Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

| FORM APPROVED |) |
|-------------------------|----|
| OMB No. 1004-0137 | , |
| Expires: October 31, 20 |)2 |

| DEP | AKIMENI OF THE INTEK | JUK | | | LAPII | cs. October 51, 2021 |
|---|--|------------------------|---------------|--------------------|--------------|--|
| BURI | EAU OF LAND MANAGEM | MENT | | 5. Lease Ser | rial No. | |
| Do not use this f | OTICES AND REPORTS form for proposals to dril Use Form 3160-3 (APD) fo | l or to re-e | enter an | 6. If Indian, | Allottee or | Tribe Name |
| SUBMIT IN 1 | TRIPLICATE - Other instructions | on page 2 | | 7. If Unit of | CA/Agreen | nent, Name and/or No. |
| 1. Type of Well | | | | 8. Well Nam | ne and No | |
| Oil Well Gas W | /ell | | | | | |
| 2. Name of Operator | | | | 9. API Well | 30 | -025-52355 |
| 3a. Address | | one No. (includ | le area code, | | | xploratory Area |
| 4. Location of Well (Footage, Sec., T.,R | .,M., or Survey Description) | | | 11. Country | or Parish, S | tate |
| 12. CHE | CK THE APPROPRIATE BOX(ES) | TO INDICAT | E NATURE | OF NOTICE, REPOR | Г OR OTHI | ER DATA |
| TYPE OF SUBMISSION | | _ | TYP | E OF ACTION | | |
| Notice of Intent | Acidize | Deepen | | Production (Start/ | Resume) | Water Shut-Off |
| | Alter Casing Casing Repair | Hydraulic F New Constr | - | Recomplete | | Well Integrity Other |
| Subsequent Report | Change Plans | Plug and Al | | Temporarily Abar | ndon | Other |
| Final Abandonment Notice | Convert to Injection | Plug Back | | Water Disposal | | |
| completed. Final Abandonment Not is ready for final inspection.) | tices must be filed only after all requ | irements, inclu | | | | 50-4 must be filed once testing has been a operator has detennined that the site |
| 14. I hereby certify that the foregoing is | true and correct. Name (Printed/Typ | ped) Title | | | | |
| | | 11110 | | | | |
| Signature | | | | | | |
| | THE SPACE FOR | FEDERA | L OR STA | ATE OFICE USE | | |
| Approved by | | | Title | | D | ate |
| Conditions of approval, if any, are attack certify that the applicant holds legal or e which would entitle the applicant to con | equitable title to those rights in the su | | Office | | | |
| | | | | | | |

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

Additional Information

Additional Remarks

Change target formation to Leonard B.

Update casing and cement program to current design.

Location of Well

0. SHL: TR O / 716 FSL / 2398 FEL / TWSP: 25S / RANGE: 33E / SECTION: 30 / LAT: 32.0962885 / LONG: -103.6105962 (TVD: 0 feet, MD: 0 feet)
PPP: TR O / 100 FSL / 1725 FEL / TWSP: 25S / RANGE: 33E / SECTION: 30 / LAT: 32.0945951 / LONG: -103.6084251 (TVD: 9010 feet, MD: 9093 feet)
PPP: TR G / 2640 FSL / 1725 FEL / TWSP: 25S / RANGE: 33E / SECTION: 30 / LAT: 32.1015746 / LONG: -103.6084216 (TVD: 9275 feet, MD: 11734 feet)
BHL: TR J / 2540 FSL / 1725 FEL / TWSP: 25S / RANGE: 33E / SECTION: 30 / LAT: 32.1158142 / LONG: -103.6084143 (TVD: 9275 feet, MD: 16914 feet)

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-0161 Fast: (575) 393-0720

DISTRICT II

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

DISTRICT III

1000 Rio Brazos Rd., Aztee, NM 87410
Phone: (505) 334-6178 Fast: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fast: (505) 476-3462

