 | 491.4 |
| 5/12/2022 | 1048.9 | 115.2 | 450.4 |
| 5/13/2022 | 984.6 | 127.0 | 179.0 |
| 5/14/2022 | 944.8 | 113.7 | 105.3 |
| 5/15/2022 | 969.8 | 105.7 | 35.0 |
| 5/16/2022 | 1039.8 | 110.6 | 45.8 |
| 5/17/2022 | 1078.1 | 123.8 | 31.9 |
| 5/18/2022 | 1076.7 | 130.6 | 117.3 |
| 5/19/2022 | 1061.7 | 129.8 | 210.0 |
| 5/20/2022 | 1035.6 | 128.7 | 201.9 |
| 5/21/2022 | 1025.9 | 125.3 | 259.7 |
| 5/22/2022 | 1013.4 | 123.8 | 271.6 |
| 5/23/2022 | 1006.2 | 119.5 | 287.1 |
| 5/24/2022 | 1026.2 | 118.6 | 285.9 |
| 5/25/2022 | 1063.5 | 128.1 | 298.8 |
| 5/26/2022 | 1132.4 | 144.0 | 320.2 |
| 5/27/2022 | 1079.6 | 132.0 | 304.0 |
| 5/28/2022 | 1056.9 | 126.5 | 296.6 |
| 5/29/2022 | 1026.3 | 118.7 | 286.0 |
| 5/30/2022 | 940.4 | 93.1 | 251.4 |
| 5/31/2022 | 929.9 | 89.5 | 246.6 |
| 6/1/2022 | 930.2 | 86.5 | 242.4 |
| 6/2/2022 | 988.5 | 100.3 | 236.2 |

| Date | Injection Pressure (psi) | Injection Rate (gpm) | Annulus Pressure (psi) |
|-----------|--------------------------------|----------------------------|------------------------------|
| 6/3/2022 | 1039.5 | 112.6 | 295.3 |
| 6/4/2022 | 1022.6 | 123.1 | 308.7 |
| 6/5/2022 | 1058.3 | 119.0 | 326.8 |
| 6/6/2022 | 978.0 | 125.0 | 299.9 |
| 6/7/2022 | 854.5 | 108.7 | 231.1 |
| 6/8/2022 | 964.5 | 81.9 | 285.8 |
| 6/9/2022 | 998.5 | 104.6 | 341.6 |
| 6/10/2022 | 955.3 | 112.0 | 335.1 |
| 6/11/2022 | 966.2 | 104.6 | 339.8 |
| 6/12/2022 | 1028.0 | 106.0 | 390.2 |
| 6/13/2022 | 1045.1 | 118.9 | 429.3 |

8. CUMULATIVE INJECTION INTO THE FORMATION FROM TEST WELL

At the time of shut-in for testing the cumulative volume of waste injected into this well since operations began, based on OCD records, is 22,543,344 barrels (946,820,456 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 5/28/2021. 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 includes a listing of 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 plugged and abandoned 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 shows 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 1-mile AOR of WDW-3. 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

| Farmatia a | | DW-1 693 ft AMSL) | | DW-2 623 ft AMSL) | | DW-3 325 ft AMSL) |
|---|----------------|-----------------------------|----------------|-----------------------------|----------------|----------------------|
| Formation | 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 were injected into at a constant rate during the duration of testing, are at a significant distance from the test well, are completed in a relatively high permeability system, and are not considered to have had an unacceptable impact on the testing performed on WDW-3.

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, and 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 eastsoutheast, 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 April 2022 indicated average injection rates of approximately 16 gpm for the AAO Federal SWD #1, 77 gpm for the Chalk Bluff Federal SWD #001 and 313 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 - Development of a useful test was not prevented by these offset injection wells, although late-time test 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 June 14 through 16, 2022.
- b. **Time of the injection period -** Constant-rate 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 as test 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 4,133.7 psia (at 7,572 feet BGL) and the injection rate was 121.6 gpm (4,168.2 bpd) with a measured bottom hole temperature of 102.3 °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 3,978.7 psia and the final bottom hole temperature was 110.7 °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 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 5,356 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 6 hours after shut-in. This value was derived from the diagnostic plot and semi-log plot.
- c. **Slope(s) determined from the semi-log plot -** The slope for the likely radial period, as determined from the semi-log plot, was 4.69 psi/cycle.
- d. **Transmissibility** (kh/μ) The transmissibility was determined to be 144,601 md-ft/cp.
- e. Permeability (k) The permeability was determined to be 463 md.
- f. **Skin Factor (s) -** The skin factor was determined to be 20.6 units.
- g. Pressure drop due to skin (ΔP_{skin}) The pressure drop due to skin was



determined to be 84.0 psi

- h. Flow efficiency The flow efficiency was determined to be 0.31.
- i. Flow capacity (kh) The flow capacity (permeability-thickness) was determined to be 80,977 md-ft.
- j. P_{1hr} The extrapolated 1-hr pressure was determined to be 4,018.7 psi.

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, ct | 10.90E-06 | 1/psi |
| Formation Volume Factor, B | 1.00 | bbl/stb |
| Wellbore Radius, r _w | 0.3246 | feet |
| Final Well Flowing Pressure, pwf | 4,133.7 | psia |
| Final Injection Rate, q _{final} | 4,168.2 | bwpd |
| Final injection Rate, qfinal | 121.6 | (gpm) |
| Horner Straight Line Slope, m | 4.68703 | 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 315,488.7 hours of injection at 47.0 gpm. This value was used in conjunction with the injection data collected from 6/22/2020 through 6/14/2022. The total waste volume injected up to the time of shut-in utilized for calculations was 992,151,059 gallons (23,622,644 bbls).

To determine the mobility-thickness (transmissibility), the following equation was utilized. The resulting transmissibility was 144,601 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

g 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

$$\frac{kh}{\mu} = Transmissibility = 162.6 \frac{4,168.2 * 1.0}{4.68703} = 144,601 \frac{md - ft}{cp}$$

The transmissibility was then used to determine the permeability thickness. The resulting permeability-thickness was 80,977 md-ft.

$$kh = \left(\frac{kh}{\mu}\right)\mu = 144,601\left(\frac{md - ft}{cp}\right)0.56 \ cp = 80,977 \ md - ft$$

The permeability-thickness was then used to determine the permeability of the reservoir. The resulting permeability was 463 md.

$$k = \frac{kh}{h} = \frac{80,977 \ md - ft}{175 \ ft} = 463 \ md$$

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 1,553 feet.

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

Where,

rwaste 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

$$r_{waste} = \sqrt{\frac{0.13368 * (992,151,059)}{\pi * 175 * 0.10}} = 1,553 feet$$

Based on this radius, the time for a pressure transient to travel through this fluid can be calculated. The resulting time was 3.02 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 t_{waste} is the radius of the waste front, in feet t_{waste} is the total compressibility, in psi-1 k is the permeability, in md 948 is a conversion constant

$$t_{waste} = 948 \frac{0.10 * 0.56 * 10.90E - 06 * (1,553)^{2}}{462.7} = 3.02 \ hours$$

Based on this result, and the time it took for the transition to radial flow to start (~ 5 to 10 hours), it is known that the pressure transient was traveling through reservoir fluid during the middle-time flow period used in analysis, indicating that the appropriate viscosity was used for the evaluation.

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 20.6 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

Pwf 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

rw is radius of the wellbore in feet

1.151 and 3.23 are constants

$$s = 1.151 \left(\frac{4,133.7 - 4,018.7}{4.68703} - log \left(\frac{462.7}{0.10 * 0.56 * 10.90E - 06 * 0.3246^2} \right) + 3.23 \right) = 20.6$$

The change in pressure, due to skin, in the wellbore can be calculated using the



following equation. The result of this calculation was 84.0 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

$$\Delta P_{skin} = 0.869 * 4.68703 * 20.6 = 84.0 \ psi$$

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 0.31.

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

Where,

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

$$FE = \frac{4,133.7 - 84.0 - 4,011.6}{4.133.7 - 4.011.6} = 0.31$$

The test radius of investigation (r_{inv}) can be determined using the following equation. The result of this calculation was 5,356 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



$$r_{inv} = 0.029 \sqrt{\frac{462.7 * 45}{0.1 * 0.56 * 10.90E - 06}} = 5,356 feet$$

Based on examination of the semi-log diagnostic plot provided as Figure 10, the test appears to start transitioning toward a radial flow period approximately 5 to 10 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 somewhat drawn-out transition to what is likely radial flow is complicated by a limited entry wherein the test behavior is consistent with approximately 77 feet of the completion dominating flow at the wellbore prior to more complete communication with the full injection interval thickness occurring in the reservoir. 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 and/or offset injection interference may be starting to influence the test. However, the substantial permeability-thickness of this injection zone yields 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 shows 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) |
|--------|-------------------------|----------------------|--------------------------------------|-----------------|--------------|
| 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 650 psi to begin the integrity 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 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 19.1 psi. Since a change of 10% (65.2 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 | 652.1 | 644.0 | 638.0 | 635.2 | 633.9 | 633.4 | 633.0 |



FIGURES



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)

17.5" Hole

Conductor Casing (0' - 400'): 13-3/8", 54.5 lb/ft, J-55 STC Steel, cemented to surface with 425 sacks of cement.

12.25" Hole

Surface Casing (0' - 2,600'): 9-5/8", 36 lb/ft, J-55 STC Steel, cemented to surface with 1,025 sacks of cement.

8-3/4" Hole

Protection Casing (0' - 9,450'): 7", 26 lb/ft & 29 lb/ft, N-80 & P110 Steel. Top of cement at 900', cement with 1,350 sacks of cement.

Annulus Fluid: 8.7 lb/gal brine water mixed with UniChem Techni-Hib 370 corrosion inhibitor

DV Tool (5,785')

Injection Tubing (0' - 7,568'): 4-1/2", 11.6 lb/ft, J-55 LTC Steel, no nipples, Injection Tubing - 10/24/06.

Packer (7,575'): 7" x 2-7/8" Arrow X-1 Packer, no nipples, 37K Tension.

Perforations (7,660' - 8,450'): 2 JSPF, 60°, 0.5" Old Perforations Open: 7,676' - 7,698'

Perforations (8,540' - 8,620'): 2 JSPF, 60°, 0.5"

Cement (9,022')

4-1/2" Liner (9,051' - 10,119')

CIPB (9,800'): 35' of cement.

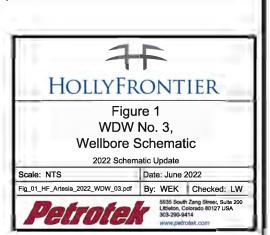
☐ Existing Perforations (9,861' - 9,967')

Top of Fill:

8,604' (Tagged 8/2021)

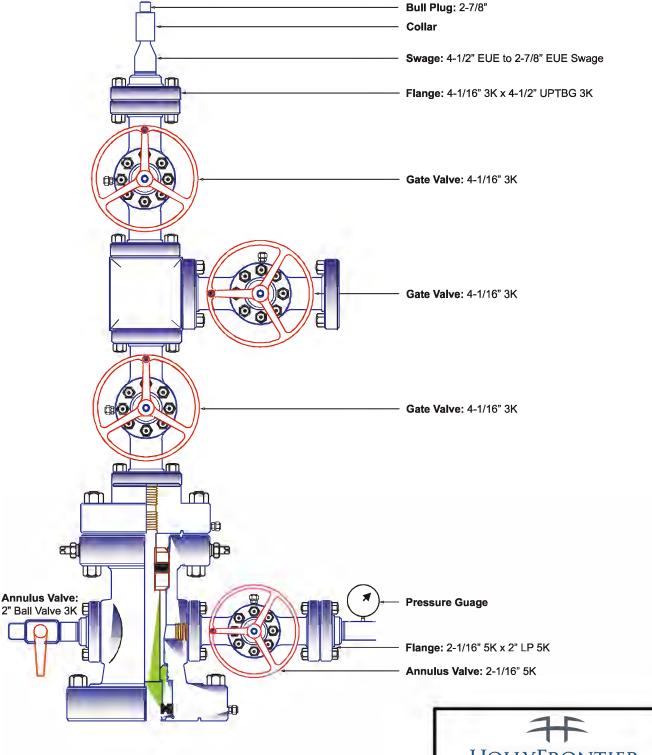
PBTD: 9,022' TD: 10,119'

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



NOT TO SCALE Released to Imaging: 10/19/2022 4:47:48 PM 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

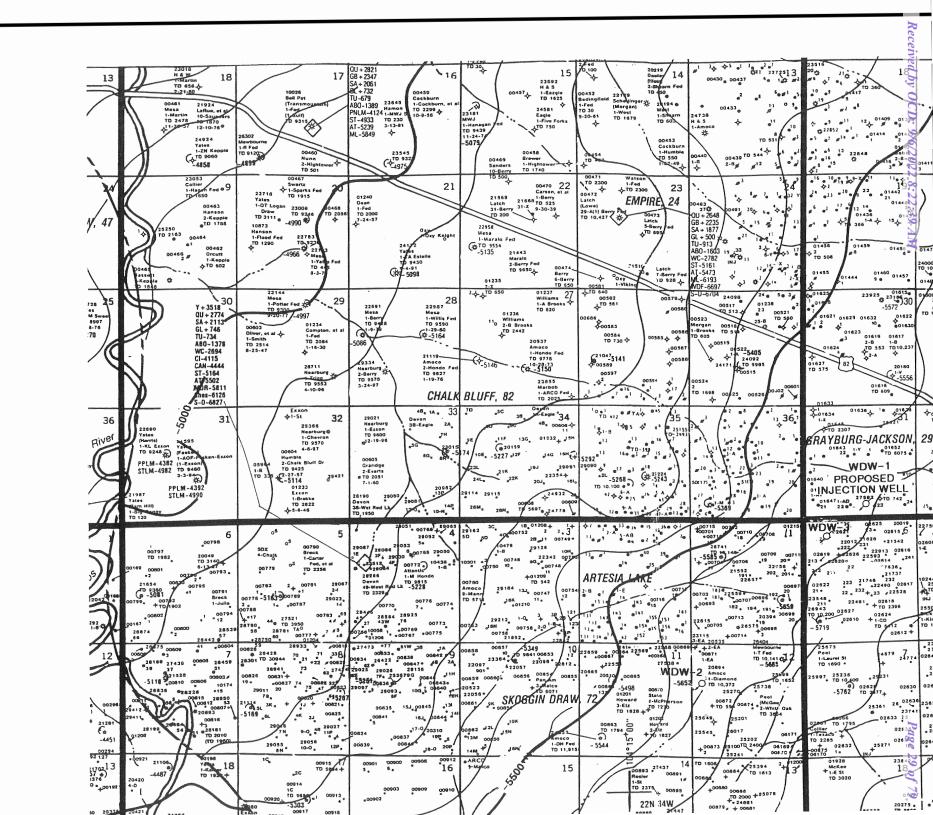
2022 FOT/MIT Report

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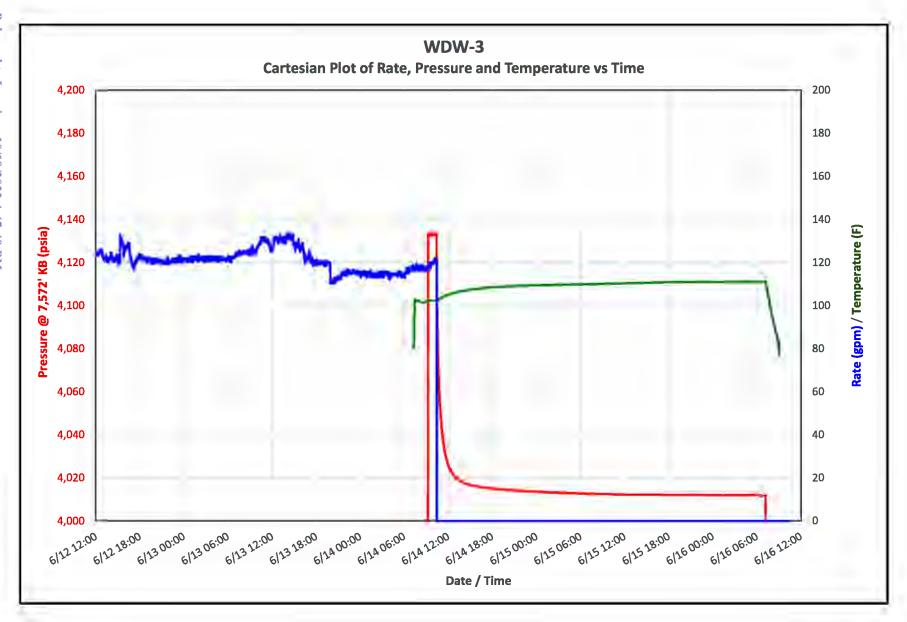




Figure 6
Cartesian Plot of Rate, Pressure and Temperature vs Time
2022 Well Testing



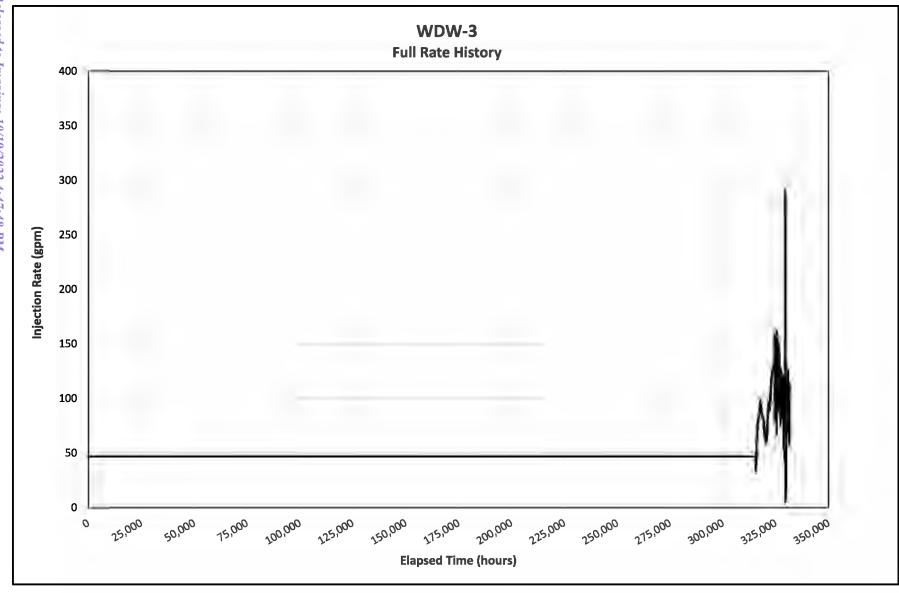




Figure 7
Full Rate History
2022 Well Testing



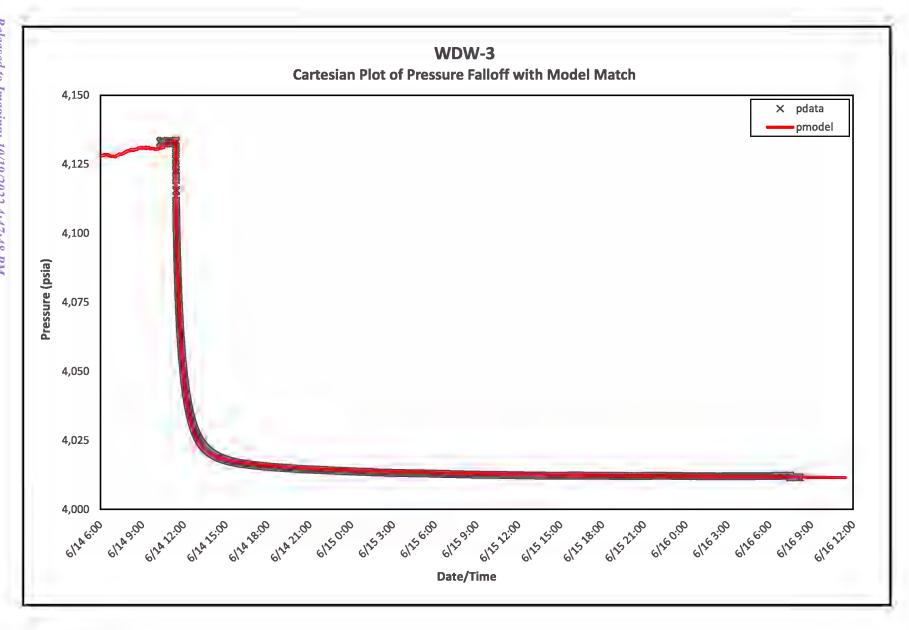




Figure 8
Cartesian Plot of Pressure Falloff with Model Match
2022 Well Testing



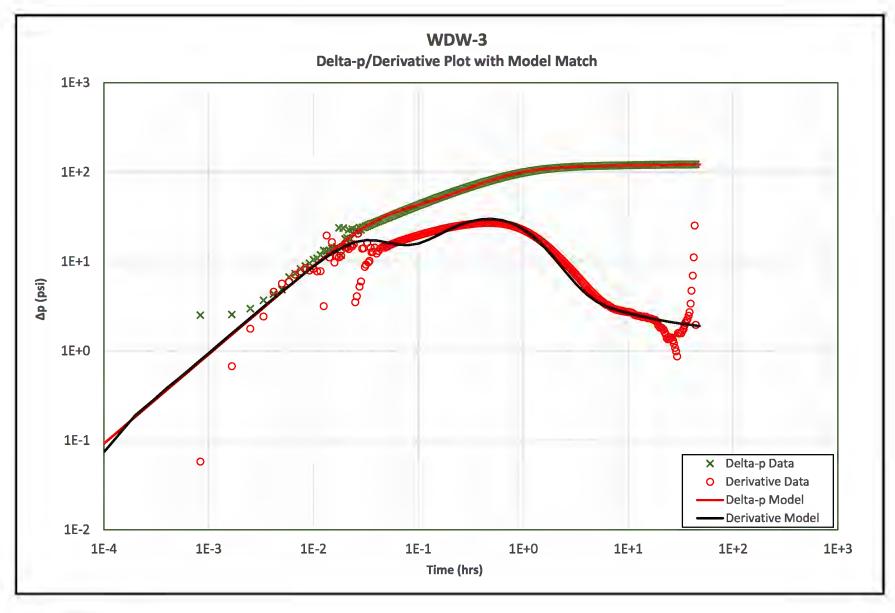




Figure 9
Delta-p/Derivative Plot with Model Match
2022 Well Testing



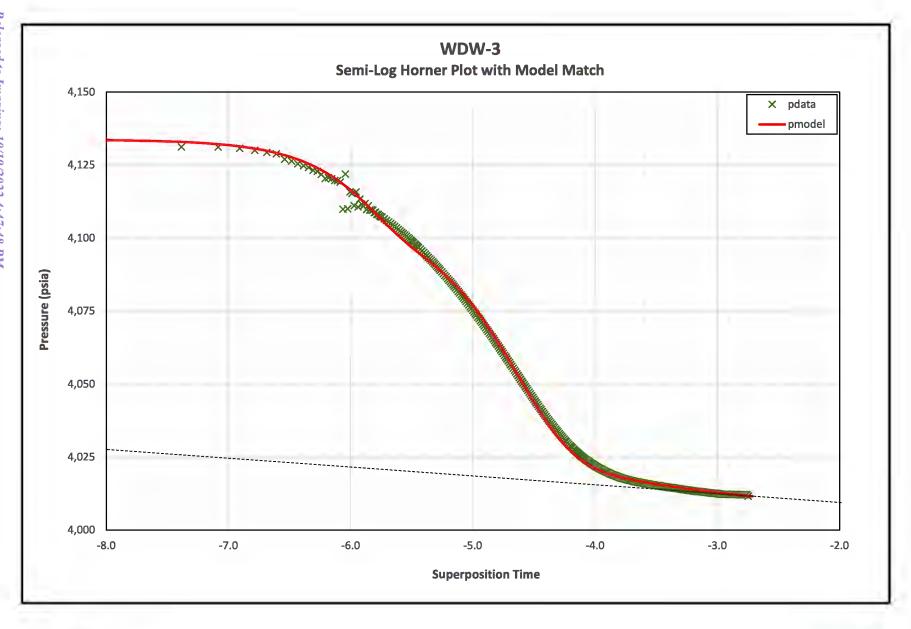




Figure 10
Semi-Log Horner Plot with Model Match
2022 Well Testing



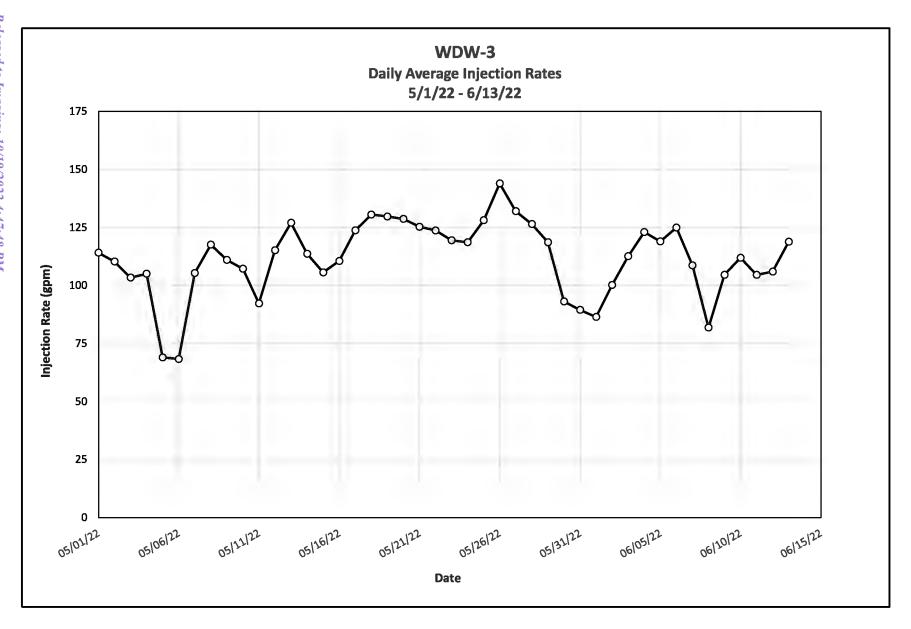




Figure 11
Daily Average Injection Rates
2022 Well Testing



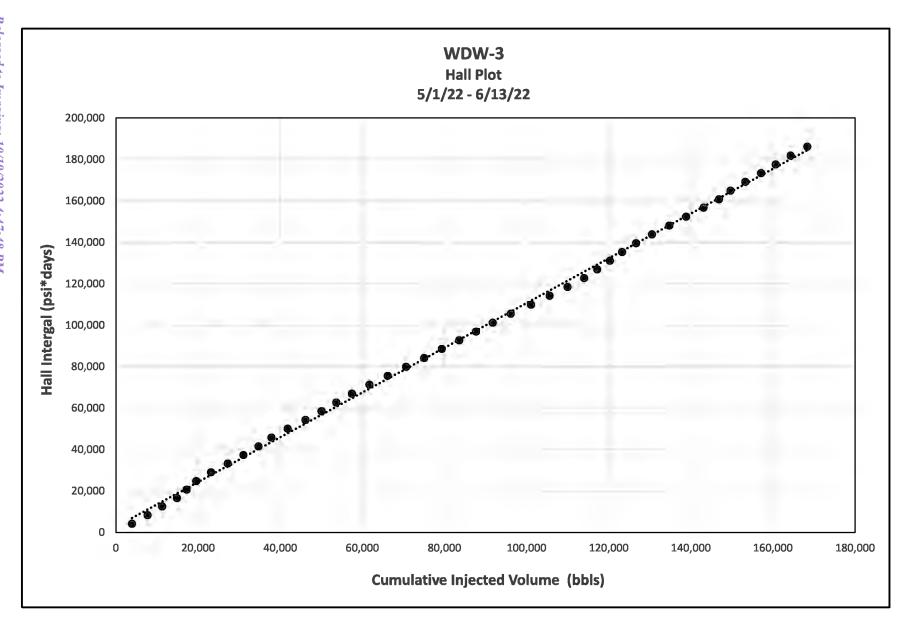
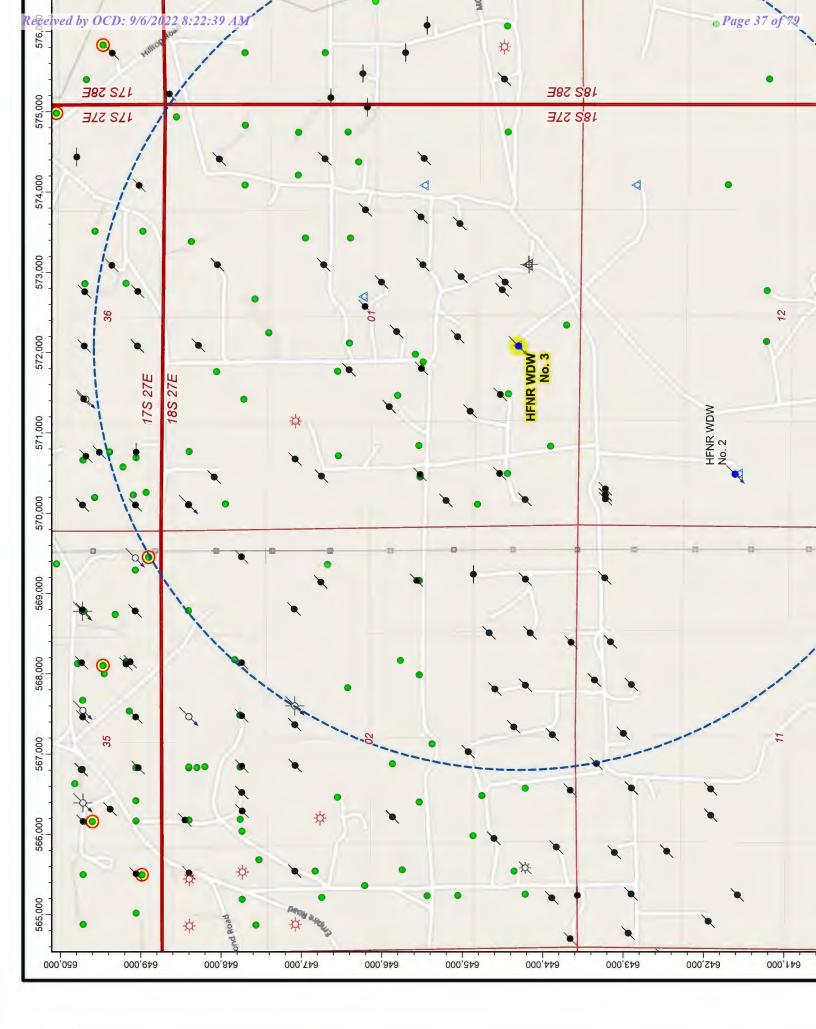




Figure 12 Hall Plot 2022 Well Testing





ATTACHMENTS



Attachment 1 OCD Test Notification



| ceined by Opp Po Appropriate Sisting 9 A. Office | State of 14CVV 1410 | | Form C-103 | | |
|---|--|---|--|--|--|
| <u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283 | Energy, Minerals and Nati | | Revised July 18, 2013 WELL API NO. 30-015-26575 | | |
| 811 S. First St., Artesia, NM 88210 | OIL CONSERVATION | | 5. Indicate Type of Lease | | |
| <u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 | 1220 South St. Fra | ncis Dr. | STATE FEE | | |
| District IV – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505 | 7505 | 6. State Oil & Gas Lease No. B-2071-28 | | | |
| SUNDRY NOTION (DO NOT USE THIS FORM FOR PROPOSE DIFFERENT RESERVOIR, USE "APPLIC.") | | UG BACK TO A | 7. Lease Name or Unit Agreement Name GAINES WDW-3 | | |
| PROPOSALS.) | | | 8. Well Number: WDW-3 | | |
| Type of Well: Oil Well Name of Operator HF SINCLAIR NAVAJO REFINER | Gas Well | ION WELL | 9. OGRID Number: 15694 | | |
| 3. Address of Operator | | | 10. Pool name or Wildcat | | |
| P.O. BOX 159, ARTESIA, NM 882 | 11-0159 | | 78890 | | |
| 4. Well Location | -4 C 41 - COLUMN 1' 1 205 | 20 C 4 C 41 - W | TOTAL: | | |
| Section: 1 Township: | tet from the SOUTH line and 225 18S Range: 27E NM | _ | | | |
| Section. 1 Township: | 11. Elevation (Show whether DR | | ounty: EDDY | | |
| | 3,609' GL | ,, 212, 021, 010 | | | |
| | | | | | |
| 12. Check A | ppropriate Box to Indicate N | lature of Notice | , Report or Other Data | | |
| NOTICE OF INT | TENTION TO: | SUE | BSEQUENT REPORT OF: | | |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WOR | | | |
| TEMPORARILY ABANDON | CHANGE PLANS | COMMENCE DR | RILLING OPNS. P AND A | | |
| PULL OR ALTER CASING | MULTIPLE COMPL | CASING/CEMEN | 1T JOB □ | | |
| DOWNHOLE COMMINGLE | | | | | |
| CLOSED-LOOP SYSTEM | TECT / MIT | OTUED. | | | |
| OTHER: PRESSURE FALL OFF | | OTHER: | nd give pertinent dates, including estimated da | | |
| | k). SEE RULE 19.15.7.14 NMA | | ompletions: Attach wellbore diagram of | | |
| 30 hours prior to shut-in of V will not exceed 1,400 psig. P steady flow. Samples of the June 27th: Monday: Day 2, Conting June 28th: Tuesday: Day 3 While stops every 1,000 feet. Colle and collect Fall Off Data for the Downhole Memory Gaug June 29th: Wednesday: Day 4: W June 30th: Thursday: Day 5: After minute gradient stops every well, or a second run with sin minutes prior to rigging down | WDW-3 for Fall Off Testing. Targer Plant personnel will record rate, voinjectate will be collected approximate constant injection rate into all injection continues, will run dual ct pressure data at test depth for at a minimum of 30 hours. WDW-1 ges are retrieved. DW-3 is shut in and fall off data is the minimum of 30 hours of data 1,000 feet. Note the top of fill will naker bars will be made after the tom. Rig down wireline and return was simple to the return with the state of the | et rate for WDW-3 blume and pressure mately every 10 ho four wells. downhole memory t least 1 hour while, WDW-2 and WD's being collected was collection, the gard be tagged either wools are removed (Twell to service. | rell as the other three (3) offset wells for at least is approximately 160 gpm. Wellhead pressure during the constant-rate injection to ensure ours and analyzed for pH and specific gravity. To gauges to test depth making flowing gradient injecting at a constant rate. Shut in WDW-3 W-4 will continue a constant injection rate unto with the Downhole Memory Gauges. Togges will be removed from the well making 5 with the gauges prior to pulling them from the CBD). Conduct MIT for a minimum of 30 | | |
| pud Date: | Rig Release Da | ate: | | | |
| hereby certify that the information a | 2021 | est of my knowled | | | |
| ype or print name: LEWIS R. DADI | | | | | |
| or State Use Only | | | | | |
| PPROVED BY: | TITLE | | DATE | | |
| PPROVED BY: conditions of Approval (if any): ased to Imaging: 10/19/2022 4:47 | :48 PM | | | | |

Attachment 2 Annulus Pressure Gauge Certification



INSTRUMENTS INC.

Received by OCD: 9/6/2022 8:22:39 AM

9829 E. Easter Ave. • Centennial, CO 80112 303.794.8833 • Fax 303.730.1220 Toll Free 1.800.327.7257 www.jmcinstruments.com

CERTIFIED CALIBRATION

| CITCTOMED : | OETRATER | ODDED MO | |
|-------------|--------------|-----------|--|
| CUSTOMER | PETROTEK | ORDER NO. | |
| | / | | |
| | / | | |

ITEM Digital Gauge RANGE 0-5000PSIG ITEM NO. 5284

| TRUE VALUE | INDICA | TED VALUE |
|------------|---------------------|---------------------|
| PSIG | INCREASING READINGS | DECREASING READINGS |
| 0.00 | 0 | 0 |
| 500.00 | 499.4 | 499.5 |
| 1000.00 | 998.9 | 999.1 |
| 1500.00 | 14 58.5 | 1498.8 |
| 2000.00 | 1993.2 | 1998.4 |
| 2500.00 | 2497.7 | 2498.0 |
| 3000.00 | 2997.4 | 2997.6 |
| 3500.00 | 3497.0 | 3497.2 |
| 4000.00 | 3996.7 | 39965 |
| 4500.00 | 4496-5 | 4495.8 |
| 5000.00 | 4994.9 | 4994.9 |

Tested On:

Deadweight Tester S/N# 1GA4474

Traceable to National Institute of Standards and Technology certificate # 17-043

Tested By: Brian McLain Date 22 November 2021

Remarks:

Keleased to Imaging: 10/19/2022 4:47:48 PM

| Crystal/AMETEK | XPZ | 2i | SN 901241 | |
|------------------------------------|-------|-----|---------------------------|--|
| Crystal /AMETEK Accuracy is +/- | .25 | 9 | % of Full Scale or Better | |
| Test Conditions | 65°F; | 617 | mmHg Atm. Pressure | |

Attachment 3 Downhole Pressure Gauge Certifications





"The Next Generation of Down Hole Tools"

Calibration Date:28-May-21Calibration System:CALIBRATION03Max Pressure Error:0.010% F.S.Batch Number:20210104.143132

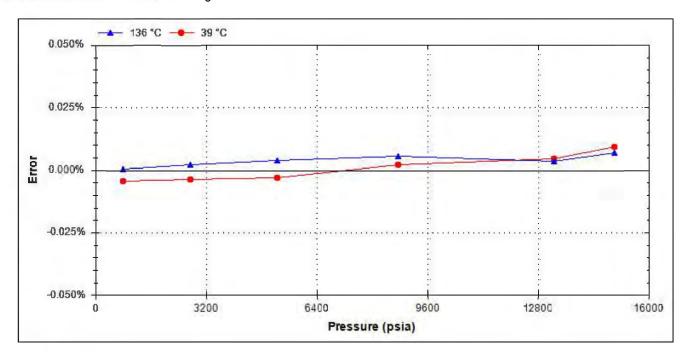
 Max Temperature Error:
 0.119 °C

 Part Number:
 101696

 Serial Number:
 224798

| 1.25 OD Quartz DXB 2 Assembly | | | | | | | | | | |
|-------------------------------|---------|-----------------|-----|--|--|--|--|--|--|--|
| Max P | ressure | Max Temperature | | | | | | | | |
| psi | kPa | ٩F | °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"

CALIBRATION03

20210104.143132

Calibration Date:28-May-21Calibration System:Max Pressure Error:0.010% F.S.Batch Number:

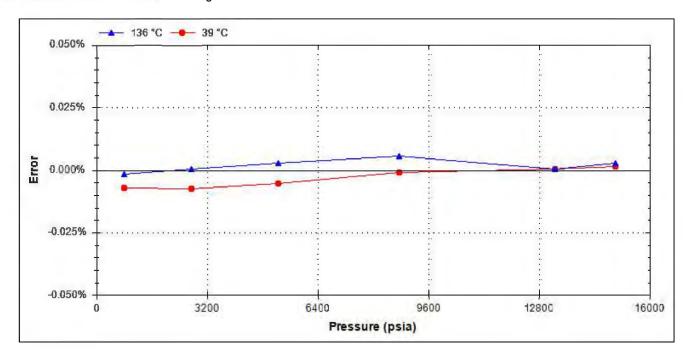
 Max Temperature Error:
 0.110 °C

 Part Number:
 101696

 Serial Number:
 224831

| 4 | 1.25 OD Quartz DXB 2 Assembly | | | | | | | | | | |
|--------|-------------------------------|-----------------|-----|--|--|--|--|--|--|--|--|
| Max Pi | essure | Max Temperature | | | | | | | | | |
| psi | kPa | ٩F | ° | | | | | | | | |
| 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

Attachment 4 FESCO Injection Falloff Test Report





1000 Fesco Ave. - Alice, Texas 78332



FLOWING GRADIENT SURVEY

Company: Petrotek Corporation

Well: Navajo Refining Waste Disposal Well No. 3

Field: Davonia

Formation: Unavailable

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) Test Date: 06/14/2022 Location:

Status:

Eddy County, NM

Injecting

Gauge Type: Electronic Gauge SN: SP-224831

Gauge Range: 10000 psi Gauge OD: 1.2500"

| | Depth Pressure | | | | Pressure | | | |
|------|----------------|-------|------|--------|----------|----------|----------|----------|
| | | Delta | | | Gauge | Delta | Pressure | |
| MD | TVD | Depth | WHP | BHT | Pressure | Pressure | Gradient | |
| ft | ft | ft | psig | °F | psig | psi | psi / ft | Comments |
| 0 | 0 | 0 | 1020 | 102.81 | 1018.56 | 0.00 | 0.0000 | |
| 1000 | 1000 | 1000 | | 102.46 | 1424.55 | 405.99 | 0.4060 | |
| 2000 | 2000 | 1000 | | 102.06 | 1831.35 | 406.80 | 0.4068 | |
| 3000 | 3000 | 1000 | | 101.74 | 2244.41 | 413.06 | 0.4131 | |
| 4000 | 4000 | 1000 | | 101.55 | 2652.81 | 408.40 | 0.4084 | |
| 5000 | 5000 | 1000 | | 101.53 | 3067.44 | 414.63 | 0.4146 | |
| 6000 | 6000 | 1000 | | 101.71 | 3480.82 | 413.38 | 0.4134 | |
| 7000 | 7000 | 1000 | | 102.10 | 3894.81 | 413.99 | 0.4140 | |
| 7572 | 7572 | 572 | 1020 | 102.37 | 4132.80 | 237.99 | 0.4161 | |
| | | | | | | | | |

BHT at Test Depth: °F Oil Level: Previous BHP: U/A 102.37 Injecting Extrapolated BHP at Datum: 4369.14 psig Water Level: Injecting BHP Change: U/A BHP Gradient at Datum: 0.4161 psi/ft Csg Press: 760 psig

Remarks: RIH with electronic gauges making injecting gradient stops to 7572 ft. Injected water into well for 1 hr. SI

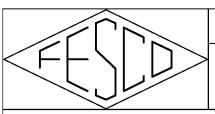
well for 44.1 hr BHP Falloff Test. POOH making static gradient stops. RDMO.

Certified: FESCO, Ltd. - Midland, TX

> By: Michael Carnes

District Manager - (432) 332-3211

Job No.: J202206161401.001A



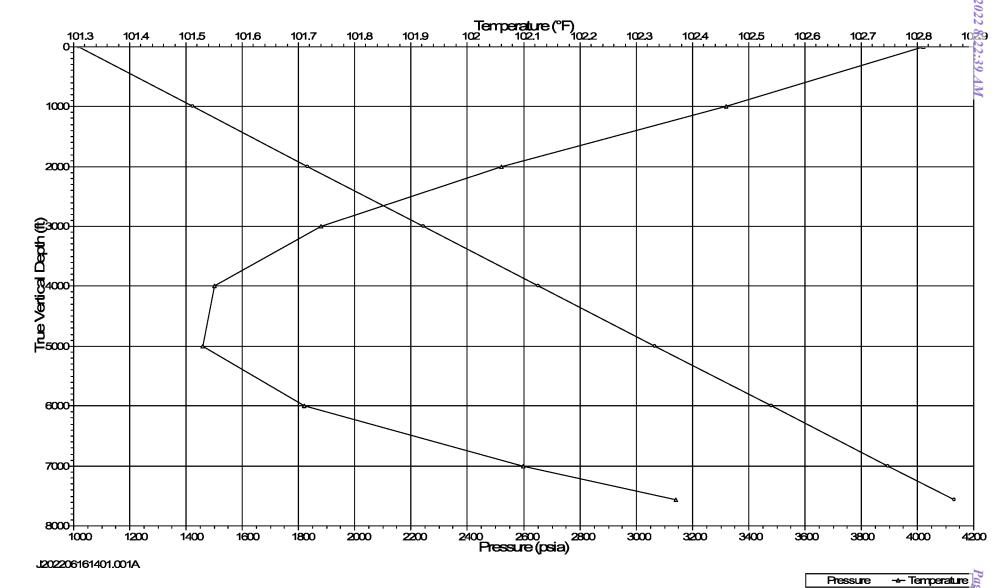
Navajo Refining Waste Disposal Well No. 3 Wal:

Fieldt Davonia

Test Date: 06/14/2022

Gauge Type: Electronic Gauge Range: 10000 psi Gauge SNt SP-224831

Howing Gradient Plot





1000 Fesco Ave. - Alice, Texas 78332



STATIC GRADIENT SURVEY

Company: Petrotek Corporation

Well: Navajo Refining Waste Disposal Well No. 3

Field: Davonia

Formation: Unavailable

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

8140 ft (MD) Datum:

Location: Eddy County, NM Status: SI for 44.1 hrs

06/16/2022

Gauge Type: Gauge SN:

Electronic SP-224831

Gauge Range:

Test Date:

10000 psi

Gauge OD:

1.2500"

| | Depth | | | | Pressure | | | | | |
|------|-------|-------|------|--------|----------|----------|----------|-----------|--------------------------|--|
| | | Delta | | | Gauge | Delta | Pressure | | | |
| MD | TVD | Depth | WHP | BHT | Pressure | Pressure | Gradient | | | |
| ft | ft | ft | psia | ۰F | psia | psi | psi / ft | | Comments | |
| 0 | 0 | 0 | 740 | 77.14 | 740.41 | 0.00 | 0.0000 | Water lev | el at surface. | |
| 1000 | 1000 | 1000 | | 83.74 | 1172.07 | 431.66 | 0.4317 | | | |
| 2000 | 2000 | 1000 | | 87.43 | 1603.43 | 431.36 | 0.4314 | | | |
| 3000 | 3000 | 1000 | | 91.23 | 2035.01 | 431.58 | 0.4316 | | | |
| 4000 | 4000 | 1000 | | 94.61 | 2467.09 | 432.08 | 0.4321 | | | |
| 5000 | 5000 | 1000 | | 98.66 | 2899.44 | 432.35 | 0.4323 | | | |
| 6000 | 6000 | 1000 | | 103.40 | 3331.69 | 432.25 | 0.4323 | | | |
| 7000 | 7000 | 1000 | | 108.00 | 3763.79 | 432.10 | 0.4321 | | | |
| 7572 | 7572 | 572 | 740 | 111.18 | 4011.62 | 247.83 | 0.4333 | POOH aft | er 44.1-hr Falloff Test. | |
| | | | | | | | | | | |

BHT at Test Depth: Oil Level: Previous BHP: U/A 111.18 None Extrapolated BHP at Datum; 4257.73 psia Water Level: Surface BHP Change: U/A BHP Gradient at Datum: 0.4333 psi/ft Csg Press: 760 psig

Remarks: RIH with electronic gauges making injecting gradient stops to 7572 ft. Injected water into well for 1 hr. SI

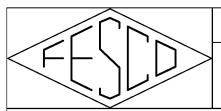
well for 44.1 hr BHP Falloff Test. POOH making static gradient stops. RDMO.

Certified: FESCO, Ltd. - Midland, TX

> By: Michael Carnes

District Manager - (432) 332-3211

Job No.: J202206161401.001A



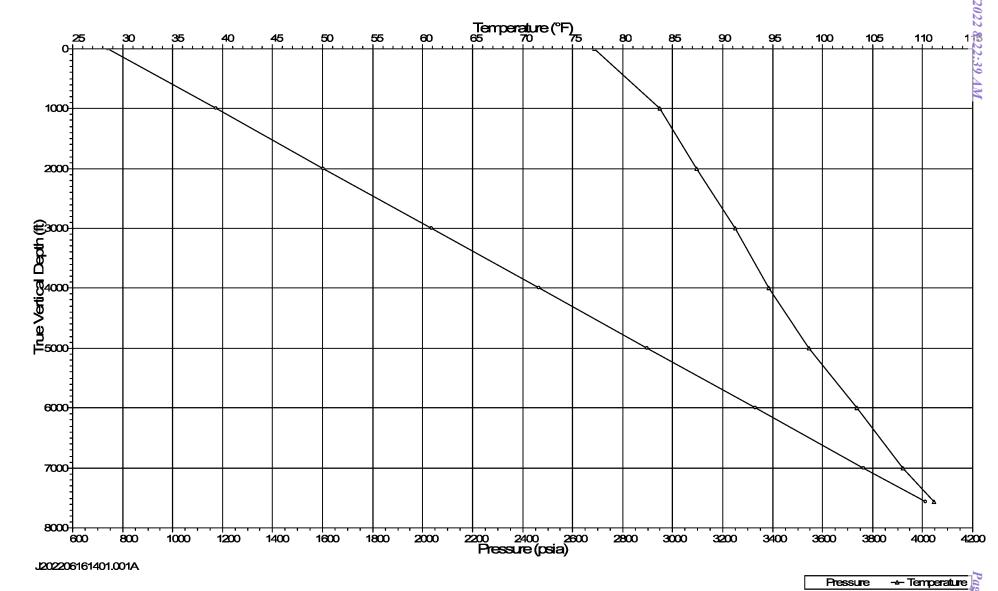
Well: Navajo Refining Waste Disposal Well No. 3

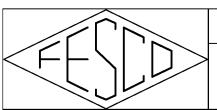
Field Davonia

Test Date: 06/16/2022

Gauge Type: Electronic
Gauge Range: 10000 psi
Gauge SN: SP-224831

Static Gradient Plot



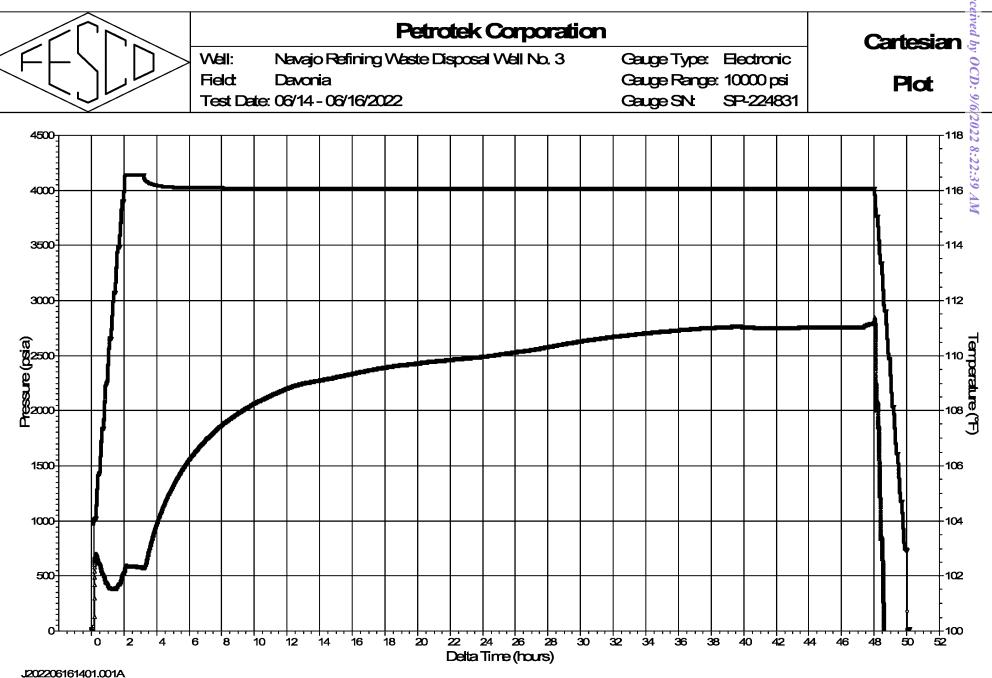


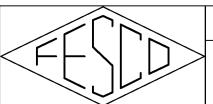
Navajo Refining Waste Disposal Well No. 3 Well:

Fieldt Davonia

Test Date: 06/14 - 06/16/2022

Gauge Type: Electronic Gauge Range: 10000 psi Gauge SNt SP-224831





Navajo Refining Waste Disposal Well No. 3 Well:

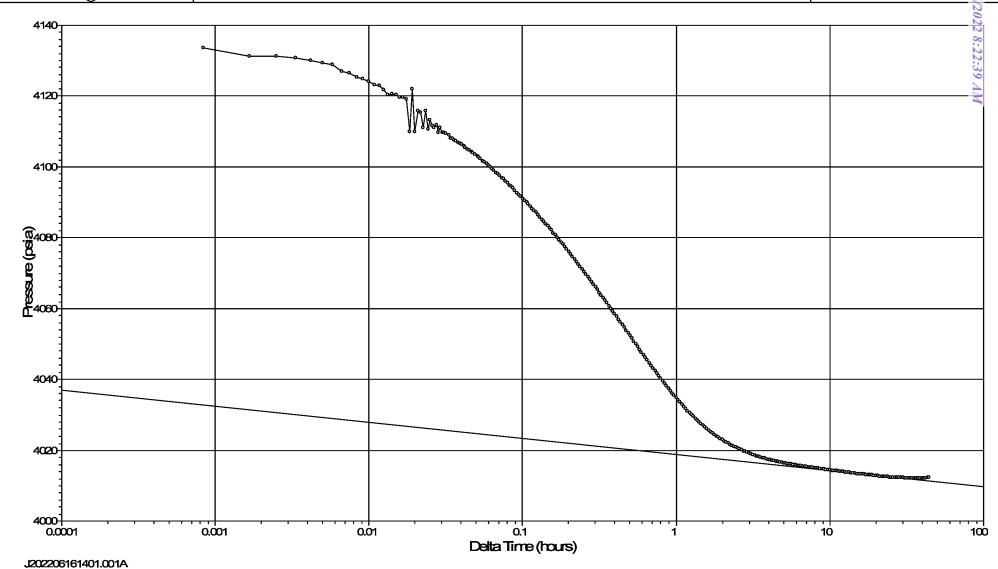
Fieldt Davonia

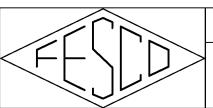
Test Date: 06/14 - 06/16/2022

Gauge Type: Electronic Gauge Range: 10000 psi Gauge SNt

SP-224831

Semilog Flot OCI (Falloff Test)





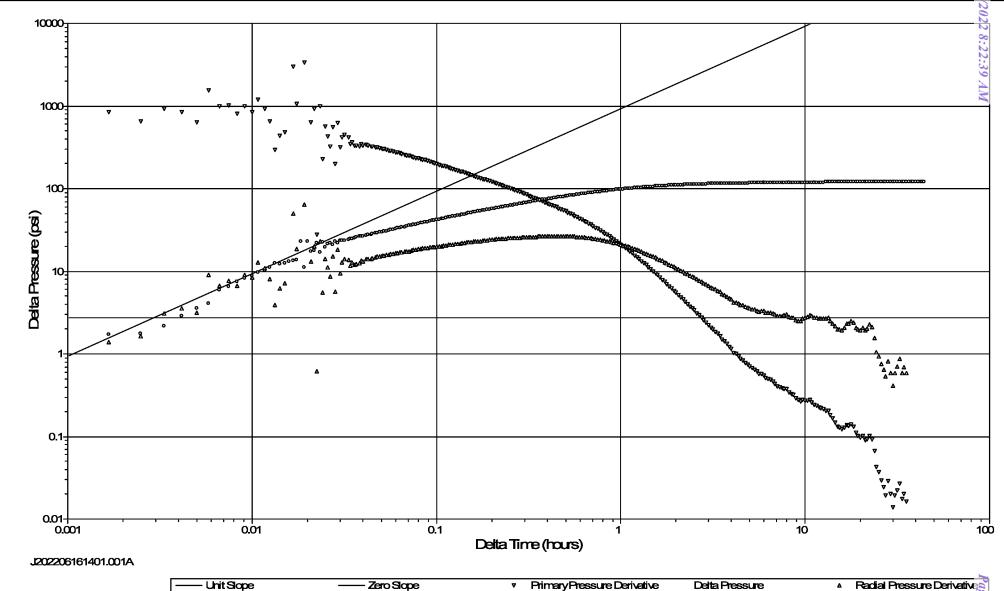
Well: Navajo Refining Waste Disposal Well No. 3

Field: Davonia

Test Date: 06/14 - 06/16/2022

Gauge Type: Electronic Gauge Range: 10000 psi

Gauge Range: 10000 psi Gauge SN: SP-224831 Plot (Falloff Test)





1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022

Gauge Depth: 7572 ft
Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 psi
Gauge OD: 1.2500"

| | Real | Delta | | | Delta | | |
|-----------|----------|----------|------|---------|-------|--------|--------------------------------------|
| Test Date | Time | Time | WHP | ВНР | BHP | Temp. | |
| mm/dd/yy | hh:mm:ss | hours | psia | psia | psi | °F ¯ | Comments |
| | | | | | | | |
| 06/14/22 | 08:10:44 | -3.22778 | | 18.63 | | | Powered up gauge. |
| 06/14/22 | 08:12:00 | -3.20667 | | 18.31 | | 80.75 | |
| 06/14/22 | 08:14:00 | -3.17333 | | 18.57 | | 81.12 | |
| 06/14/22 | 08:16:00 | -3.14000 | | 18.61 | | 81.26 | |
| 06/14/22 | 08:18:00 | -3.10667 | | 18.70 | | 81.23 | |
| 06/14/22 | 08:19:00 | -3.09000 | | 21.48 | | 80.92 | |
| 06/14/22 | 08:20:00 | -3.07333 | | 969.63 | | 90.98 | |
| 06/14/22 | 08:20:06 | -3.07167 | | 983.99 | | 92.67 | Pressured up lubricator. |
| 06/14/22 | 08:21:00 | -3.05667 | | 1008.16 | | 96.40 | |
| 06/14/22 | 08:22:00 | -3.04000 | | 1013.49 | | 96.19 | |
| 06/14/22 | 08:23:00 | -3.02333 | | 1011.98 | | 95.13 | |
| 06/14/22 | 08:24:00 | -3.00667 | | 1004.12 | | 100.51 | |
| 06/14/22 | 08:25:00 | -2.99000 | | 1019.75 | | 102.73 | |
| 06/14/22 | 08:26:00 | -2.97333 | | 1019.96 | | 102.79 | |
| 06/14/22 | 08:27:00 | -2.95667 | | 1022.42 | | 102.81 | |
| 06/14/22 | 08:28:00 | -2.94000 | | 1018.33 | | 102.81 | |
| 06/14/22 | 08:28:48 | -2.92667 | | 1018.84 | | | Casing Pressure = 760 psig. |
| 06/14/22 | 08:28:51 | -2.92583 | 1020 | 1018.56 | | | RIH making injecting gradient stops. |
| 06/14/22 | 08:29:00 | -2.92333 | | 1018.26 | | 102.81 | |
| 06/14/22 | 08:30:00 | -2.90667 | | 1066.46 | | 102.74 | |
| 06/14/22 | 08:31:00 | -2.89000 | | 1126.42 | | 102.78 | |
| 06/14/22 | 08:32:00 | -2.87333 | | 1180.19 | | 102.76 | |
| 06/14/22 | 08:33:00 | -2.85667 | | 1228.26 | | 102.73 | |
| 06/14/22 | 08:34:00 | -2.84000 | | 1269.21 | | 102.68 | |
| 06/14/22 | 08:35:00 | -2.82333 | | 1318.63 | | 102.61 | |
| 06/14/22 | 08:36:00 | -2.80667 | | 1357.62 | | 102.55 | |
| 06/14/22 | 08:37:00 | -2.79000 | | 1393.94 | | 102.51 | |
| 06/14/22 | 08:38:00 | -2.77333 | | 1426.01 | | | Arrived at 1000 ft stop. |
| 06/14/22 | 08:39:00 | -2.75667 | | 1430.32 | | 102.47 | |
| 06/14/22 | 08:40:00 | -2.74000 | | 1420.96 | | 102.46 | |
| 06/14/22 | 08:41:00 | -2.72333 | | 1424.35 | | 102.46 | |
| 06/14/22 | 08:42:00 | -2.70667 | | 1424.11 | | 102.46 | |
| 06/14/22 | 08:43:00 | -2.69000 | | 1425.29 | | 102.46 | |
| 06/14/22 | 08:43:03 | -2.68917 | | 1424.55 | | | Left 1000 ft stop. |
| 06/14/22 | 08:44:00 | -2.67333 | | 1463.33 | | 102.43 | |
| 06/14/22 | 08:45:00 | -2.65667 | | 1508.42 | | 102.38 | |
| 06/14/22 | 08:46:00 | -2.64000 | | 1552.11 | | 102.34 | |
| 06/14/22 | 08:47:00 | -2.62333 | | 1601.55 | | 102.29 | |
| | | | | | | | |



1000 Fesco Ave. - Alice, Texas 78332



RESERVOIR PRESSURE FALLOFF TEST

Company: Petrotek Corporation

Navajo Refining Waste Disposal Well No. 3 Well:

Field: Davonia

Location: Eddy County, NM

7660 - 8450; 8540 - 8620 ft (MD) Perfs:

Formation: Unavailable

Test Date: 06/14 - 06/16/2022 Gauge Depth: 7572 ft

Gauge Type: Electronic Gauge SN: SP-224831 Gauge Range: 10000 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 |
|-----------------------|--------------------------|------------------------|-------------|-------------|---------------------|-------------|--------------------------|
| 06/14/22 | 08:48:00 | -2.60667 | | 1643.04 | | 102.25 | |
| 06/14/22 | 08:49:00 | -2.59000 | | 1690.56 | | 102.21 | |
| 06/14/22 | 08:50:00 | -2.57333 | | 1735.59 | | 102.17 | |
| 06/14/22 | 08:51:00 | -2.55667 | | 1781.04 | | 102.13 | |
| 06/14/22 | 08:52:00 | -2.54000 | | 1827.63 | | 102.09 | |
| 06/14/22 | 08:52:21 | -2.53417 | | 1834.29 | | 102.08 | Arrived at 2000 ft stop. |
| 06/14/22 | 08:53:00 | -2.52333 | | 1833.20 | | 102.07 | • |
| 06/14/22 | 08:54:00 | -2.50667 | | 1836.15 | | 102.07 | |
| 06/14/22 | 08:55:00 | -2.49000 | | 1832.32 | | 102.07 | |
| 06/14/22 | 08:56:00 | -2.47333 | | 1832.77 | | 102.07 | |
| 06/14/22 | 08:57:00 | -2.45667 | | 1834.87 | | 102.06 | |
| 06/14/22 | 08:57:24 | -2.45000 | | 1831.35 | | 102.06 | Left 2000 ft stop. |
| 06/14/22 | 08:58:00 | -2.44000 | | 1863.32 | | 102.05 | • |
| 06/14/22 | 08:59:00 | -2.42333 | | 1920.42 | | 102.00 | |
| 06/14/22 | 09:00:00 | -2.40667 | | 1971.20 | | 101.96 | |
| 06/14/22 | 09:01:00 | -2.39000 | | 2022,71 | | 101.93 | |
| 06/14/22 | 09:02:00 | -2.37333 | | 2073.93 | | 101.89 | |
| 06/14/22 | 09:03:00 | -2.35667 | | 2126.55 | | 101.86 | |
| 06/14/22 | 09:04:00 | -2,34000 | | 2176.95 | | 101.82 | |
| 06/14/22 | 09:05:00 | -2.32333 | | 2225.37 | | 101.78 | |
| 06/14/22 | 09:05:27 | -2.31583 | | 2244.38 | | 101.77 | Arrived at 3000 ft stop. |
| 06/14/22 | 09:06:00 | -2.30667 | | 2245.28 | | 101.76 | • |
| 06/14/22 | 09:07:00 | -2.29000 | | 2246.30 | | 101.76 | |
| 06/14/22 | 09:08:00 | -2.27333 | | 2243.66 | | 101.75 | |
| 06/14/22 | 09:09:00 | -2.25667 | | 2245.41 | | 101.75 | |
| 06/14/22 | 09:10:00 | -2.24000 | | 2243.53 | | 101.75 | |
| 06/14/22 | 09:10:33 | -2.23083 | | 2244.41 | | 101.74 | Left 3000 ft stop. |
| 06/14/22 | 09:11:00 | -2.22333 | | 2260.74 | | 101.74 | • |
| 06/14/22 | 09:12:00 | -2.20667 | | 2307.55 | | 101.71 | |
| 06/14/22 | 09:13:00 | -2.19000 | | 2353.02 | | 101.68 | |
| 06/14/22 | 09:14:00 | -2.17333 | | 2399.49 | | 101.66 | |
| 06/14/22 | 09:15:00 | -2.15667 | | 2444.64 | | 101.63 | |
| 06/14/22 | 09:16:00 | -2.14000 | | 2491.26 | | 101.61 | |
| 06/14/22 | 09:17:00 | -2.12333 | | 2539.28 | | 101.60 | |
| 06/14/22 | 09:18:00 | -2.10667 | | 2581.80 | | 101.58 | |
| 06/14/22 | 09:19:00 | -2.09000 | | 2633.81 | | 101.57 | |
| 06/14/22 | 09:19:45 | -2.07750 | | 2657.27 | | 101.56 | Arrived at 4000 ft stop. |
| 06/14/22 | 09:20:00 | -2.07333 | | 2657.52 | | 101.56 | • |



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022

Gauge Depth: 7572 ft
Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 psi
Gauge OD: 1,2500"

| | Real | Delta | | | Delta | | |
|-----------|----------|-----------------------|------|---------|-------|--------|--------------------------|
| Test Date | Time | Time | WHP | ВНР | BHP | Temp. | |
| mm/dd/yy | hh:mm:ss | hours | psia | psia | psi | °F ¯ | Comments |
| | | | | | | | |
| 06/14/22 | 09:21:00 | -2.05667 | | 2654.03 | | 101.56 | |
| 06/14/22 | 09:22:00 | -2.04000 | | 2655.50 | | 101.56 | |
| 06/14/22 | 09:23:00 | -2.02333 | | 2654.42 | | 101.56 | |
| 06/14/22 | 09:24:00 | -2.00667 | | 2661.82 | | 101.55 | |
| 06/14/22 | 09:24:36 | -1.99667 | | 2652.81 | | | Left 4000 ft stop. |
| 06/14/22 | 09:25:00 | -1.99000 | | 2665.86 | | 101.55 | |
| 06/14/22 | 09:26:00 | -1.97333 | | 2708.84 | | 101.54 | |
| 06/14/22 | 09:27:00 | -1.95667 | | 2747.75 | | 101.53 | |
| 06/14/22 | 09:28:00 | -1. 9 4000 | | 2787.10 | | 101.53 | |
| 06/14/22 | 09:29:00 | -1.92333 | | 2828.20 | | 101.53 | |
| 06/14/22 | 09:30:00 | -1.90667 | | 2869.61 | | 101.52 | |
| 06/14/22 | 09:31:00 | -1.89000 | | 2909.25 | | 101.52 | |
| 06/14/22 | 09:32:00 | -1.87333 | | 2951.16 | | 101.53 | |
| 06/14/22 | 09:33:00 | -1.85667 | | 2991.89 | | 101.53 | |
| 06/14/22 | 09:34:00 | -1.84000 | | 3036.04 | | 101.53 | |
| 06/14/22 | 09:35:00 | -1.82333 | | 3064.50 | | 101.54 | |
| 06/14/22 | 09:35:03 | -1.82250 | | 3067.47 | | 101.54 | Arrived at 5000 ft stop. |
| 06/14/22 | 09:36:00 | -1.80667 | | 3068.46 | | 101.54 | |
| 06/14/22 | 09:37:00 | -1.79000 | | 3068.11 | | 101.54 | |
| 06/14/22 | 09:38:00 | -1.77333 | | 3067.32 | | 101.53 | |
| 06/14/22 | 09:39:00 | -1.75667 | | 3066.65 | | 101.53 | |
| 06/14/22 | 09:40:00 | -1.74000 | | 3067.44 | | 101.53 | Left 5000 ft stop. |
| 06/14/22 | 09:41:00 | -1.72333 | | 3102.36 | | 101.54 | |
| 06/14/22 | 09:42:00 | -1.70667 | | 3150.53 | | 101.55 | |
| 06/14/22 | 09:43:00 | -1.69000 | | 3195.90 | | 101.56 | |
| 06/14/22 | 09:44:00 | -1.67333 | | 3241.14 | | 101.58 | |
| 06/14/22 | 09:45:00 | -1.65667 | | 3286.48 | | 101.60 | |
| 06/14/22 | 09:46:00 | -1.64000 | | 3333.75 | | 101.62 | |
| 06/14/22 | 09:47:00 | -1.62333 | | 3377.98 | | 101.65 | |
| 06/14/22 | 09:48:00 | -1.60667 | | 3426.06 | | 101.68 | |
| 06/14/22 | 09:49:00 | -1.59000 | | 3470.43 | | 101.71 | |
| 06/14/22 | 09:49:24 | -1.58333 | | 3481.43 | | | Arrived at 6000 ft stop. |
| 06/14/22 | 09:50:00 | -1.57333 | | 3480.11 | | 101.72 | |
| 06/14/22 | 09:51:00 | -1.55667 | | 3482.01 | | 101.72 | |
| 06/14/22 | 09:52:00 | -1.54000 | | 3482.15 | | 101.72 | |
| 06/14/22 | 09:53:00 | -1.52333 | | 3480.54 | | 101.72 | |
| 06/14/22 | 09:54:00 | -1.50667 | | 3480.99 | | 101.71 | |
| 06/14/22 | 09:54:33 | -1.49750 | | 3480.82 | | 101.71 | Left 6000 ft stop. |
| | | | | | | | - |



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022 Gauge Depth: 7572 ft

Gauge Type: Electronic Gauge SN: SP-224831 Gauge Range: 10000 psi

Gauge OD: 1.2500"

Real Delta Delta WHP Test Date Time **BHP BHP** Time Temp. ٥F mm/dd/yy hh:mm:ss hours psia Comments psia psi 06/14/22 09:55:00 -1.49000 3492.05 101.72 101.74 06/14/22 09:56:00 -1.47333 3530.46 06/14/22 09:57:00 -1.45667 3566.64 101.77 06/14/22 09:58:00 -1.44000 3602.26 101.80 06/14/22 09:59:00 -1.42333 3641.20 101.83 06/14/22 10:00:00 -1.40667 3680.00 101.87 -1.39000 06/14/22 10:01:00 3714.75 101.91 06/14/22 10:02:00 -1.37333 3754.00 101.95 06/14/22 10:03:00 -1.35667 3790.41 101.99 06/14/22 10:04:00 -1.34000 3831.34 102.03 -1.32333 06/14/22 10:05:00 3873.83 102.07 06/14/22 10:05:42 -1.31167 3895.36 102.10 Arrived at 7000 ft stop. 10:06:00 06/14/22 -1.30667 3894.62 102.11 102.11 06/14/22 10:07:00 -1.290003894.62 -1.27333 06/14/22 10:08:00 3894.65 102.10 06/14/22 10:09:00 -1.256673894.73 102.10 06/14/22 | 10:10:00 -1.24000 3894.96 102.10 06/14/22 | 10:10:42 -1.228333894.81 102.10 Left 7000 ft stop. -1.22333 06/14/22 | 10:11:00 3904.16 102.10 102.14 06/14/22 10:12:00 -1.206673942.91 102.18 06/14/22 10:13:00 -1.19000 3984.72 06/14/22 10:14:00 -1.17333 4038.18 102.24 06/14/22 | 10:15:00 4088.85 102.30 -1.15667 06/14/22 | 10:16:00 -1.14000 4128.08 102.36 1020 102.36 Softset gauge at 7572 ft 06/14/22 10:16:15 -1.13583 4133.16 06/14/22 10:16:18 -1.13500 4133.17 102.36 POOH with slickline 06/14/22 10:17:00 -1.12333 4133.10 102.37 06/14/22 10:18:00 -1.10667 4133.13 102.37 06/14/22 -1.09000 4133.00 102.37 10:19:00 06/14/22 10:20:00 -1.07333 4132.98 102.37 06/14/22 10:21:00 -1.05667 4133.10 102.37 06/14/22 10:22:00 -1.04000 1020 4132.80 102.37 7572 ft stop. 06/14/22 10:23:00 -1.02333 4133.07 102.36 06/14/22 10:24:00 -1.006674133.22 102.36 06/14/22 10:25:00 -0.99000 4132.91 102.36 06/14/22 10:26:00 -0.97333 4133.05 102.36 06/14/22 10:27:00 -0.95667 4133.01 102.36 06/14/22 10:28:00 -0.94000 4132.97 102.36



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022

Gauge Depth: 7572 ft
Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 psi

Gauge OD: 1.2500"

Real Delta Delta WHP Test Date Time **BHP BHP** Time Temp. ٥F mm/dd/yy hh:mm:ss hours psia Comments psia psi 06/14/22 10:29:00 -0.92333 4132.87 102.36 102.36 06/14/22 10:30:00 -0.90667 4133.23 06/14/22 10:31:00 -0.89000 4132.90 102.36 06/14/22 10:32:00 -0.87333 4133.08 102.36 06/14/22 10:33:00 -0.85667 4132.92 102.36 06/14/22 10:34:00 -0.84000 4132.97 102.36 102,36 06/14/22 10:35:00 -0.82333 4133.01 06/14/22 10:36:00 -0.80667 4133.00 102.36 06/14/22 10:37:00 -0.79000 4133.18 102.35 06/14/22 10:38:00 -0.77333 4132.96 102.35 06/14/22 10:39:00 -0.75667 4133.01 102.35 06/14/22 10:40:00 -0.74000 4133.04 102.35 -0.72333 06/14/22 10:41:00 4132.60 102.35 06/14/22 10:42:00 -0.70667 4133.17 102.35 06/14/22 10:43:00 -0.69000 4133.08 102.35 06/14/22 10:44:00 -0.67333 4132.94 102.35 06/14/22 10:45:00 -0.65667 4133.01 102.35 06/14/22 10:46:00 -0.64000 4132.88 102.34 4132.90 102.34 06/14/22 10:47:00 -0.62333 06/14/22 10:48:00 -0.60667 4132.90 102.34 06/14/22 10:49:00 -0.59000 4132.98 102.34 06/14/22 10:50:00 -0.57333 4132.92 102.34 06/14/22 4132.97 102.34 10:51:00 -0.55667 06/14/22 10:52:00 -0.54000 4132.96 102.34 -0.52333 102.34 06/14/22 10:53:00 4132.95 06/14/22 10:54:00 -0.50667 4132.86 102.33 06/14/22 10:55:00 -0.49000 4132.86 102.33 06/14/22 10:56:00 -0.47333 4132.95 102.33 06/14/22 10:57:00 -0.45667 4132.96 102.33 06/14/22 10:58:00 -0.44000 4132.85 102.33 06/14/22 10:59:00 -0.42333 4132.92 102.33 06/14/22 11:00:00 -0.40667 4132.97 102.33 06/14/22 11:01:00 -0.39000 4132.96 102.32 06/14/22 11:02:00 -0.37333 4133.10 102.32 06/14/22 11:03:00 -0.35667 4133.02 102,32 06/14/22 11:04:00 -0.34000 4133.05 102.32 06/14/22 11:05:00 -0.32333 4132.83 102.32 06/14/22 11:06:00 -0.30667 4133.01 102.32



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022

Gauge Type: Electronic Gauge SN: SP-224831 Gauge Range: 10000 psi

Gauge Depth: 7572 ft

Gauge OD: 1.2500"

Real Delta Delta WHP Test Date Time **BHP BHP** Time Temp. ٥F mm/dd/yy hh:mm:ss hours psia Comments psia psi 06/14/22 11:07:00 -0.29000 4133.13 102.31 102.31 06/14/22 11:08:00 -0.27333 4133.04 06/14/22 11:09:00 -0.25667 4132.96 102.31 06/14/22 11:10:00 -0.24000 4133.15 102.31 06/14/22 11:11:00 -0.22333 4132.92 102.31 06/14/22 11:12:00 -0.20667 4132.91 102.31 102,31 06/14/22 11:13:00 -0.19000 4133.07 06/14/22 11:14:00 -0.17333 4132.90 102.30 06/14/22 11:15:00 -0.15667 4133.10 102.30 06/14/22 11:16:00 -0.14000 4132.96 102.30 06/14/22 11:17:00 -0.123334133.02 102.30 06/14/22 11:18:00 -0.10667 4133.13 102.30 06/14/22 11:19:00 -0.09000 4133.08 102.30 102.30 06/14/22 11:20:00 -0.07333 4133.33 06/14/22 11:21:00 -0.05667 4133.00 102.29 06/14/22 11:22:00 -0.04000 4133.10 102.29 -0.02333 06/14/22 11:23:00 4132.95 102.29 06/14/22 11:24:00 -0.00667 4132.99 102.29 102.29 Casing Pressure = 760 psig. 06/14/22 11:24:18 -0.00167 4133.17 102.29 Water Injection Rate = Unavailable. 06/14/22 11:24:21 -0.000834132.94 102,29 Shut in well for 44.1 hr BHP Falloff Test. 06/14/22 11:24:24 0.00000 4132.91 0.00 06/14/22 11:24:27 0.00083 4133.70 0.79 102.29 06/14/22 4131.19 -1.72102.29 11:24:30 0.00167 06/14/22 11:24:33 0.00250 4131.15 -1.76102.29 0.00333 -2.18 102.29 06/14/22 11:24:36 4130.73 06/14/22 11:24:39 0.00417 4130.02 -2.89 102,29 -3.56 102.29 06/14/22 11:24:42 0.00500 4129.35 0.00583 06/14/22 11:24:45 4128.85 -4.06102.29 06/14/22 11:24:48 0.00667 4126.98 -5.93 102.29 06/14/22 11:24:51 0.00750 4126.38 -6.53 102.29 06/14/22 11:24:54 0.00833 4125.43 -7.48 102.29 -8.15 06/14/22 11:24:57 0.00917 4124.76 102.29 06/14/22 11:25:00 0.01000 4124.17 -8.74 102.29 06/14/22 11:25:03 0.01083 4123.19 -9.72 102.29 06/14/22 11:25:06 0.01167 4122.84 -10.07 102.29 06/14/22 11:25:09 0.01250 4121.80 -11.11 102.29 06/14/22 11:25:12 0.01333 4120.36 -12.55102,29 06/14/22 11:25:15 0.01417 4120.65 -12.26 102.29



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022

Gauge Depth: 7572 ft
Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 psi

Gauge OD: 1.2500"

Real Delta Delta WHP Test Date Time **BHP BHP** Time Temp. ٥F mm/dd/yy hh:mm:ss hours psia Comments psia psi 06/14/22 11:25:18 0.01500 4120.28 -12.63102.29 -13.21 06/14/22 11:25:21 0.01583 4119.70 102.30 06/14/22 11:25:24 0.01667 4119.63 -13.28 102.30 06/14/22 11:25:27 0.01750 4119.16 -13.75102.30 06/14/22 11:25:30 0.01833 4109.86 -23.05 102.30 06/14/22 11:25:33 0.01917 4121.92 -10.99 102.30 -22.88 06/14/22 11:25:36 0.02000 4110.03 102.30 06/14/22 11:25:39 0.02083 4115.77 -17.14 102.31 06/14/22 11:25:42 0.02167 4115.26 -17.65102.31 06/14/22 11:25:45 0.02250 4111.06 -21.85 102.31 -17.11 06/14/22 11:25:48 0.02333 4115.80 102.31 06/14/22 11:25:51 0.02417 4110.64 -22,27 102.31 06/14/22 11:25:54 0.02500 4113.31 -19.60 102.32 06/14/22 11:25:57 0.02583 4111.63 -21.28 102.32 -21.90 06/14/22 11:26:00 0.02667 4111.01 102.32 06/14/22 11:26:03 0.02750 4111.85 -21.06 102.32 06/14/22 11:26:06 0.02833 4109.77 -23.14 102.32 06/14/22 11:26:09 0.02917 4111.07 -21.84 102.33 -23.34 06/14/22 11:26:12 0.03000 4109.57 102.33 -23.29 06/14/22 11:26:15 0.03083 4109.62 102.33 06/14/22 11:26:18 0.03167 4109.51 -23.40 102.33 06/14/22 11:26:24 0.03333 4108.87 -24.04 102.33 06/14/22 -24.79 102.33 11:26:27 0.03417 4108.12 06/14/22 11:26:30 0.03500 4108.09 -24.82 102.33 102.34 06/14/22 11:26:33 0.03583 4107.64 -25.2706/14/22 11:26:36 0.03667 4107.30 -25.61 102.34 06/14/22 11:26:42 4106.76 -26.15 102.34 0.03833 11:26:45 4106.60 06/14/22 0.03917 -26.31 102.34 06/14/22 0.04000 4106.25 11:26:48 -26.66 102.34 06/14/22 11:26:54 0.04167 4105.82 -27.09 102.34 06/14/22 11:26:57 0.04250 4105.50 -27.41 102.34 06/14/22 11:27:03 0.04417 4104.98 -27.93 102.35 06/14/22 11:27:06 0.04500 4104.73 102.35 -28.18 06/14/22 11:27:12 0.04667 4104.20 -28.71102.35 06/14/22 11:27:15 0.04750 4103.97 -28.94 102.35 -29.46 06/14/22 11:27:21 0.04917 4103.45 102.35 06/14/22 11:27:27 0.05083 4102.95 -29.96 102,35 06/14/22 11:27:30 0.05167 4102.71 -30.20 102.35



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022

Gauge Depth: 7572 ft
Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 psi
Gauge OD: 1.2500"

| | Real | Delta | | | Delta | | |
|-----------|----------|----------|------|---------|--------|--------|----------|
| Test Date | Time | Time | WHP | ВНР | ВНР | Temp. | |
| mm/dd/yy | hh:mm:ss | hours | psia | psia | psi | °F | Comments |
| | | | _ | _ | _ | | |
| 06/14/22 | 11:27:36 | 0.05333 | | 4102.22 | -30.69 | 102.35 | |
| 06/14/22 | 11:27:42 | 0.05500 | | 4101.74 | -31.17 | 102.36 | |
| 06/14/22 | 11:27:48 | 0.05667 | | 4101.27 | -31.64 | 102.36 | |
| 06/14/22 | 11:27:54 | 0.05833 | | 4100.81 | -32.10 | 102.36 | |
| 06/14/22 | 11:28:00 | 0.06000 | | 4100.35 | -32.56 | 102.36 | |
| 06/14/22 | 11:28:06 | 0.06167 | | 4099.91 | -33.00 | 102.36 | |
| 06/14/22 | 11:28:12 | 0.06333 | | 4099.46 | -33.45 | 102.36 | |
| 06/14/22 | 11:28:18 | 0.06500 | | 4099.03 | -33.88 | 102.36 | |
| 06/14/22 | 11:28:27 | 0.06750 | | 4098.40 | -34.51 | 102.36 | |
| 06/14/22 | 11:28:33 | 0.06917 | | 4097.97 | -34.94 | 102.36 | |
| 06/14/22 | 11:28:39 | 0.07083 | | 4097.56 | -35.35 | 102.36 | |
| 06/14/22 | 11:28:48 | 0.07333 | | 4096.96 | -35.95 | 102.37 | |
| 06/14/22 | 11:28:54 | 0.07500 | | 4096.57 | -36.34 | 102.37 | |
| 06/14/22 | 11:29:03 | 0.07750 | | 4095.98 | -36.93 | 102.37 | |
| 06/14/22 | 11:29:12 | 0.08000 | | 4095.41 | -37.50 | 102.38 | |
| 06/14/22 | 11:29:21 | 0.08250 | | 4094.85 | -38.06 | 102.38 | |
| 06/14/22 | 11:29:27 | 0.08417 | | 4094.48 | -38.43 | 102.38 | |
| 06/14/22 | 11:29:36 | 0.08667 | | 4093.94 | -38.97 | 102.38 | |
| 06/14/22 | 11:29:45 | 0.08917 | | 4093.40 | -39.51 | 102.39 | |
| 06/14/22 | 11:29:57 | 0.09250 | | 4092.70 | -40.21 | 102.39 | |
| 06/14/22 | 11:30:06 | 0.09500 | | 4092.18 | -40.73 | 102.40 | |
| 06/14/22 | 11:30:15 | 0.09750 | | 4091.68 | -41.23 | 102.41 | |
| 06/14/22 | 11:30:27 | 0.10083 | | 4091.01 | -41.90 | 102.42 | |
| 06/14/22 | 11:30:36 | 0.10333 | | 4090.53 | -42.38 | 102.42 | |
| 06/14/22 | 11:30:48 | 0.10667 | | 4089.90 | -43.01 | 102.43 | |
| 06/14/22 | 11:30:57 | 0.10917 | | 4089.43 | -43.48 | 102,44 | |
| 06/14/22 | 11:31:09 | 0.11250 | | 4088.83 | -44.08 | 102.44 | |
| 06/14/22 | 11:31:21 | 0.11583 | | 4088.23 | -44.68 | 102.45 | |
| 06/14/22 | 11:31:33 | 0.11917 | | 4087.64 | -45.27 | 102.45 | |
| 06/14/22 | 11:31:45 | 0.12250 | | 4087.07 | -45.84 | 102.46 | |
| 06/14/22 | 11:32:00 | 0.12667 | | 4086.37 | -46.54 | 102.47 | |
| 06/14/22 | 11:32:12 | 0.13000 | | 4085.81 | -47.10 | 102.47 | |
| 06/14/22 | 11:32:27 | 0.13417 | | 4085.13 | -47.78 | 102.48 | |
| 06/14/22 | 11:32:39 | 0.13750 | | 4084.60 | -48.31 | 102.49 | |
| 06/14/22 | 11:32:54 | 0.14167 | | 4083.95 | -48.96 | 102.50 | |
| 06/14/22 | 11:33:09 | 0.14583 | | 4083.32 | -49.59 | 102.51 | |
| 06/14/22 | 11:33:24 | 0.15000 | | 4082.69 | -50.22 | 102,52 | |
| 06/14/22 | 11:33:39 | 0.15417 | | 4082.09 | -50.82 | 102.53 | |
| | | 0.20 117 | | | | , | |



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022

Gauge Depth: 7572 ft
Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 psi
Gauge OD: 1.2500"

| | Real | Delta | | | Delta | | |
|-----------|----------|---------|------|---------|--------|--------|----------|
| Test Date | Time | Time | WHP | ВНР | ВНР | Temp. | |
| mm/dd/yy | hh:mm:ss | hours | psia | psia | psi | °F | Comments |
| | | | _ | _ | _ | | |
| 06/14/22 | 11:33:57 | 0.15917 | | 4081.37 | -51.54 | 102.54 | |
| 06/14/22 | 11:34:12 | 0.16333 | | 4080.78 | -52.13 | 102.55 | |
| 06/14/22 | 11:34:30 | 0.16833 | | 4080.09 | -52.82 | 102.56 | |
| 06/14/22 | 11:34:48 | 0.17333 | | 4079.41 | -53.50 | 102.58 | |
| 06/14/22 | 11:35:06 | 0.17833 | | 4078.75 | -54.16 | 102.59 | |
| 06/14/22 | 11:35:24 | 0.18333 | | 4078.10 | -54.81 | 102.61 | |
| 06/14/22 | 11:35:45 | 0.18917 | | 4077.37 | -55.54 | 102.62 | |
| 06/14/22 | 11:36:03 | 0.19417 | | 4076.75 | -56.16 | 102.64 | |
| 06/14/22 | 11:36:24 | 0.20000 | | 4076.05 | -56.86 | 102.65 | |
| 06/14/22 | 11:36:45 | 0.20583 | | 4075.36 | -57.55 | 102.67 | |
| 06/14/22 | 11:37:06 | 0.21167 | | 4074.69 | -58.22 | 102.68 | |
| 06/14/22 | 11:37:30 | 0.21833 | | 4073.93 | -58.98 | 102.69 | |
| 06/14/22 | 11:37:51 | 0.22417 | | 4073.27 | -59.64 | 102.71 | |
| 06/14/22 | 11:38:15 | 0.23083 | | 4072.55 | -60.36 | 102.73 | |
| 06/14/22 | 11:38:39 | 0.23750 | | 4071.84 | -61.07 | 102.75 | |
| 06/14/22 | 11:39:03 | 0.24417 | | 4071.15 | -61.76 | 102.77 | |
| 06/14/22 | 11:39:30 | 0.25167 | | 4070.40 | -62.51 | 102.79 | |
| 06/14/22 | 11:39:57 | 0.25917 | | 4069.66 | -63.25 | 102.81 | |
| 06/14/22 | 11:40:24 | 0.26667 | | 4068.94 | -63.97 | 102.83 | |
| 06/14/22 | 11:40:51 | 0.27417 | | 4068.23 | -64.68 | 102.85 | |
| 06/14/22 | 11:41:21 | 0.28250 | | 4067.46 | -65.45 | 102.87 | |
| 06/14/22 | 11:41:51 | 0.29083 | | 4066.72 | -66.19 | 102.89 | |
| 06/14/22 | 11:42:21 | 0.29917 | | 4065.99 | -66.92 | 102.90 | |
| 06/14/22 | 11:42:51 | 0.30750 | | 4065.29 | -67.62 | 102.92 | |
| 06/14/22 | 11:43:24 | 0.31667 | | 4064.50 | -68.41 | 102.94 | |
| 06/14/22 | 11:43:57 | 0.32583 | | 4063.76 | -69.15 | 102.97 | |
| 06/14/22 | 11:44:30 | 0.33500 | | 4063.05 | -69.86 | 102.99 | |
| 06/14/22 | 11:45:06 | 0.34500 | | 4062.27 | -70.64 | 103.01 | |
| 06/14/22 | 11:45:42 | 0.35500 | | 4061.51 | -71.40 | 103.03 | |
| 06/14/22 | 11:46:21 | 0.36583 | | 4060.73 | -72.18 | 103.06 | |
| 06/14/22 | 11:47:00 | 0.37667 | | 4059.96 | -72.95 | 103.08 | |
| 06/14/22 | 11:47:39 | 0.38750 | | 4059.20 | -73.71 | 103.11 | |
| 06/14/22 | 11:48:18 | 0.39833 | | 4058.47 | -74.44 | 103.13 | |
| 06/14/22 | 11:49:00 | 0.41000 | | 4057.70 | -75.21 | 103.16 | |
| 06/14/22 | 11:49:45 | 0.42250 | | 4056.89 | -76.02 | 103.19 | |
| 06/14/22 | 11:50:27 | 0.43417 | | 4056.17 | -76.74 | 103.21 | |
| 06/14/22 | 11:51:15 | 0.44750 | | 4055.35 | -77.56 | 103.24 | |
| 06/14/22 | 11:52:00 | 0.46000 | | 4054.62 | -78.29 | 103.26 | |
| | , | 211000 | | | | , | |



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022 Gauge Depth: 7572 ft

Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 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. | Comments |
|-----------------------|--------------------------|------------------------|-------------|-------------|---------------------|--------|----------|
| 06/14/22 | 11:52:48 | 0.47333 | | 4053.84 | -79.07 | 103.30 | |
| 06/14/22 | 11:53:39 | 0.48750 | | 4053.05 | -79.86 | 103.33 | |
| 06/14/22 | 11:54:30 | 0.50167 | | 4052.29 | -80.62 | 103.36 | |
| 06/14/22 | 11:55:21 | 0.51583 | | 4051.53 | -81.38 | 103.39 | |
| 06/14/22 | 11:56:18 | 0.53167 | | 4050.72 | -82.19 | 103.43 | |
| 06/14/22 | 11:57:12 | 0.54667 | | 4049.98 | -82.93 | 103.45 | |
| 06/14/22 | 11:58:09 | 0.56250 | | 4049.21 | -83.70 | 103.49 | |
| 06/14/22 | 11:59:09 | 0.57917 | | 4048.43 | -84.48 | 103.52 | |
| 06/14/22 | 12:00:09 | 0.59583 | | 4047.68 | -85.23 | 103.56 | |
| 06/14/22 | 12:01:12 | 0.61333 | | 4046.91 | -86.00 | 103.59 | |
| 06/14/22 | 12:02:18 | 0.63167 | | 4046.13 | -86.78 | 103.63 | |
| 06/14/22 | 12:03:24 | 0.65000 | | 4045.38 | -87.53 | 103.66 | |
| 06/14/22 | 12:04:33 | 0.66917 | | 4044.62 | -88.29 | 103.70 | |
| 06/14/22 | 12:05:42 | 0.68833 | | 4043.89 | -89.02 | 103.73 | |
| 06/14/22 | 12:06:54 | 0.70833 | | 4043.15 | -89.76 | 103.77 | |
| 06/14/22 | 12:08:09 | 0.72917 | | 4042.41 | -90.50 | 103.81 | |
| 06/14/22 | 12:09:24 | 0.75000 | | 4041.69 | -91.22 | 103.84 | |
| 06/14/22 | 12:10:45 | 0.77250 | | 4040.95 | -91.96 | 103.88 | |
| 06/14/22 | 12:12:06 | 0.79500 | | 4040.23 | -92.68 | 103.92 | |
| 06/14/22 | 12:13:30 | 0.81833 | | 4039.52 | -93.39 | 103.96 | |
| 06/14/22 | 12:14:54 | 0.84167 | | 4038.83 | -94.08 | 104.00 | |
| 06/14/22 | 12:16:24 | 0.86667 | | 4038.14 | -94.77 | 104.04 | |
| 06/14/22 | 12:17:54 | 0.89167 | | 4037.45 | -95.46 | 104.09 | |
| 06/14/22 | 12:19:27 | 0.91750 | | 4036.78 | -96.13 | 104.12 | |
| 06/14/22 | 12:21:03 | 0.94417 | | 4036.12 | -96.79 | 104.17 | |
| 06/14/22 | 12:22:42 | 0.97167 | | 4035.46 | -97.45 | 104.21 | |
| 06/14/22 | 12:24:27 | 1.00083 | | 4034.79 | -98.12 | 104.27 | |
| 06/14/22 | 12:26:12 | 1.03000 | | 4034.15 | -98.76 | 104.31 | |
| 06/14/22 | 12:28:00 | 1.06000 | | 4033.54 | -99.37 | 104.35 | |
| 06/14/22 | 12:29:51 | 1.09083 | | 4032.92 | -99.99 | 104.40 | |
| 06/14/22 | 12:31:45 | 1.12250 | | 4032.32 | -100.59 | 104.45 | |
| 06/14/22 | 12:33:42 | 1.15500 | | 4031.74 | -101.17 | 104.50 | |
| 06/14/22 | 12:35:45 | 1.18917 | | 4031.15 | -101.76 | 104.55 | |
| 06/14/22 | 12:37:48 | 1.22333 | | 4030.60 | -102.31 | 104.60 | |
| 06/14/22 | 12:39:57 | 1.25917 | | 4030.04 | -102.87 | 104.65 | |
| 06/14/22 | 12:42:09 | 1.29583 | | 4029.50 | -103.41 | 104.70 | |
| 06/14/22 | 12:44:27 | 1.33417 | | 4028.97 | -103.94 | 104.75 | |
| 06/14/22 | 12:46:45 | 1.37250 | | 4028.46 | -104.45 | 104.80 | |



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022

Gauge Depth: 7572 ft
Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 psi
Gauge OD: 1.2500"

| | Real | Delta | | | Delta | | |
|-----------|----------|---------|------|---------|----------------------|--------|----------|
| Test Date | Time | Time | WHP | BHP | ВНР | Temp. | |
| mm/dd/yy | hh:mm:ss | hours | psia | psia | psi | °F | Comments |
| | | | _ | , | _ | | |
| 06/14/22 | 12:49:12 | 1.41333 | | 4027.95 | -104.96 | 104.85 | |
| 06/14/22 | 12:51:39 | 1.45417 | | 4027.46 | -105.45 | 104.91 | |
| 06/14/22 | 12:54:12 | 1.49667 | | 4026.99 | -105.92 | 104.96 | |
| 06/14/22 | 12:56:48 | 1.54000 | | 4026.53 | -106.38 | 105.01 | |
| 06/14/22 | 12:59:30 | 1.58500 | | 4026.08 | -106.83 | 105.07 | |
| 06/14/22 | 13:02:18 | 1.63167 | | 4025.64 | -107.27 | 105.12 | |
| 06/14/22 | 13:05:09 | 1.67917 | | 4025.22 | -107.69 | 105.18 | |
| 06/14/22 | 13:08:06 | 1.72833 | | 4024.80 | -108.11 | 105.23 | |
| 06/14/22 | 13:11:06 | 1.77833 | | 4024.41 | -108.50 | 105.30 | |
| 06/14/22 | 13:14:15 | 1.83083 | | 4024.01 | -108.90 | 105.35 | |
| 06/14/22 | 13:17:27 | 1.88417 | | 4023.64 | -109.27 | 105.41 | |
| 06/14/22 | 13:20:45 | 1.93917 | | 4023.28 | -109.63 | 105.47 | |
| 06/14/22 | 13:24:09 | 1.99583 | | 4022.93 | -109.98 | 105.53 | |
| 06/14/22 | 13:27:39 | 2.05417 | | 4022.59 | -110.32 | 105.59 | |
| 06/14/22 | 13:31:15 | 2.11417 | | 4022.26 | -110.65 | 105.65 | |
| 06/14/22 | 13:34:57 | 2.17583 | | 4021.95 | -110. 9 6 | 105.71 | |
| 06/14/22 | 13:38:45 | 2.23917 | | 4021.64 | -111.27 | 105.78 | |
| 06/14/22 | 13:42:39 | 2.30417 | | 4021.35 | -111.56 | 105.83 | |
| 06/14/22 | 13:46:42 | 2.37167 | | 4021.06 | -111.85 | 105.89 | |
| 06/14/22 | 13:50:51 | 2.44083 | | 4020.78 | -112.13 | 105.96 | |
| 06/14/22 | 13:55:09 | 2.51250 | | 4020.53 | -112.38 | 106.02 | |
| 06/14/22 | 13:59:33 | 2.58583 | | 4020.26 | -112.65 | 106.08 | |
| 06/14/22 | 14:04:03 | 2.66083 | | 4020.02 | -112.89 | 106.14 | |
| 06/14/22 | 14:08:45 | 2.73917 | | 4019.78 | -113.13 | 106.22 | |
| 06/14/22 | 14:13:33 | 2.81917 | | 4019.55 | -113.36 | 106.28 | |
| 06/14/22 | 14:18:27 | 2.90083 | | 4019.32 | -113.59 | 106.34 | |
| 06/14/22 | 14:23:33 | 2.98583 | | 4019.10 | -113.81 | 106.41 | |
| 06/14/22 | 14:28:48 | 3.07333 | | 4018.90 | -114.01 | 106.47 | |
| 06/14/22 | 14:34:09 | 3.16250 | | 4018.71 | -114.20 | 106.53 | |
| 06/14/22 | 14:39:42 | 3.25500 | | 4018.52 | -114.39 | 106.60 | |
| 06/14/22 | 14:45:24 | 3.35000 | | 4018.34 | -114.57 | 106.67 | |
| 06/14/22 | 14:51:15 | 3.44750 | | 4018.15 | -114.76 | 106.73 | |
| 06/14/22 | 14:57:18 | 3.54833 | | 4017.98 | -114.93 | 106.80 | |
| 06/14/22 | 15:03:33 | 3.65250 | | 4017.83 | -115.08 | 106.86 | |
| 06/14/22 | 15:09:57 | 3.75917 | | 4017.66 | -115.25 | 106.94 | |
| 06/14/22 | 15:16:30 | 3.86833 | | 4017.51 | -115.40 | 107.00 | |
| 06/14/22 | 15:23:18 | 3.98167 | | 4017.36 | -115.55 | 107.07 | |
| 06/14/22 | 15:30:15 | 4.09750 | | 4017.21 | -115.70 | 107.13 | |
| | | - | - | | | | |



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022

Gauge Depth: 7572 ft
Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 psi

Gauge OD: 1.2500"

| | Real | Delta | | | Delta | | |
|-----------|----------|----------|------|----------------------|----------|--------|----------|
| Test Date | Time | Time | WHP | BHP | ВНР | Тетр. | |
| mm/dd/yy | hh:mm:ss | hours | psia | psia | psi | °F | Comments |
| | | | | | | | |
| 06/14/22 | 15:37:27 | 4.21750 | | 4017.10 | -115.81 | 107.20 | |
| 06/14/22 | 15:44:51 | 4.34083 | | 4016.97 | -115.94 | 107.26 | |
| 06/14/22 | 15:52:27 | 4.46750 | | 4016.84 | -116.07 | 107.33 | |
| 06/14/22 | 16:00:15 | 4.59750 | | 4016.74 | -116.17 | 107.40 | |
| 06/14/22 | 16:08:18 | 4.73167 | | 4016.61 | -116.30 | 107.46 | |
| 06/14/22 | 16:16:36 | 4.87000 | | 4016.52 | -116.39 | 107.53 | |
| 06/14/22 | 16:25:09 | 5.01250 | | 4016.41 | -116.50 | 107.59 | |
| 06/14/22 | 16:33:54 | 5.15833 | | 4016.30 | -116.61 | 107.66 | |
| 06/14/22 | 16:42:57 | 5.30917 | | 4016.21 | -116.70 | 107.72 | |
| 06/14/22 | 16:52:15 | 5.46417 | | 4016.11 | -116.80 | 107.79 | |
| 06/14/22 | 17:01:51 | 5.62417 | | 4016.01 | -116.90 | 107.86 | |
| 06/14/22 | 17:11:42 | 5.78833 | | 4015.93 | -116.98 | 107.92 | |
| 06/14/22 | 17:21:48 | 5.95667 | | 4015.83 | -117.08 | 107.98 | |
| 06/14/22 | 17:32:15 | 6.13083 | | 4015.74 | -117.17 | 108.05 | |
| 06/14/22 | 17:43:00 | 6.31000 | | 4015.65 | -117.26 | 108.11 | |
| 06/14/22 | 17:54:03 | 6.49417 | | 4015.57 | -117.34 | 108.17 | |
| 06/14/22 | 18:05:27 | 6.68417 | | 4015.49 | -117.42 | 108.24 | |
| 06/14/22 | 18:17:09 | 6.87917 | | 4015.39 | -117.52 | 108.30 | |
| 06/14/22 | 18:29:12 | 7.08000 | | 4015.30 | -117.61 | 108.36 | |
| 06/14/22 | 18:41:36 | 7.28667 | | 4015.23 | -117.68 | 108.42 | |
| 06/14/22 | 18:54:21 | 7.49917 | | 4015.14 | -117.77 | 108.48 | |
| 06/14/22 | 19:07:30 | 7.71833 | | 4015.06 | -117.85 | 108.54 | |
| 06/14/22 | 19:21:00 | 7.94333 | | 4014. 9 9 | -117.92 | 108.60 | |
| 06/14/22 | 19:34:57 | 8.17583 | | 4014.91 | -118.00 | 108.66 | |
| 06/14/22 | 19:49:15 | 8.41417 | | 4014.84 | -118.07 | 108.72 | |
| 06/14/22 | 20:04:00 | 8.66000 | | 4014.77 | -118.14 | 108.78 | |
| 06/14/22 | 20:19:12 | 8.91333 | | 4014.68 | -118.23 | 108.84 | |
| 06/14/22 | 20:34:48 | 9.17333 | | 4014.59 | -118.32 | 108.89 | |
| 06/14/22 | 20:50:51 | 9.44083 | | 4014.51 | -118.40 | 108.94 | |
| 06/14/22 | 21:07:24 | 9.71667 | | 4014.46 | -118.45 | 108.97 | |
| 06/14/22 | 21:24:27 | 10.00083 | | 4014.40 | -118.51 | 109.01 | |
| 06/14/22 | 21:41:57 | 10.29250 | | 4014.33 | -118.58 | 109.05 | |
| 06/14/22 | 22:00:00 | 10.59333 | | 4014.27 | -118.64 | 109.08 | |
| 06/14/22 | 22:18:33 | 10.90250 | | 4014.19 | -118.72 | 109.12 | |
| 06/14/22 | 22:37:39 | 11.22083 | | 4014.11 | -118.80 | 109.15 | |
| 06/14/22 | 22:57:18 | 11.54833 | | 4014.03 | -118.88 | 109.19 | |
| 06/14/22 | 23:17:33 | 11.88583 | | 4013.96 | -118.95 | 109.23 | |
| 06/14/22 | 23:38:21 | 12.23250 | | 4013.88 | -119.03 | 109.27 | |
| | | | | | <u>-</u> | | |



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022

Gauge Depth: 7572 ft
Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 psi
Gauge OD: 1.2500"

| | Real | Delta | | | Delta | | |
|-----------|----------|----------|------|---------|----------|--------|----------|
| Test Date | Time | Time | WHP | BHP | ВНР | Temp. | |
| mm/dd/yy | hh:mm:ss | hours | psia | psia | psi | °F ¯ | Comments |
| | | | | | | | |
| 06/14/22 | 23:59:48 | 12.59000 | | 4013.80 | -119.11 | 109.32 | |
| 06/15/22 | 00:21:51 | 12.95750 | | 4013.73 | -119.18 | 109.36 | |
| 06/15/22 | 00:44:33 | 13.33583 | | 4013.67 | -119.24 | 109.41 | |
| 06/15/22 | 01:07:54 | 13.72500 | | 4013.59 | -119.32 | 109.46 | |
| 06/15/22 | 01:31:57 | 14.12583 | | 4013.53 | -119.38 | 109.50 | |
| 06/15/22 | 01:56:42 | 14.53833 | | 4013.45 | -119.46 | 109.54 | |
| 06/15/22 | 02:22:09 | 14.96250 | | 4013.37 | -119.54 | 109.58 | |
| 06/15/22 | 02:48:24 | 15.40000 | | 4013.30 | -119.61 | 109.62 | |
| 06/15/22 | 03:15:21 | 15.84917 | | 4013.23 | -119.68 | 109.66 | |
| 06/15/22 | 03:43:09 | 16.31250 | | 4013.19 | -119.72 | 109.69 | |
| 06/15/22 | 04:11:42 | 16.78833 | | 4013.16 | -119.75 | 109.72 | |
| 06/15/22 | 04:41:06 | 17.27833 | | 4013.11 | -119.80 | 109.76 | |
| 06/15/22 | 05:11:24 | 17.78333 | | 4013.06 | -119.85 | 109.79 | |
| 06/15/22 | 05:42:33 | 18.30250 | | 4012.99 | -119.92 | 109.82 | |
| 06/15/22 | 06:14:36 | 18.83667 | | 4012.93 | -119.98 | 109.85 | |
| 06/15/22 | 06:47:36 | 19.38667 | | 4012.86 | -120.05 | 109.88 | |
| 06/15/22 | 07:21:36 | 19.95333 | | 4012.79 | -120.12 | 109.91 | |
| 06/15/22 | 07:56:33 | 20.53583 | | 4012.74 | -120.17 | 109.94 | |
| 06/15/22 | 08:32:30 | 21.13500 | | 4012.66 | -120.25 | 109.98 | |
| 06/15/22 | 09:09:33 | 21.75250 | | 4012.61 | -120.30 | 110.03 | |
| 06/15/22 | 09:47:39 | 22.38750 | | 4012.60 | -120.31 | 110.09 | |
| 06/15/22 | 10:26:54 | 23.04167 | | 4012.55 | -120.36 | 110.14 | |
| 06/15/22 | 11:07:15 | 23.71417 | | 4012.49 | -120.42 | 110.19 | |
| 06/15/22 | 11:48:48 | 24.40667 | | 4012.41 | -120.50 | 110.27 | |
| 06/15/22 | 12:31:33 | 25.11917 | | 4012.36 | -120.55 | 110.35 | |
| 06/15/22 | 13:15:33 | 25.85250 | | 4012.29 | -120.62 | 110.43 | |
| 06/15/22 | 14:00:51 | 26.60750 | | 4012.24 | -120.67 | 110.50 | |
| 06/15/22 | 14:47:30 | 27.38500 | | 4012.21 | -120.70 | 110.57 | |
| 06/15/22 | 15:35:27 | 28.18417 | | 4012.25 | -120.66 | 110.64 | |
| 06/15/22 | 16:24:51 | 29.00750 | | 4012.26 | -120.65 | 110.69 | |
| 06/15/22 | 17:15:39 | 29.85417 | | 4012.23 | -120.68 | 110.75 | |
| 06/15/22 | 18:07:57 | 30.72583 | | 4012.19 | -120.72 | 110.80 | |
| 06/15/22 | 19:01:48 | 31.62333 | | 4012.16 | -120.75 | 110.86 | |
| 06/15/22 | 19:57:12 | 32.54667 | | 4012.15 | -120.76 | 110.90 | |
| 06/15/22 | 20:54:12 | 33.49667 | | 4012.14 | -120.77 | 110.95 | |
| 06/15/22 | 21:52:54 | 34.47500 | | 4012.19 | -120.72 | 110.99 | |
| 06/15/22 | 22:53:18 | 35.48167 | | 4012.19 | -120.72 | 111.03 | |
| 06/15/22 | 23:55:27 | 36.51750 | | 4012.12 | -120.79 | 111.05 | |
| | | | | | <u>-</u> | | |



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022 Gauge Depth: 7572 ft

Gauge Type: Electronic Gauge SN: SP-224831 Gauge Range: 10000 psi

Gauge OD: 1.2500"

Real Delta Delta WHP Test Date Time **BHP BHP** Time Temp. ٥F mm/dd/yy hh:mm:ss hours psia psia Comments psi 06/16/22 00:59:27 37.58417 4012.07 -120.84 111.01 -120.88 06/16/22 02:05:18 38.68167 4012.03 111.00 06/16/22 03:13:03 39.81083 4012.07 -120,84 111.01 06/16/22 04:22:48 40.97333 4012.10 -120.81 111.02 06/16/22 05:34:36 42.17000 4012.12 -120.79 111.03 06/16/22 06:48:30 43.40167 4012.20 -120.71 111.02 4012,27 111.03 Casing Pressure = 760 psig. 06/16/22 07:28:33 44.06917 -120.6406/16/22 07:28:36 44.07000 4012.27 -120.64 111.03 Ended BHP Falloff Test. 06/16/22 07:28:39 44.07083 4012.26 111.03 Pressured up lubricator. 06/16/22 07:28:42 44.07167 4012.20 111.03 RIH with slickline to retrieve gauge. 06/16/22 07:29:00 44.07667 4011.52 111.05 06/16/22 07:30:00 44.09333 4011.57 111.06 44.17667 06/16/22 07:35:00 4011.59 111.09 06/16/22 07:40:00 44.26000 4011.60 111.11 06/16/22 07:45:00 44.34333 4011.61 111.13 06/16/22 07:50:00 44.42667 4011.61 111,14 06/16/22 07:55:00 44.51000 4011.62 111.15 06/16/22 08:00:00 44.59333 4011.62 111.16 06/16/22 08:05:00 44.67667 4011.61 111.17 06/16/22 08:10:00 44.76000 4011.62 111.18 06/16/22 08:11:00 44.77667 4011.61 111.18 06/16/22 08:12:00 44.79333 4011.62 111.18 08:13:00 4011.62 111.18 06/16/22 44.81000 06/16/22 08:13:09 44.81250 4011.62 111.18 POOH making static gradient stops. 44.82667 3980.65 06/16/22 08:14:00 111.37 06/16/22 08:15:00 44.84333 3943.95 110.99 06/16/22 08:16:00 44.86000 3901.99 110.73 06/16/22 08:17:00 44.87667 3862.26 110.15 06/16/22 44.89333 108.89 08:18:00 3819.62 06/16/22 08:19:00 44.91000 3778.93 108.11 06/16/22 08:19:24 44.91667 3764.03 108.05 Arrived at 7000 ft stop. 06/16/22 08:20:00 44.92667 3763.82 108.01 08:21:00 44.94333 3763.79 108.01 06/16/22 108.01 06/16/22 08:22:00 44.96000 3763.79 06/16/22 08:23:00 44.97667 3763.78 108.00 06/16/22 08:24:00 44.99333 3763.78 108.00 06/16/22 08:24:24 45.00000 3763.79 108.00 Left 7000 ft stop. 06/16/22 08:25:00 45.01000 3743.70 108.02



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022

Gauge Depth: 7572 ft
Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 psi
Gauge OD: 1.2500"

| | Real | Delta | | | Delta | | |
|--|----------|--|------|--|-------|----------------------------------|--------------------------|
| Test Date | Time | Time | WHP | ВНР | BHP | Temp. | |
| mm/dd/yy | hh:mm:ss | hours | psia | psia | psi | °F ¯ | Comments |
| | | | | | | | |
| 06/16/22 | 08:26:00 | 45.02667 | | 3707.33 | | 107.69 | |
| 06/16/22 | 08:27:00 | 45.04333 | | 3667.62 | | 107.42 | |
| 06/16/22 | 08:28:00 | 45.06000 | | 3628.06 | | 107.19 | |
| 06/16/22 | 08:29:00 | 45.07667 | | 3588.19 | | 106.86 | |
| 06/16/22 | 08:30:00 | 45.09333 | | 3548.98 | | 106.31 | |
| 06/16/22 | 08:31:00 | 45.11000 | | 3508.68 | | 105.73 | |
| 06/16/22 | 08:32:00 | 45.12667 | | 3467.69 | | 105.34 | |
| 06/16/22 | 08:33:00 | 45.14333 | | 3423.72 | | 104.99 | |
| 06/16/22 | 08:34:00 | 45.16000 | | 3379.13 | | 103.93 | |
| 06/16/22 | 08:35:00 | 45.17667 | | 3334.04 | | 103.36 | |
| 06/16/22 | 08:35:06 | 45.17833 | | 3331.59 | | | Arrived at 6000 ft stop. |
| 06/16/22 | 08:36:00 | 45.19333 | | 3331.66 | | 103.39 | |
| 06/16/22 | 08:37:00 | 45.21000 | | 3331.68 | | 103.40 | |
| 06/16/22 | 08:38:00 | 45.22667 | | 3331.67 | | 103.40 | |
| 06/16/22 | 08:39:00 | 45.24333 | | 3331.66 | | 103.40 | |
| 06/16/22 | 08:40:00 | 45.26000 | | 3331.66 | | 103.40 | |
| 06/16/22 | 08:40:06 | 45.26167 | | 3331.69 | | | Left 6000 ft stop. |
| 06/16/22 | 08:41:00 | 45.27667 | | 3294.39 | | 103.13 | |
| 06/16/22 | 08:42:00 | 45.29333 | | 3250.01 | | 102.85 | |
| 06/16/22 | 08:43:00 | 45.31000 | | 3206.05 | | 102.22 | |
| 06/16/22 | 08:44:00 | 45.32667 | | 3161.76 | | 101.81 | |
| 06/16/22 | 08:45:00 | 45.34333 | | 3117.15 | | 101.32 | |
| 06/16/22 | 08:46:00 | 45.36000 | | 3072.62 | | 100.86 | |
| 06/16/22 | 08:47:00 | 45.37667 | | 3028.21 | | 100.30 | |
| 06/16/22 | 08:48:00 | 45.39333 | | 2983.48 | | 99.76 | |
| 06/16/22 | 08:49:00 | 45.41000 | | 2938.85 | | 99.24 | |
| 06/16/22 | 08:49:57 | 45.42583 | | 2899.88 | | 98.75 | Arrived at 5000 ft stop. |
| 06/16/22 | 08:50:00 | 45.42667 | | 2899.83 | | 98.73 | |
| 06/16/22 | 08:51:00 | 45.44333 | | 2899.46 | | 98.67 | |
| 06/16/22 | 08:52:00 | 45.46000 | | 2899.46 | | 98.67 | |
| 06/16/22 | 08:53:00 | 45.47667 | | 2899.45 | | 98.66 | |
| 06/16/22 | 08:54:00 | 45.49333 | | 2899.45 | | 98.66 | |
| 06/16/22 | 08:54:57 | 45.50917 | | 2899.44 | | | Left 5000 ft stop. |
| 06/16/22 | 08:55:00 | 45.51000 | | 2899.20 | | 98.66 | |
| 06/16/22 | 08:56:00 | 45.52667 | | 2857.89 | | 98.29 | |
| | 08:57:00 | | | | | | |
| | | | | | | | |
| 06/16/22 | 08:59:00 | 45.57667 | | 2730.35 | | 9 7.11 | |
| 06/16/22 06/16/22 06/16/22 06/16/22 | | 45.52667 45.54333 45.56000 45.57667 | | 2857.89 2815.17 2772.74 2730.35 | | 98.29 97.85 97.46 97.11 | |



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022 Gauge Depth: 7572 ft

Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 psi

Gauge OD: 1.2500"

Real Delta Delta WHP Test Date Time **BHP BHP** Time Temp. ٥F mm/dd/yy hh:mm:ss hours psia Comments psia psi 06/16/22 09:00:00 45.59333 2687.78 96.79 96.36 06/16/22 09:01:00 45.61000 2645.19 06/16/22 09:02:00 45.62667 2602.27 95.93 06/16/22 09:03:00 45.64333 2559.31 95.65 06/16/22 09:04:00 45.66000 2516.52 95.14 06/16/22 09:05:00 45.67667 2473.49 94.75 2467.34 06/16/22 09:05:15 45.68083 94.66 Arrived at 4000 ft stop. 94.62 06/16/22 09:06:00 45.69333 2467.11 06/16/22 09:07:00 45.71000 2467.09 94.62 06/16/22 09:08:00 45.72667 2467.10 94.62 06/16/22 09:09:00 45.74333 2467.10 94.61 06/16/22 09:10:00 45.76000 2467.10 94.61 06/16/22 09:10:12 45.76333 2467.09 94.61 | Left 4000 ft stop. 06/16/22 09:11:00 45.77667 2433.95 94.40 06/16/22 09:12:00 45.79333 2383.73 93.94 06/16/22 09:13:00 45.81000 2331.02 93.67 93.23 06/16/22 09:14:00 45.82667 2279.34 06/16/22 09:15:00 45.84333 2226.82 92.83 06/16/22 09:16:00 45.86000 2177.38 92.46 06/16/22 09:17:00 45.87667 2126.88 92.09 06/16/22 09:18:00 45.89333 2075.47 91.77 06/16/22 09:18:51 45.90750 2035.67 91.35 Arrived at 3000 ft stop. 91.29 06/16/22 09:19:00 45.91000 2035.25 06/16/22 09:20:00 45.92667 2035.01 91.25 06/16/22 09:21:00 45.94333 2035.02 91.24 06/16/22 09:22:00 45.96000 2035.02 91.24 91.24 06/16/22 09:23:00 45.97667 2035.01 91.23 Left 3000 ft stop. 09:23:51 06/16/22 45.99083 2035.01 09:24:00 45.99333 2030.94 91.24 06/16/22 06/16/22 09:25:00 46.01000 1991.94 91.00 06/16/22 09:26:00 46.02667 1950.55 90.74 06/16/22 09:27:00 46.04333 1907.33 90.42 09:28:00 46.06000 1864.08 06/16/22 90.13 06/16/22 09:29:00 46.07667 1820.00 89.21 06/16/22 09:30:00 46.09333 1775.85 88.86 06/16/22 09:31:00 46.11000 1732.25 88.33 06/16/22 09:32:00 46.12667 1687.96 87.95 06/16/22 09:33:00 46.14333 1644.02 87.76



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022

Gauge Depth: 7572 ft
Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 psi
Gauge OD: 1.2500"

| | Real | Delta | | | Delta | | |
|-----------|----------|----------|------|---------|-------|-------|--------------------------|
| Test Date | Time | Time | WHP | ВНР | BHP | Temp. | |
| mm/dd/yy | hh:mm:ss | hours | psia | psia | psi | °F ¯ | Comments |
| | | | | | | | |
| 06/16/22 | 09:34:00 | 46.16000 | | 1604.33 | | 87.53 | Arrived at 2000 ft stop. |
| 06/16/22 | 09:35:00 | 46.17667 | | 1603.44 | | 87.44 | |
| 06/16/22 | 09:36:00 | 46.19333 | | 1603.43 | | 87.44 | |
| 06/16/22 | 09:37:00 | 46.21000 | | 1603.44 | | 87.44 | |
| 06/16/22 | 09:38:00 | 46.22667 | | 1603.43 | | 87.43 | |
| 06/16/22 | 09:39:00 | 46.24333 | | 1603.42 | | 87.43 | |
| 06/16/22 | 09:39:03 | 46.24417 | | 1603.43 | | 87.43 | Left 2000 ft stop. |
| 06/16/22 | 09:40:00 | 46.26000 | | 1565.04 | | 87.48 | |
| 06/16/22 | 09:41:00 | 46.27667 | | 1521.57 | | 87.07 | |
| 06/16/22 | 09:42:00 | 46.29333 | | 1477.74 | | 86.70 | |
| 06/16/22 | 09:43:00 | 46.31000 | | 1434.07 | | 86.16 | |
| 06/16/22 | 09:44:00 | 46.32667 | | 1390.38 | | 85.90 | |
| 06/16/22 | 09:45:00 | 46.34333 | | 1346.96 | | 85.76 | |
| 06/16/22 | 09:46:00 | 46.36000 | | 1302.67 | | 85.26 | |
| 06/16/22 | 09:47:00 | 46.37667 | | 1258.23 | | 84.93 | |
| 06/16/22 | 09:48:00 | 46.39333 | | 1215.17 | | 84.68 | |
| 06/16/22 | 09:49:00 | 46.41000 | | 1172.77 | | 83.82 | |
| 06/16/22 | 09:49:03 | 46.41083 | | 1172.38 | | 83.80 | Arrived at 1000 ft stop. |
| 06/16/22 | 09:50:00 | 46.42667 | | 1172.03 | | 83.75 | |
| 06/16/22 | 09:51:00 | 46.44333 | | 1172.05 | | 83.75 | |
| 06/16/22 | 09:52:00 | 46.46000 | | 1172.06 | | 83.74 | |
| 06/16/22 | 09:53:00 | 46.47667 | | 1172.06 | | 83.74 | |
| 06/16/22 | 09:54:00 | 46.49333 | | 1172.06 | | 83.74 | |
| 06/16/22 | 09:54:09 | 46.49583 | | 1172.07 | | 83.74 | Left 1000 ft stop. |
| 06/16/22 | 09:55:00 | 46.51000 | | 1134.79 | | 83.86 | |
| 06/16/22 | 09:56:00 | 46.52667 | | 1089.80 | | 83.47 | |
| 06/16/22 | 09:57:00 | 46.54333 | | 1044.18 | | 84.27 | |
| 06/16/22 | 09:58:00 | 46.56000 | | 998.08 | | 83.97 | |
| 06/16/22 | 09:59:00 | 46.57667 | | 955.31 | | 81.27 | |
| 06/16/22 | 10:00:00 | 46.59333 | | 904.40 | | 79.09 | |
| 06/16/22 | 10:01:00 | 46.61000 | | 855.52 | | 81.62 | |
| 06/16/22 | 10:02:00 | 46.62667 | | 821.66 | | 82.79 | |
| 06/16/22 | 10:03:00 | 46.64333 | | 782.63 | | 83.35 | |
| 06/16/22 | 10:04:00 | 46.66000 | | 749.23 | | 80.31 | |
| 06/16/22 | 10:04:48 | 46.67333 | | 740.82 | | 77.62 | Gauge at surface. |
| 06/16/22 | 10:05:00 | 46.67667 | | 740.64 | | 77.53 | |
| 06/16/22 | 10:06:00 | 46.69333 | | 740.50 | | 77.35 | |
| 06/16/22 | 10:07:00 | 46.71000 | | 740.43 | | 77.20 | |
| | | | | | | | |



1000 Fesco Ave. - Alice, Texas 78332



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: 06/14 - 06/16/2022

Gauge Depth: 7572 ft
Gauge Type: Electronic
Gauge SN: SP-224831
Gauge Range: 10000 psi

Gauge OD: 1.2500"

| Test Date | Real Time | Delta Time | WHP | ВНР | Delta BHP | Тетр. | |
|-----------|--------------|---------------|------|--------|--------------|-------|----------------------------|
| mm/dd/yy | hh:mm:ss | hours | psia | psia | psi | °F ¯ | Comments |
| 06/16/22 | 10:08:00 | 46.72667 | | 740.41 | | 77.17 | |
| 06/16/22 | 10:09:00 | 46.74333 | | 740.42 | | 77.14 | |
| 06/16/22 | 10:09:09 | 46.74583 | 740 | 740.41 | | 77.14 | Surface stop. |
| 06/16/22 | 10:10:00 | 46.76000 | | 726.39 | | 81.48 | |
| 06/16/22 | 10:11:00 | 46.77667 | | 732.82 | | 82.98 | |
| 06/16/22 | 10:12:00 | 46.79333 | | 732.81 | | 83.21 | |
| 06/16/22 | 10:13:00 | 46.81000 | | 732.10 | | 83.47 | |
| 06/16/22 | 10:13:21 | 46.81583 | | 729.96 | | 83.54 | Pressured down lubricator. |
| 06/16/22 | 10:14:00 | 46.82667 | | -1.57 | | 83.53 | |
| 06/16/22 | 10:15:00 | 46.84333 | | -2.30 | | 83.68 | |
| 06/16/22 | 10:16:00 | 46.86000 | | -2.38 | | 83.97 | |
| 06/16/22 | 10:17:00 | 46.87667 | | 2.23 | | 84.48 | |
| 06/16/22 | 10:17:36 | 46.88667 | | 15.16 | | 85.42 | Test completed. |
| 06/16/22 | 10:18:00 | 46.89333 | | 15.84 | | 81.86 | |
| 06/16/22 | 10:19:00 | 46.91000 | | 9.35 | | 79.32 | |
| 06/16/22 | 10:20:00 | 46.92667 | | 11.36 | | 80.50 | |
| 06/16/22 | 10:21:00 | 46.94333 | | 12.34 | | 80.29 | |
| 06/16/22 | 10:22:00 | 46.96000 | | 13.25 | | 80.05 | 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 44.1 hr BHP Falloff Test. POOH making static gradient stops. RDMO.

Certified: FESCO, Ltd. - Midland, TX

By: Michael Carnes

Job No.: J202206161401.001A District Manager - (432) 332-3211

Attachment 5 Falloff Test Summary



DW No. 3 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 cpFluid Compressibility (cf)2.70E-06 psi-1Formation Volume Factor (B)1.00 bbl/stb

Model Parameters

Wellbore Storage Changing hegeman
Well Model Vertical limited entry

Reservoir Model Homogenous

Boundary Model Infinite

Analysis Results

Well & Wellbore

Initial Wellbore Storage
Final Wellbore Storage

D_t [changing storage]

Skin

1.89E-01 bbl/psi
7.03E-01 bbl/psi
1.45E-01 hr
20.6

Reservoir & Boundary

Permeability (k) 463 md

Transmissibility 144,601 md-ft/cp

Radius of Investigation (r_i) 5,356 ft Perforation Length 76.9 ft k_z/k_r 3.47E-04

Attachment 6 AOR Well List



| MATERIAL PROPERTY AND ADMINISTRATION OF THE PROPERT | Operator Name | Well Name | API | Туре | Status | Surface Location | Latitude | Longitude | Spud Date | Plug Date |
|--|--|---|------------------------------|------|---|------------------------------|------------------------|-------------|------------------------|-------------------------|
| ## ACCOUNTS A. P. M. P | APACHE CORPORATION BP AMERICA PRODUCTION COMPANY | | 30-015-21825 30-015-22569 | Oil | | | | | - | 12/27/2011 |
| AND COMPANY OF THE ADM AND ADM | APACHE CORPORATION | EMPIRE ABO UNIT #141A | 30-015-22051 | | Plugged (site released) | K-02-185-27E | 32.772911 | -104.249748 | - | 12/21/2011 |
| THE REPORT OF THE PARTY OF THE | APACHE CORPORATION | EMPIRE ABO UNIT #143A | 30-015-22896 | OII | Active | K-02-185-27E | 32.774147 | -104.249428 | | |
| AMERICA STREET, CALLES AND ADMINISTRATION OF THE AMERICAN STREET, CALLES AND ADMINISTRATION OF T | APACHE CORPORATION BP AMERICA PRODUCTION COMPANY | | | | | | | | 4/29/1959 | 12/22/2008 |
| Medical Contents | APACHE CORPORATION | EMPIRE ABO UNIT #155 | 30-015-22885 | Oil | Plugged (site released) | O-02-18S-27E | 32.771999 | -104.247208 | | 1/3/2012 |
| ### AND DESCRIPTION OF THE ACCUSATION AND ADMINISTRATION OF THE ACCUSATION AND ADMINISTRATION OF THE ACCUSATION AND ADMINISTRATION AND ADMINISTRAT | BP AMERICA PRODUCTION COMPANY | RIVERWOLF UNIT #004 | 30-015-00720 | Oil | Plugged (site released) | B-02-185-27E | 32.780655 | -104.246132 | - | 12/4/2008 |
| SCHOOL Company Compa | BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #015A | 30-015-00731 | Oil | | O-02-18S-27E | 32.770954 | -104.247047 | - | 2/12/2009 |
| STATE OF COLUMN STATE OF C | | | | | Plugged (site released) Plugged (site released) | | | | - | 10/30/2008 7/10/2002 |
| ## ACC COMPANY NO. CALL PLAN COLUMN AND ADDRESS CALL PROPERTY CALL PROPE | REMNANT OIL OPERATING, LLC | SOUTH RED LAKE II UNIT #038 | 30-015-00737 | Oil | Active | B-02-185-27E | 32.780888 | -104.246010 | 4/6/1948 | - |
| MARCH CORPORATION Company Comp | APACHE CORPORATION | SCBP STATE #001 | 30-015-32946 | Oil | Active | J-02-18S-27E | 32.775215 | -104.246040 | 3/14/2005 | - |
| Miller M | | | | | | | | | - | 10/7/2009 1/6/2012 |
| Company Comp | PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL#039 | | OII | | | | -104.243958 | | 11/1/1990 |
| PRINCE CONTROLLED CONTROLLE | PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL#001 | 30-015-00726 | OII | Plugged (site released) | L-02-18S-27E | 32.774670 | -104.242800 | | 8/25/1980 |
| Application | MACK ENERGY CORP BP AMERICA PRODUCTION COMPANY | | | | | | | | - | 3/7/2008 2/23/2009 |
| PARTICULATION PARTICULAR SERVICE PARTICULAR S | APACHE CORPORATION APACHE CORPORATION | | | | | | | | | - |
| The Company of Compa | BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #016C | 30-015-00869 | Oil | Plugged (site released) | A-11-18S-27E | 32.768227 | -104.242706 | | 1/24/2007 |
| RECOMMEND 150 | PRE-ONGARD WELL OPERATOR | | | Oil | Plugged (site released) | | | -104.239739 | | 12/27/1943 |
| ### PROFESSOR CONTROLLED 361-1420 0.0 Anne 2-01-1421 3-77,001 1-01-1421 1-01 | | | | | | | | | 2/28/1948 | - |
| ### APPEN CONTROLL Septiment Septiment | APACHE CORPORATION | AAO FEDERAL #022 | 30-015-42335 | Oil | Active | D-01-185-27E | 32.781200 | -104.239700 | 7/27/2014 | - |
| See Profess Profess See Profess See Profess See Profess See Profess See | APACHE CORPORATION | EMPIRE ABO UNIT #171 | 30-015-22815 | Oil | Plugged (site released) | M-01-18S-27E | 32.770962 | -104.239525 | | 10/24/2019 |
| ### CREAD ALL COTTAGES PR. COMPAND WILLIAMS 2001-20025 10 Pages Clint Protected 0.112-107. 3.075200 10.110, 10.77 10.07520 10.110, 10.07520 10.11 | Spur Energy Partners LLC | | | | Active | M-36-17S-27E | | | 4/27/2013 | - |
| ### CREADER AND LOCATIONS PRO-CREADER VILLE 100-2006 170-2007 170-2006 170-2007 170-2006 170-2007 170-2006 170-2007 170-2006 170-2007 170-2006 170-2007 170-2006 170-2007 170-2006 170-2007 170-200 | PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #002 | 30-015-20535 | OII | Plugged (site released) | D-12-18S-27E | 32.768208 | -104.239098 | 11/12/1971 | 8/4/1980 |
| AMERICA CROSSICATION AND PRIVATE AND PRIVA | PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #003 | 30-015-23115 | Oil | Plugged (site released) | D-12-18S-27E | 32.768211 | -104.239342 | 12/28/1979 | 2/7/1983 |
| IN PROPERTY CONTINUES AND ADDRESS OF THE CONT | APACHE CORPORATION | AAO FEDERAL #009 | 30-015-34387 | Oil | Active | L-01-185-27E | 32.774551 | -104.238609 | | - |
| ## CREADER MILL CONTROLL Price CREATER MILL CONTROLL Price CREATER MILL CONTROLL Price CREADER MILL CONTROLL Price CREATER MILL CONTROLL Price CRE | PRE-ONGARD WELL OPERATOR BP AMERICA PRODUCTION COMPANY | | | | | | | | 3/23/1959 | 2/26/1987 3/19/2009 |
| PAMISTON COMPANY IMPRIL ADD UNIT 607 19-101-1070 1 | PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #017 | 30-015-00712 | OII | Plugged (site released) | D-01-185-27E | 32.781582 | -104.238609 | | 2/26/1987 |
| LINGSPRINGER LOSID AMPRILO D. A. | BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #017B | 30-015-00705 | OII | Plugged (site released) | M-01-18S-27E | 32.771828 | -104.238472 | - | 7/21/2004 |
| ## AMERICA COPICIDATION AMERICAN PROPERTY | APACHE CORPORATION LLI VENTURES, LLC DBA MARKER OIL & GAS | STATE #006 | | | Active | | | -104.237816 | | |
| See Content Prince Land | APACHE CORPORATION | AAO FEDERAL #005 | 30-015-32959 | Oil | Plugged (site released) | E-01-18S-27E | 32.778816 | -104.237885 | 11/4/2003 | 6/14/2017 |
| ## MARCE CERTIFACTION AND PERSONAL PROPERTY AND PROPERTY | Spur Energy Partners LLC | BIG BOY STATE #004 | 30-015-40429 | Oil | Active | M-36-175-27E | 32.784710 | -104.238190 | 8/28/2014 | - |
| ## MACH COMPAGNION AND TERDAL ROTS BOOL-1989 D. 10 Active MACH COMPAGNION AND TERDAL ROTS BOOL-1989 D. 10 Active MACH COMPAGNION MACH C | | | | | | | 32.759155 32.774590 | | | 1/14/1987 |
| AMADIVE NETWORKS COMPTION FERREAL ROSS DOI:10.1034 | APACHE CORPORATION | AAO FEDERAL #029 | 30-015-42339 | Oil | Active | M-01-185-27E | 32.770084 | -104.237366 | 6/16/2014 | - |
| REPARTICAL PRODUCTION COMMANY MARKE GEOPERATION MARKE AGE OF MARKE A | HARLOW ENTERPRISES LLC | COMSTOCK FEDERAL #003 | 30-015-25545 | Oil | Active | M-12-185-27E | 32.757340 | -104.237495 | 5/19/1986 | |
| ## MACHE GOPCHATION MAPPE AGO UNIT (1895 9-011-22005 C) Phageef (in released) 4-03-18-27E 32-77-38P 1-03-1257-6 37-73-8 1-03-1257-6 37-73-8 1-03-1257-6 37-73-8 1-03-1257-6 37-73-8 1-03-1257-6 37-73-8 1-03-1257-6 37-73-8 1-03-1257-6 37-73-8 1-03-1257-6 37-73-8 1-03-1257-6 37-73-8 1-03-1257-6 37-73-8 1-03-1257-6 37-73-8 | APACHE CORPORATION BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #017 EMPIRE ABO UNIT #181 | | | | | | | 2/5/1960 | 4/17/2003 |
| ARTHAND (S) COMPANY AND TREATMENT (S) 2001-2007) OI Plaged (Interfedent) H-12-18-277, 12-772-19, 100-22-30-44, 1-12-18-277, 12-772-19, 100-22-30-44, 1-12-18-277, 12-772-19, 100-22-30-44, 1-12-18-277, 12-772-19, 100-22-30-44, 1-12-18-277, 12-772-19, 100-22-30-44, 1-12-18-277, 12-772-19, 100-22-30-44, 1-12-18-277, 12-772-19, 100-22-30-42, 1-12-18-277, 12-772-19, 100-22-30-42, 1-12-18-277, 12-772-19, 100-22-30-42, 1-12-18-277, 12-772-19, 100-22-30-42, 1-12-18-277, 12-772-19, 100-22-30-42, 1-12-18-277, 12-772-19, 100-22-30-42, 1-12-18-277, 12-772-19, 100-22-30-42, 1-12-18-277, 12-772-19, 100-22-30-42, 1-12-18-277, 12-772-19, 100-22-30-42, 1-12-18-277, 12-772-19, 100-22-30-42, 1-12-18-277, 12-772-30, 100-22-30-30, 1-12-18-27, 12-772-30, 100-22-30-30, 1-12-18-27, 12-772-30, 100-22-30-30, 1-12-18-27, 12-772-30, 100-22-30-30, 1-12-18-27, 12-772-30, 100-22-30-30, 1-12-18-27, 12-772-30, 100-22-30-30, 1-12-18-27, 12-772-30, 100-22-30-30, 1-12-18-27, 12-772-30, 100-22-30-30, 1-12-18-27, 12-772-30, 100-22-30-30, 1-12-18-27, 12-772-30, 100-22-30-30, 1-12-18-27, 12-772-30, 100-22-30-30, 1-12-18-27, 12-772-30, 100-22-30-30, 100-22-30-30, 100-22-30-30, 100-22-30-30, 100-22-30-30, 100-22-30-30, 100-22-30-30, 100-22-30-30, 100-22-30-30, 100-22-30- | APACHE CORPORATION | EMPIRE ABO UNIT #183 | 30-015-22096 | | Plugged (not released) | | | | | 4/27/2021 |
| PAMERIC GEORGATION COMPANY EMPERA 400 UNIT 65180 30-013-2073 OI Plaged (files released) N-013-5276 377-3293 10-0235288 - 972707 | EASTLAND OIL CO | COMSTOCK FEDERAL #010 | 30-015-26017 | OII | Plugged (site released) | N-12-18S-27E | 32.757313 | -104.235344 | | 1/23/2003 |
| | BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #018D | | | | | | | 6/10/2014 - | 9/27/2003 |
| AMORIS CORPORATION AND TREAMS (MD 12 30-515-00777 AND TREAMS (MD 12 30-515-0077 AND TREAMS (MD 12 30-515-0077 | HARLOW ENTERPRISES LLC | COMSTOCK FEDERAL #002 | 30-015-25201 | | Active | K-12-185-27E | | -104.234932 | | - |
| AMACHI CORPORATION AND FREIDRAM 8013 30013-9077. AND FREIDRAM 8013 30013-9077. AND FREIDRAM 8013 30013-9077. AND FREIDRAM 8017 30013-42782 AND FREIDRAM 8017 30013-42782 AND FREIDRAM 8017 30013-42782 AND FREIDRAM 8017 AND FREIDR | APACHE CORPORATION | EMPIRE ABO UNIT #018B | 30-015-00707 | Oil | Plugged (site released) | K-01-185-27E | 32.774498 | -104.234215 | 4/23/1959 | 6/7/2017 |
| AMAGES CERPORATION AND FEDERAL REZT 19-01-12398 7/16/2014 | APACHE CORPORATION | AAO FEDERAL #006 | 30-015-34071 | Oil | | F-01-18S-27E | 32.777355 | -104.234322 | | - |
| AMPACHI CORPORATION AND FEDRMA MODIO AND FEDRM | APACHE CORPORATION APACHE CORPORATION | | | | | | | | | - |
| PAMERIC GORPOATON COMPANY LLC WOPW 803 30-015-2075 99/70-04 Acribe N-01-185-27E 32-778-121 10-04-233-292 12/72/1990 Acribe N-01-185-27E 32-778-121 10-04-233-292 Arcibe N-01-185-27E 32-778-121 Acribe N-01-185-27E 32 | APACHE CORPORATION | AAO FEDERAL #010 | 30-015-34576 | Oil | Active | K-01-185-27E | 32.774712 | -104.233635 | 6/2/2006 | - 2/0/2010 |
| AMACHE CORPORATION ADO FEDERAL ROIS 30-015-42026 OIL Achee C-0.185-27E 32.77813 -104.323185 -104.23325 -104.233 | BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #018 | 30-015-01218 | Oil | Plugged (site released) | N-36-17S-27E | 32.784214 | -104.233292 | | 9/9/2009 |
| AMACHE CORPORATION AMACHE | | | | | | | | | | |
| AMACHE CORPORATION EMPIRE ABO UNIT 1914 30-015-25275 Oil Active 1-12-18-5727 AACHE CORPORATION AAO FEDERAL 6028 30-015-25275 Oil Active N-112-18-5727 AACHE CORPORATION AAO FEDERAL 6028 30-015-25275 Oil Active N-112-18-5727 AACHE CORPORATION AAO FEDERAL 6028 30-015-25275 Oil Active N-10-18-5727 AACHE CORPORATION AAO FEDERAL 6028 30-015-25275 Oil Active N-10-18-5727 AACHE CORPORATION AAO FEDERAL 6028 30-015-26205 Oil Active N-10-18-5727 32-76938 AACHE CORPORATION EMPIRE ABO UNIT 1911 30-015-15352 Oil Active N-10-18-5727 AACHE CORPORATION EMPIRE ABO UNIT 1911 30-015-15352 Oil Active N-10-18-5727 AACHE CORPORATION AAO FEDERAL 6027 30-015-0207 AACHE CORPORATION AAO FEDERAL 6027 30-015-0207 AACHE CORPORATION AAO FEDERAL 6027 AAO FEDERAL 6027 AACHE CORPORATION AAO FEDERAL 6027 AACHE CORPORATION AAO FEDERAL 6027 AAO FEDERAL | APACHE CORPORATION | AAO FEDERAL #016 | 30-015-42026 | OII | Active | C-01-18S-27E | 32.779713 | -104.232758 | 3/20/2014 | - |
| APACHE CORPORATION AD FEDRAL ROS2 30.015-42358 OII Active NO.185-27E 32,769535 10.0232452 7/11/2014 - APACHE CORPORATION AD FEDRAL ROS5 30.015-42052 OII Active NO.185-27E 32,769535 10.0232452 7/11/2014 - APACHE CORPORATION EMPIRE ABO UNIT #191 30.015-15352 OII Plugged (lite released) G.01.185-27E 32,769417 10.02.31697 - 772/2014 - APACHE CORPORATION EMPIRE ABO UNIT #191 30.015-15352 OII Plugged (lite released) N.95-157-27E 32,76943 10.02.31097 27/41/2013 12/21/207 12/21/2 | APACHE CORPORATION | EMPIRE ABO UNIT #184 | 30-015-22559 | Oil | Plugged (site released) | K-01-18S-27E | 32.775333 | -104.232719 | | 7/18/2013 |
| AMORIS CORPORATION AND EEDERAL ROIS 30-015-42025 OII Acthe Pussed (after reference) G-01-18-5-27E 32-750182 -10-2331932 -17-231091 - | BILL L MILLER APACHE CORPORATION | | | | | | | -104.232452 | | |
| HARLOW_ENTERPRISES LIC COMSTOCK EBBRAL (#007 30-015-039874 Oil Active 1-12-188-2776 32-776498 -10-02-331078 27-18760 1-12-188-2776 -10-02-331078 27-18760 -10-02-331078 -10-02-331 | APACHE CORPORATION | AAO FEDERAL #015 | 30-015-42025 | Oil | Active | B-01-185-27E | 32.780182 | -104.231392 | | 7/22/2012 |
| PRE-ONGARD WELL 0FEATIOR PRE-ONGARD WELL 0005 39-015-20388 OII Plusged [after released] N-01-185-27E 32.77456 -104-231003 | HARLOW ENTERPRISES LLC | COMSTOCK FEDERAL #007 | 30-015-00874 | Oil | Active | J-12-18S-27E | 32.760883 | -104.231232 | | - |
| APACHE COMPORATION AND FEDERAL SWOP ROCI ACTIVE COMSTOCK FEDERAL ROOD 30-015-22738 OIL Active G-01-18-5-277 32-778-585 10-23-23073 Active G-01-18-5-277 32-778-585 10-23-23073 12/18/2011 | PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL #005 | 30-015-20388 | Oil | Plugged (site released) Plugged (site released) | N-01-18S-27E | 32.771736 | -104.231033 | | 12/21/2001 |
| Sour Energy Partners LLC BIG BOY STATE 8006 30-015-32354 Oil Active O-36-175-27E 32:786599 -104.230751 12/18/7011 -APACHE CORPORATION EMPIRE ABO UNIT #193 30-015-22557 Oil Plugged (not released) J-01-185-27E 32:775352 104.230721 13/97978 4/3/2007 4/3/2007 APACHE CORPORATION EMPIRE ABO UNIT #194 30-015-22558 Oil Plugged (not released) O-01-185-27E 32:77633 -104.230032 10/18/1978 4/3/2007 APACHE CORPORATION EMPIRE ABO UNIT #1013 30-015-01251 Oil Plugged (filte released) O-36-175-27E 32:785088 -104.230031 37/9/791 12/3/9/791 12/3/9/791 APACHE CORPORATION EMPIRE ABO UNIT #1013 30-015-010589 SVMD Plugged (filte released) O-36-175-27E 32:785088 -104.230003 10/7/1959 12/8/1960 APACHE CORPORATION EMPIRE ABO UNIT #1013 30-015-00769 Oil Plugged (filte released) O-36-175-27E 32:781460 -104.230003 -57/2/2/01 ACTIVE APACHE CORPORATION EMPIRE ABO UNIT #1013 30-015-00769 Oil Plugged (filte released) O-36-175-27E 32:781460 -104.230003 -57/2/2/01 ACTIVE APACHE CORPORATION | APACHE CORPORATION HARLOW ENTERPRISES LLC | AAO FEDERAL SWD #001 | | | Active | G-01-18S-27E | 32.776497 | | 10/24/2014 | |
| APACHE CORPORATION EMPIRE ABO UNIT #194 30-015-22568 Oil Plugged (fist released) | Spur Energy Partners LLC | BIG BOY STATE #006 | 30-015-39324 | Oil | Active | O-36-17S-27E | 32.784599 | -104.230751 | 12/18/2011 | - A /20 /2004 |
| BPAMERICA PRODUCTION COMPANY EMPIRE ABO UNIT #019 30-015-01251 Oil Plugged (site released) O-36-175-27E 32,78508 1-02,320011 - 39/2/200 ARCO PERMINAN EMPIRE ABO UNIT #019B 30-015-00708 Oil Plugged (site released) O-01.85-27E 32,781450 - 1.04,320003 - 5,722/201 APACHE CORPORATION EMPIRE ABO UNIT #019B 30-015-00708 Oil Plugged (site released) O-01.85-27E 32,781450 - 1.04,320003 - 5,722/201 APACHE CORPORATION EMPIRE ABO UNIT #019C 30-015-00709 Oil Plugged (site released) O-01.85-27E 32,78015 - 1.04,232003 - 7,182/201 ARCHE CORPORATION AAO FEDERAL #0007 30-015-33473 Oil Active O-05-175-27E 32,78015 - 1.04,228028 10/22/2004 APACHE CORPORATION AAO FEDERAL #0007 30-015-33473 Oil Active O-01.85-27E 32,782555 1.04,228028 10/22/2004 APACHE CORPORATION AAO FEDERAL #0007 30-015-33473 Oil Active O-01.85-27E 32,782555 1.04,228028 10/22/2004 APACHE CORPORATION EMPIRE ABO UNIT #1912 30-015-22560 Oil Plugged (not released) 0-13.85-27E 32,778255 1.04,228070 5/30/1978 4/22/2004 APACHE CORPORATION AAO FEDERAL #001 AD F | APACHE CORPORATION | EMPIRE ABO UNIT #194 | 30-015-22658 | Oil | Plugged (not released) | J-01-18S-27E | 32.773132 | -104.230492 | 10/18/1978 | 4/19/2021 |
| ARCH ECRPORATION EMPIRE AGO UNIT #191 30-015-000698 SVD Plugged (site released) | PRE-ONGARD WELL OPERATOR BP AMERICA PRODUCTION COMPANY | | | | | O-01-185-27E O-36-175-27E | | | 3/15/1971 | 12/30/1991 9/9/2009 |
| APACHE CORPORATION EMPIRE ABO UNIT #019°C 30-015-00709 Oil Plugged (site released) G-01-185-27E 32.77828 1-02.230003 - 2/18/2015 Six Energy Parity Six Los Bis BOY STATE #0008 30-015-3326 Oil Active 0-03-6175-27E 32.778450 1-04.228928 10/22/2004 - APACHE CORPORATION AND FEDERAL #0007 30-015-33473 Oil Active B-01-185-27E 32.778450 1-04.228928 10/22/2004 - APACHE CORPORATION EMPIRE ABO UNIT #193 30-015-32296 Oil Active B-01-185-27E 32.778450 1-04.228928 10/22/2004 - APACHE CORPORATION EMPIRE ABO UNIT #193 30-015-32296 Oil Active B-01-185-27E 32.778450 1-04.228928 10/22/2004 - APACHE CORPORATION EMPIRE ABO UNIT #193 30-015-22960 Oil Active G-01-185-27E 32.778450 1-04.228970 5/30/1978 4/22/20/APACHE CORPORATION AND FEDERAL #018 30-015-21873 Oil Active G-01-185-27E 32.778418 1-04.228938 10/22/2004 APACHE CORPORATION EMPIRE ABO UNIT #193 30-015-02895 Oil Active G-01-185-27E 32.778418 1-04.228938 10/22/2004 APACHE CORPORATION EMPIRE ABO UNIT #193 30-015-02896 Oil Plugged (site released) I-01-185-27E 32.778405 1-04.228938 10/22/2004 APACHE CORPORATION EMPIRE ABO UNIT #1020 30-015-32178 Oil Active Interest Inter | ARCO PERMIAN | EMPIRE ABO UNIT #191 | 30-015-00698 | SWD | Plugged (site released) | O-01-185-27E | 32.770817 | -104.230003 | 10/7/1959 | 12/8/1989 |
| APACHE CORPORATION AO FEDERAL ROO7 30-015-33473 Oil Active B-01-185-27E 32.778450 1-02.228928 10/22/2004 - APACHE CORPORATION AO FEDERAL ROO3 30-015-32295 Oil Active B-01-185-27E 32.778450 1-02.228928 10/22/2004 - APACHE CORPORATION EMPIRE AGO UNIT #192 30-015-22560 Oil Plugged (intereleased) 1-01-185-27E 32.778510 1-02.228928 18/2/2004 - APACHE CORPORATION AO FEDERAL ROO18 30-015-21873 Oil Active G-01-185-27E 32.778510 1-02.228928 18/2/2004 - APACHE CORPORATION EMPIRE AGO UNIT #193 Oil Active G-01-185-27E 32.778410 1-02.228928 18/2/2004 - APACHE CORPORATION EMPIRE AGO UNIT #193 Oil Active G-01-185-27E 32.778418 1-04.228938 18/2/2004 - APACHE CORPORATION EMPIRE AGO UNIT #193 Oil Active G-01-185-27E 32.778405 1-04.228978 18/2/2004 - APACHE CORPORATION EMPIRE AGO UNIT #193 Oil Active G-01-185-27E 32.778405 1-04.228778 41/17/1976 5/9/2014 - APACHE CORPORATION EMPIRE AGO UNIT #193 Oil Active G-01-185-27E 32.778405 1-04.228778 41/17/1976 5/9/2014 - APACHE CORPORATION AO FEDERAL ROO2 30-015-32810 Oil Active G-01-185-27E 32.785405 1-04.228778 41/17/1976 5/9/2014 - APACHE CORPORATION EMPIRE AGO UNIT #193 Oil Active G-01-185-27E 32.785405 1-04.228778 41/17/1976 5/9/2014 - APACHE CORPORATION EMPIRE AGO UNIT #193 Oil Active G-01-185-27E 32.785405 1-04.228778 41/17/1976 5/9/2014 - APACHE CORPORATION EMPIRE AGO UNIT #193 Oil-15-22555 Oil Active H-11-185-27E 32.778599 1-04.228784 81/18/1985 - APACHE CORPORATION EMPIRE AGO UNIT #193 Oil-15-22555 Oil Active H-11-185-27E 32.778599 1-04.228783 81/17/1999 5/19/2014 - APACHE CORPORATION EMPIRE AGO UNIT #1930 03-015-015-015 Oil Plugged (site released) H-11-185-27E 32.778599 1-04.228783 81/17/1999 5/19/2014 - APACHE CORPORATION EMPIRE AGO UNIT #1930 03-015-015-015 Oil Plugged (site released) H-11-185-27E 32.778599 1-04.228588 91/19/1995 5/19/2014 - APACHE CORPORATION EMPIRE AGO UNIT #1930 03-015-015-015 Oil Plugged (site released) H-11-185-27E 32.778599 1-04.228598 91/19/1995 5/19/2014 - APACHE CORPORATION EMPIRE AGO UNIT #1930 03-015-015-015 Oil Plugged (site released) H-11-185-27E | APACHE CORPORATION | EMPIRE ABO UNIT #019C | 30-015-00709 | Oil | Plugged (site released) | G-01-185-27E | 32.777828 | -104.230003 | - | 2/18/2013 |
| APACHE CORPORATION AO FEDERAL ROO3 30-015-22560 OII Plugged (not released) | Spur Energy Partners LLC APACHE CORPORATION | | | | | | | | 5/6/2013 10/22/2004 | |
| APACHE CORPORATION AO FEDERAL RO18 30-015-21873 OII Active G-01-185-27E 32.776913 1:04.228928 8/8/2014 I-APACHE CORPORATION EMPIRE ABO UNIT 8019Q 30-015-21873 OII Plugged (site released) 1-01-185-27E 32.778148 1:04.228928 8/8/2014 I-APACHE CORPORATION EMPIRE ABO UNIT 8019Q 30-015-21873 OII Plugged (site released) 1-01-185-27E 32.778148 1:04.228938 8/8/2014 I-APACHE CORPORATION EMPIRE ABO UNIT 8019Q 30-015-21873 OII Plugged (site released) 1-01-185-27E 32.778448 1:04.228776 7/14/2003 I-7/12/2014 I-7/12/201 | APACHE CORPORATION | AAO FEDERAL #003 | 30-015-32309 | Oil | Active | B-01-18S-27E | 32.782356 | -104.229057 | 3/13/2003 | 4/22/2021 |
| APACHE CORPORATION EMPIRE ABO UNIT 8039Q 30-015-21783 01 Plugged (site released) H-01-185-27E 32.77448 1-02.230003 - 7/12/201 APACHE CORPORATION EMPIRE ABO UNIT 8020 30-015-21783 01 Plugged (site released) H-01-185-27E 32.78518 1-02.226776 7/14/2003 - APACHE CORPORATION AND EMPIRE ABO UNIT 8020 30-015-2183 01 Active 01-185-27E 32.78518 1-02.226776 7/14/2003 - APACHE CORPORATION EMPIRE ABO UNIT 8020 30-015-02677 01 Plugged (site released) P-36-175-27E 32.78518 1-02.226778 9/9/200 APACHE CORPORATION AND FEBRUAR 8017 30-015-20599 01 Active H-01-185-27E 32.785192 -104.225784 8/18/1985 - APACHE CORPORATION AND EMPIRE ABO UNIT 8020 30-015-22599 01 Active H-01-185-27E 32.775599 1-04.225782 8/18/1985 - APACHE CORPORATION EMPIRE ABO UNIT 8020 30-015-22560 01 Active H-01-185-27E 32.775599 1-04.225782 8/18/1985 - APACHE CORPORATION EMPIRE ABO UNIT 8020 30-015-02151 01 Plugged (site released) A-01-185-27E 32.775395 1-04.225733 11/7/1959 5/19/20/ APACHE CORPORATION EMPIRE ABO UNIT 8020 30-015-02151 01 Plugged (site released) A-01-185-27E 32.771539 1-04.225733 11/7/1959 5/19/20/ APACHE CORPORATION EMPIRE ABO UNIT 8020 30-015-02151 01 Plugged (site released) A-01-185-27E 32.771539 1-04.225733 11/7/1959 5/19/20/ APACHE CORPORATION EMPIRE ABO UNIT 8020K 30-015-02151 01 Plugged (site released) A-01-185-27E 32.771539 1-04.225788 - 7/8/20/ APACHE CORPORATION AND FEDERAL 8024 30-015-40244 01 Active A-01-185-27E 32.771523 1-04.225788 1-04.226382 8/4/2014 - APACHE CORPORATION AND FEDERAL 8024 30-015-40244 01 Active A-01-185-27E 32.778589 1-04.226382 8/4/2014 - APACHE CORPORATION AND FEDERAL 8024 30-015-402337 01 Active A-01-185-27E 32.778583 1-04.226352 6/3/2014 - APACHE CORPORATION AND FEDERAL 803 30-015-30359 01 Active A-01-185-27E 32.778583 1-04.226352 6/3/2014 - APACHE CORPORATION AND FEDERAL 809 UNIT 8020 30-015-30359 01 Active A-01-185-27E 32.778583 1-04.226352 6/3/2014 - APACHE CORPORATION AND FEDERAL 809 UNIT 8020 30-015-30359 01 Active A-01-185-27E 32.778583 1-04.226352 6/3/3/3/39 01 Active A-01-185-27E 32.778533 1-04.226352 | APACHE CORPORATION | AAO FEDERAL #018 | 30-015-42035 | OII | Active | G-01-185-27E | 32.776913 | -104.228928 | 8/9/2014 | - |
| APACHE CORPORATION EMPIRE ABO UNIT #2020 30-015-21783 Oil Plugged (gite released) H-01-185-27E 32.776405 1-02.227783 4/17/1976 5/9/201 APACHE CORPORATION AND FEDERAL ROO4 30-015-32100 II Active 01-185-27E 32.786114 01-02.225784 - 9/9/200 APACHE CORPORATION COMPANY EMPIRE ABO UNIT #2020 30-015-050677 Oil Plugged (gite released) P-36-175-27E 32.786145 1-02.225784 - 9/9/200 APACHE CORPORATION H-01-185-27E 32.786145 1-02.225784 - 9/9/200 APACHE CORPORATION AND FEDERAL #0017 30-015-240207 Oil Active H-01-185-27E 32.78698 1-02.225372 3/27/2014 - APACHE CORPORATION EMPIRE ABO UNIT #2020 30-015-20150 Oil Active H-01-185-27E 32.78698 1-02.225372 3/27/2014 - APACHE CORPORATION EMPIRE ABO UNIT #2020 30-015-20150 Oil Active H-01-185-27E 32.78698 1-02.225372 3/17/1959 5/19/201 APACHE CORPORATION EMPIRE ABO UNIT #2020 30-015-20150 Oil Plugged (gite released) A-01-185-27E 32.78698 1-02.225723 3/17/1959 5/19/201 APACHE CORPORATION EMPIRE ABO UNIT #2020 30-015-01215 Oil Plugged (gite released) A-01-185-27E 32.778395 1-02.225708 - 7/8/201 APACHE CORPORATION EMPIRE ABO UNIT #2020 30-015-02053 Oil Active H-01-185-27E 32.778395 1-02.4225708 - 7/8/201 APACHE CORPORATION AND FEDERAL #023 30-015-40236 Oil Active H-01-185-27E 32.778399 1-02.4225708 - 7/8/201 APACHE CORPORATION AND FEDERAL #023 30-015-40236 Oil Active A-01-185-27E 32.778399 1-02.422570 APACHE CORPORATION AND FEDERAL #024 30-015-40237 Oil Active A-01-185-27E 32.778399 1-02.422632 8/4/2014 - APACHE CORPORATION AND FEDERAL #024 30-015-00599 Oil Active A-01-185-27E 32.778399 1-02.224632 8/4/2014 - APACHE CORPORATION AND FEDERAL #024 30-015-00599 Oil Active A-01-185-27E 32.778399 1-02.224632 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/ | APACHE CORPORATION | EMPIRE ABO UNIT #019Q | 30-015-00696 | OII | Plugged (site released) | J-01-18S-27E | 32.774448 | -104.230003 | | 5/19/2017 7/12/2013 |
| BPAMERICA PRODUCTION COMPANY EMPIRE ABO UNIT #020 30-015-00677 Oil Plugged (site released) P-36-175-27E 32-784145 -104.225784 - 9/9/200 Active H-12.185-27E 32-781495 -104.225784 - 9/9/200 Active H-12.185-27E 32-78598 -104.225782 32/775014 - APACHE CORPORATION AAO FEDERAL #0017 30-015-240207 Oil Active H-01.185-27E 32-778598 -104.225372 3/27/2014 - APACHE CORPORATION EMPIRE ABO UNIT #020D 30-015-20155 Oil Plugged (site released) A-01-185-27E 32-778595 -104.225773 31/7/1959 5/19/201 APACHE CORPORATION EMPIRE ABO UNIT #020D 30-015-01215 Oil Plugged (site released) A-01-185-27E 32-778395 -104.225778 - 7/8/201 APACHE CORPORATION EMPIRE ABO UNIT #020C 30-015-001215 Oil Plugged (site released) A-01-185-27E 32-778395 -104.225778 - 7/8/201 APACHE CORPORATION APACHE CORPORATION AAO FEDERAL #023 30-015-40236 Oil Active A-01-185-27E 32-778599 -104.225788 - 7/8/201 APACHE CORPORATION AAO FEDERAL #024 30-015-40236 Oil Active A-01-185-27E 32-778599 -104.22578 3/4/2014 - APACHE CORPORATION AAO FEDERAL #024 30-015-40237 Oil Active A-01-185-27E 32-778599 -104.224501 APACHE CORPORATION AAO FEDERAL #024 30-015-40237 Oil Active A-01-185-27E 32-778599 -104.224632 3/4/2014 - APACHE CORPORATION AAO FEDERAL #024 30-015-30397 Oil Active A-01-185-27E 32-778580 -104.224632 3/4/2014 - APACHE CORPORATION AAO FEDERAL #024 30-015-30397 Oil Active A-01-185-27E 32-778580 -104-224632 3/4/2014 - APACHE CORPORATION AAO FEDERAL #004 30-015-30397 Oil Active A-01-185-27E 32-778580 -104-224632 3/4/2014 - APACHE CORPORATION AAO FEDERAL #008 30-015-30397 Oil Active A-01-185-27E 32-778580 -104-224632 2/28/2005 - APACHE CORPORATION AAO FEDERAL #008 30-015-30397 Oil Active A-01-185-27E 32-778580 -104-224632 2/28/2005 - APACHE CORPORATION AAO FEDERAL #008 30-015-30397 Oil Active A-01-185-27E 32-778683 -1 | APACHE CORPORATION APACHE CORPORATION | | | | Plugged (site released) | | | | | 6/9/2017 |
| APACHE CORPORATION AND FEMPRE ABO UNIT #020 30-015-22565 Oil Active H-01-185-27E 32.778698 1-04.226372 3/27/2014 - APACHE CORPORATION EMPIRE ABO UNIT #020 30-015-22565 Oil Active H-01-185-27E 32.778698 1-04.225383 3/31/31/978 - APACHE CORPORATION EMPIRE ABO UNIT #020 30-015-01215 Oil Plusged (site released) H-01-185-27E 32.781395 1-04.225733 3/17/1959 5/19/201 APACHE CORPORATION EMPIRE ABO UNIT #020K 30-015-00151 Oil Plusged (site released) H-01-185-27E 32.778395 1-04.225738 3-778586 1-04.225708 1-04.2257 | BP AMERICA PRODUCTION COMPANY | EMPIRE ABO UNIT #020 | 30-015-00677 | Oil | Plugged (site released) | P-36-17S-27E | 32.784145 | -104.226784 | - | 9/9/2009 |
| APACHE CORPORATION EMPIRE ABO UNIT #0200 30-015-02125 OII Plugged (site released) A-01-185-27E 32.781395 -1.04.225723 117/1/1959 5/19/201 APACHE CORPORATION EMPIRE ABO UNIT #0200C 30-015-02711 OII Plugged (site released) H-01-185-27E 32.771395 1-04.225708 - 7/8/201 APACHE CORPORATION AD FEDERAL R023 30-015-02713 OII Active H-01-185-27E 32.778286 1-04.225708 - 1/8/201 APACHE CORPORATION AD FEDERAL R024 30-015-42336 OII Active A01-185-27E 32.782864 1-04.224014 3/7/2014 - APACHE CORPORATION AD FEDERAL R024 30-015-42337 OII Active A01-185-27E 32.782864 1-04.224014 3/7/2014 - APACHE CORPORATION AD FEDERAL R024 30-015-02599 OII Active A01-185-27E 32.782864 1-04.224014 3/7/2014 - APACHE CORPORATION AD FEDERAL R024 30-015-00599 OII Active P-01-185-27E 32.7825010 1-04.224935 6/3/2014 - APACHE CORPORATION EMPIRE ABO UNIT R020B 30-015-00599 OII Active P-01-185-27E 32.778528 1-04.224632 2/28/2005 - APACHE CORPORATION AD FEDERAL R038 30-015-33784 OII Active P-01-185-27E 32.778583 1-04.224632 2/28/2005 - APACHE CORPORATION EMPIRE ABO UNIT R213 30-015-2319 OII Femporary Abandonment F-06-185-28E 32.777553 31/01/29365 C/28/1975 - APACHE CORPORATION EMPIRE ABO UNIT R213 30-015-21553 OII Temporary Abandonment H-01-185-27E 32.776533 1-04.223625 6/28/1975 - APACHE CORPORATION EMPIRE ABO UNIT R213 30-015-31553 OII Temporary Abandonment H-01-185-27E 32.776537 1-04.224362 6/28/1975 - APACHE CORPORATION EMPIRE ABO UNIT R213 30-015-31553 OII Temporary Abandonment H-01-185-27E 32.776537 1-04.224362 6/28/1975 - APACHE CORPORATION EMPIRE ABO UNIT R031 30-015-31553 OII Temporary Abandonment H-01-185-27E 32.776537 1-04.224362 6/28/1975 - APACHE CORPORATION EMPIRE ABO UNIT R031 30-015-31553 OII Temporary Abandonment H-01-185-27E 32.776537 1-04.224365 6/28/1975 - APACHE CORPORATION EMPIRE ABO UNIT R031 30-015-31553 OII Temporary Abandonment H-01-185-27E 32.776537 1-04.224365 6/28/1975 - APACHE CORPORATION EMPIRE ABO UNIT R031 30-015-31553 OII Temporary Abandonment H-01-185-27E 32.776537 1-04.224365 6/28/1975 - APACHE CORPORATION EMPIRE ABO UNI | APACHE CORPORATION | AAO FEDERAL #017 | 30-015-42027 | Oil | Active | H-01-18S-27E | 32.778698 | -104.226372 | 3/27/2014 | - |
| APACHE CORPORATION EMPIRE ABO UNIT #020C 30-015-00597 Oil Plugged (site released) H-01-185-27E 32.777566 -104.225708 - 7/8/201 APACHE CORPORATION AND FEDERAL RO14 30-015-02565 Oil Active H-01-185-27E 32.776995 -104.225708 - 1/5/200 APACHE CORPORATION AND FEDERAL RO14 30-015-42024 Oil Active H-01-185-27E 32.776989 -104.224014 3/7/2014 - APACHE CORPORATION AND FEDERAL RO14 30-015-42024 Oil Active A0-1-185-27E 32.78694 -104.224014 3/7/2014 - APACHE CORPORATION AND FEDERAL RO24 30-015-02590 Oil Active A0-1-185-27E 32.786510 -104.224305 - 3/8/2014 - APACHE CORPORATION EMPIRE ABO UNIT #020B 30-015-00599 Oil Active P-01-185-27E 32.778583 -104.224632 1/1/6/1961 - APACHE CORPORATION AND FEDERAL RO08 30-015-33784 Oil Active Oil-185-27E 32.778683 -104.224632 1/1/6/1961 - APACHE CORPORATION EMPIRE ABO UNIT #020B 30-015-33784 Oil Active Oil-85-27E 32.778683 -104.224632 1/1/6/1961 - APACHE CORPORATION EMPIRE ABO UNIT #020B 30-015-33784 Oil Active Oil-85-27E 32.778638 -104.224632 1/1/6/1961 - APACHE CORPORATION EMPIRE ABO UNIT #020B 30-015-33784 Oil Active Oil-85-27E 32.778638 -104.224632 1/1/6/1961 - APACHE CORPORATION EMPIRE ABO UNIT #020B 30-015-33784 Oil Active Oil-85-27E 32.778638 -104.223632 1/1/6/1961 - APACHE CORPORATION EMPIRE ABO UNIT #020B 30-015-33784 Oil Active Oil-85-27E 32.778638 -104.223632 1/1/6/1960 - APACHE CORPORATION EMPIRE ABO UNIT #020B 30-015-33180 Oil Temporary Abandonment E-06-185-27E 32.778633 -104.223632 1/1/6/1960 - APACHE CORPORATION EMPIRE ABO UNIT #020B 30-015-33180 Oil Temporary Abandonment H-01-185-27E 32.776537 -104.223236 1/0/2/3006 - 104.0007 - | APACHE CORPORATION APACHE CORPORATION | | | | | H-01-18S-27E | | | | 5/19/2017 |
| APACHE CORPORATION AND FEDERAL #023 30-015-42336 Oil Active H-01.185-27E 32.776989 1-04.224632 8/4/2014 - APACHE CORPORATION AND FEDERAL #024 30-015-42337 Oil Active A01-185-27E 32.780510 -104.224014 37/2014 - APACHE CORPORATION AND FEDERAL #024 30-015-42337 Oil Active A01-185-27E 32.780510 -104.224330 6/3/2014 - APACHE CORPORATION EMPIRE ABO UNIT #0208 30-015-00099 Oil Active P-01-185-27E 32.77523 1-04.224632 11/16/1961 - APACHE CORPORATION AND FEDERAL #0098 30-015-30374 Oil Active 01-185-27E 32.77523 1-04.224632 11/16/1961 - APACHE CORPORATION EMPIRE ABO UNIT #213 30-015-33746 Oil Active 01-185-27E 32.77576 -104.223326 3/10/1980 - APACHE CORPORATION EMPIRE ABO UNIT #213 30-015-33746 Oil Active 10-185-27E 32.77576 -104.223326 3/10/1980 - APACHE CORPORATION EMPIRE ABO UNIT #213 30-015-3315 Oil Temporary Abandonment H-01-185-27E 32.776333 -104.223625 6/28/1975 - LUVENTURES, LUC DPA MARKER OIL & GAS 104/224632 10/2/2000 - 104/2000 - 104/2000 - 104/224695 10/2/2000 - 104/2000 - 104/2000 - 104/224695 10/2/2000 - 104/2000 - 104/2000 - 104/224695 10/2/2000 - 104/2000 - 104/2000 - 104/224695 10/2/2000 - 104/2000 - 104/2000 - 104/224695 10/2/2000 - 104/2000 - 104/2000 - 104/224695 10/2/2000 - 104/2000 - 104/2000 - 104/224695 10/2/2000 - 104/2000 - 104/2000 - 104/224695 10/2/2000 - 104/2000 - 104/2000 - 104/224695 10/2/2000 - 104/2000 - 104/2000 - 104/224695 10/2/2000 - 104/2000 - 104/2000 - 104/224695 10/2/2000 - 104/2000 - 104/2000 - 104/224695 10/2/2000 - 104/2000 - 104/2000 - 104/2000 - 104/224695 10/2/2000 - 104/2000 - | APACHE CORPORATION | EMPIRE ABO UNIT #020C | 30-015-00711 | Oil | Plugged (site released) | H-01-18S-27E | 32.777786 | -104.225708 | | 7/8/2013 |
| APACHE CORPORATION AND FEDERAL R014 30-015-42024 0II Active A01-185-27E 32.7825804 1.04.224014 3/7/2014 - APACHE CORPORATION AND FEDERAL R024 30-015-42337 0II Active A01-185-27E 32.78510 1.04.224305 674/2014 - APACHE CORPORATION EMPIRE ABO UNIT #020B 30-015-005699 0II Active P-01-185-27E 32.771523 -1.04.224632 11/15/1961 - APACHE CORPORATION AND FEDERAL R008 30-015-33784 0II Active 01-185-27E 32.771523 -1.04.224632 12/16/1965 - APACHE CORPORATION EMPIRE ABO UNIT #213 30-015-33150 0II Temporary Abandonment E-06-185-28E 32.777576 10-012-22336 3)-3/10/1980 - APACHE CORPORATION EMPIRE ABO UNIT #213 30-015-33150 0II Temporary Abandonment H-01-185-27E 32.776333 -1.04.223625 6/28/1975 - LUVENTURES, LUC DPA MARKER OIL & GAS LUREL STATE #8003 30-015-33150 0II Active F-07-185-28E 32.776557 1-04.222465 10/2/22005 - | APACHE CORPORATION | AAO FEDERAL #023 | 30-015-42336 | Oil | Active | H-01-185-27E | 32.776989 | -104.224632 | | 1/5/2003 |
| APACHE CORPORATION EMPIRE ABO UNIT #0208 30-015-00699 OII Active P-01-185-27E 32.771523 1-04.224632 1/1/6/1961 - APACHE CORPORATION AAO FEDERAL #008 30-015-33784 OII Active 01-185-27E 32.771653 -104.224632 2/28/2005 - APACHE CORPORATION EMPIRE ABO UNIT #213 30-015-23116 OII Temporary Abandonment E-06-185-28E 32.7776578 -104.223235 3/10/1980 - APACHE CORPORATION EMPIRE ABO UNIT #201 30-015-23151 OII Temporary Abandonment H-01-185-27E 32.776533 -104.2232625 6/28/1975 - LUVENTURES, LUC DPA MARKER OIL & GAS LUREL STATE #003 30-015-31310 OII Active F-07-185-28E 32.776577 -104.223263 10/2/2006 - | APACHE CORPORATION | | | | | A-01-18S-27E | 32.782864 | -104.224014 | 3/7/2014 | $\vdash \exists$ |
| APACHE CORPORATION EMPIRE ABO UNIT #213 30-015-23316 OII Temporary Abandonment E-06-185-28E 32.777576 -104.223236 3/10/1980 - APACHE CORPORATION EMPIRE ABO UNIT #201 30-015-21553 OII Temporary Abandonment H-01-185-27E 32.776333 -104.223265 5/28/1975 - UVENTURES, LIC DBA MARKER OII & GAS LAUREL STATE #003 30-015-31331 OII Active E-07-185-28E 32.765577 -104.223496 10/2/2000 - | APACHE CORPORATION | EMPIRE ABO UNIT #020B | 30-015-00699 | Oil | Active | P-01-185-27E | 32.771523 | -104.224632 | 11/16/1961 | - |
| APACHE CORPORATION EMPIRE ABO UNITI #201 30-015-21553 OII Temporary Abandonment H-01-185-27E 32.776533 -104.2236525 [6728/1975 - UNIVENTURES, LIC DBB MARKER OIL & GAS LUREL STATE #0093 30-015-31319 OII Active F-07-185-28E 32.776537 1-04222369 G/07/2000 - UNIVENTURES, LUC DBB MARKER OIL & GAS LUREL STATE #0093 30-015-31319 OII Active F-07-185-28E 32.776537 1-04222369 G/07/2000 - UNIVENTURES, LUC DBB MARKER OIL & GAS LUREL STATE #0093 30-015-31319 OII Active F-07-185-28E 32.776537 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII Active F-07-185-28E 32.776537 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII Active F-07-185-28E 32.776537 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII Active F-07-185-28E 32.776537 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII Active F-07-185-28E 32.776537 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII Active F-07-185-28E 32.776537 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII Active F-07-185-28E 32.776537 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII Active F-07-185-28E 32.776577 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII Active F-07-185-28E 32.776577 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII ACTIVE F-07-185-28E 32.776577 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII ACTIVE F-07-185-28E 32.776577 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII ACTIVE F-07-185-28E 32.776577 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII ACTIVE F-07-185-28E 32.776577 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII ACTIVE F-07-185-28E 32.776577 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE #0093 30-015-31319 OII ACTIVE F-07-185-28E 32.776577 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE F-07-185-28E 32.77657 1-04222369 G/07/2000 - UNIVENTURES, LUREL STATE F-07-185-28E 32.77657 1-042223 | APACHE CORPORATION | EMPIRE ABO UNIT #213 | 30-015-23116 | OII | Temporary Abandonment | E-06-185-28E | 32.777576 | -104.223236 | 3/10/1980 | |
| APACHE CORPORATION EMPIRE ABO UNIT #212 30-015-22637 Oil Temporary Abandonment E-06-185-28E 32,776493 -104,222750 12/14/1978 - | APACHE CORPORATION | EMPIRE ABO UNIT #201 | | | Temporary Abandonment | H-01-18S-27E | | | | |
| 111111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | APACHE CORPORATION | | | | Temporary Abandonment | | | | | - |

| Operator Name | Well Name | API | Туре | Status | Surface Location | Latitude | Longitude | Spud Date | Plug Date |
|--|------------------------------|--------------|------|-------------------------|------------------|-----------|-------------|------------|-----------|
| MARBOB ENERGY CORP | LP STATE #003 | 30-015-31087 | Oil | Plugged (site released) | M-06-18S-28E | 32.771648 | -104.222488 | 6/19/2000 | 3/17/2008 |
| APACHE CORPORATION | EMPIRE ABO UNIT #021D | 30-015-02622 | OII | Temporary Abandonment | L-06-18S-28E | 32.775032 | -104.221413 | 12/27/1959 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #021C | 30-015-02619 | Oil | Active | E-06-18S-28E | 32,777771 | -104.221413 | 10/8/1959 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #021B | 30-015-02613 | Oil | Active | D-06-18S-28E | 32.780518 | -104.221413 | 12/8/1959 | - |
| RUTH OIL CO, LLC | STATE M-AI #002 | 30-015-02627 | OII | Active | M-06-18S-28E | 32.771542 | -104.220337 | 10/4/1960 | - |
| LLI VENTURES, LLC DBA MARKER OIL & GAS | LAUREL STATE #002 | 30-015-25675 | OII | Active | E-07-18S-28E | 32.764397 | -104.220268 | 10/28/1988 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #211A | 30-015-23548 | Oil | Temporary Abandonment | L-06-18S-28E | 32.774296 | -104.220306 | | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #211 | 30-015-21395 | Oil | Active | E-06-18S-28E | 32.776043 | -104.219330 | 12/12/1974 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #022C | 30-015-02610 | OII | Active | N-06-18S-28E | 32.771565 | -104.217865 | 7/20/1960 | - |
| LLI VENTURES, LLC DBA MARKER OIL & GAS | LAUREL STATE #001 | 30-015-25997 | Oil | Active | C-07-18S-28E | 32.766354 | -104.217850 | 12/15/1986 | - |
| APACHE CORPORATION | EMPIRE ABO UNIT #223 | 30-015-22527 | Oil | Plugged (not released) | F-06-18S-28E | 32.776077 | -104.217278 | 4/22/1978 | 7/23/2021 |
| APACHE CORPORATION | EMPIRE ABO UNIT #022F | 30-015-02623 | Oil | Active | K-06-185-28E | 32.775124 | -104.216805 | 1/28/1960 | - |
| Redwood Operating LLC | FEDERAL T SWD #001 | 30-015-26404 | SWD | Active | A-12-185-27E | 32.767151 | -104.226784 | 6/28/1990 | - |
| Redwood Operating LLC | CHALK BLUFF FEDERAL SWD #001 | 30-015-27163 | SWD | Active | I-01-18S-27E | 32.774406 | -104.226784 | 5/10/1981 | - |
| Redwood Operating LLC | STATE H #002 | 30-015-35814 | Oil | Active | H-02-18S-27E | 32.777710 | -104.242149 | 10/31/2007 | - |
| MEWBOURNE OIL CO | CHALK BLUFF FEDERAL COM #002 | 30-015-26741 | Gas | Active | F-01-185-27E | 32.778801 | -104.236336 | 5/13/1991 | - |
| MEWBOURNE OIL CO | CHALK BLUFF 6 STATE #001 | 30-015-26943 | Gas | Active | M-06-18S-28E | 32.771652 | -104.221184 | 2/17/1992 | - |
| MEWBOLIRNE OIL CO | CHALK BLUFF 36 STATE #001 | 30-015-27286 | Oil | Active | M-36-175-27E | 32.785164 | -104.237587 | 2/2/1993 | - |

Attachment 7 Digital Data



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

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 139503

COMMENTS

| Operator: | OGRID: |
|---------------------------------|-------------------------------------|
| NAVAJO REFINING COMPANY, L.L.C. | 15694 |
| P.O. Box 159 | Action Number: |
| Artesia, NM 88211 | 139503 |
| | Action Type: |
| | [C-103] NOI General Sundry (C-103X) |

COMMENTS

| Created By | Comment | Comment Date |
|------------|--------------------------|--------------|
| cchavez | WDW-3 Fall-Off Test 2022 | 10/19/2022 |

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

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 139503

CONDITIONS

| Operator: | OGRID: |
|-----------------------------------|---|
| NAVAJO REFINING COMPANY, L.L.C. | 15694 |
| P.O. Box 159 Artesia, NM 88211 | Action Number: 139503 |
| , | Action Type: [C-103] NOI General Sundry (C-103X) |

CONDITIONS

| Created E | y Condition | Condition Date |
|-----------|--|----------------|
| cchave | Conditions of Approval are as follows: 1) Similar conditions as for WDW-1 FOT 2022 with elevated skin (~21) value/effect and less injection interval permeability. | 10/19/2022 |