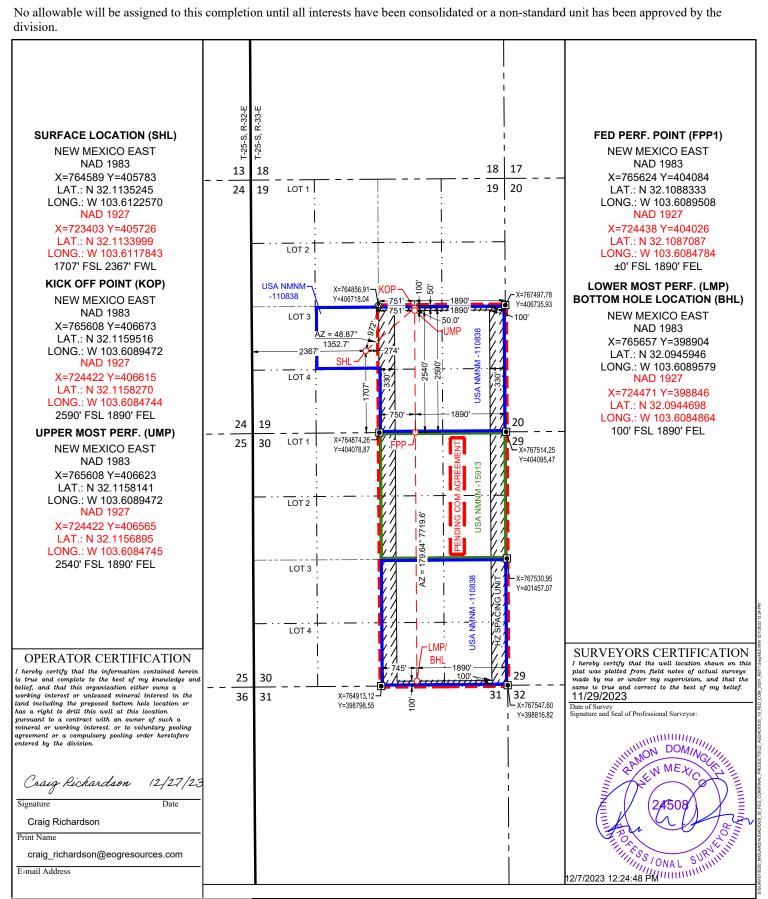
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| WEEE ECCHIONING RENERGE DEDICATION LERI | | | | | | | | | |
|---|----------------------|----------|-----------------------|---------|-----------------------------|---------------------------------------|---------------|----------------|--------|
| | API Number Pool Code | | | | | Pool Name | | | |
| 3 | 30-025- 52355 | | | 14 | | WC-025 G-06 S253329D, UPR BONE SPRING | | | |
| Property Co | ode | | • | | Property Name | | | Well Nun | nber |
| 322220 | | | | AU | DACIOUS 19 | FED COM | | 20 | 2H |
| OGRID N | o. | | | | Operator Name | | | Elevation | on |
| 7377 | • | | | EC | OG RESOURC | ES, INC. | | 34 | ·51' |
| | | | | | Surface Loca | tion | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| K | 19 | 25-S | 33-E | - | 1707' | 707' SOUTH 2367' WEST LEA | | | |
| | | | Bott | om Hole | Location If Diff | ferent From Surfac | ee | • | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| 0 | 30 | 25-S | 33-E | - | - 100' SOUTH 1890' EAST LEA | | | | |
| Dedicated Acres | Joint or | Infill | Consolidated Co | de Ord | er No. | • | • | • | |
| 480.00 | | | PENDING COM AGREEMENT | | | | | | |



Revised Permit Information 11/08/2023:

Well Name: Audacious 19 Fed Com 202H

Location: SHL: 1707' FSL & 2367' FWL, Section 19, T-25-S, R-33-E, Lea Co., N.M.

BHL: 100' FSL & 1890' FEL, Section 30, T-25-S, R-33-E, Lea Co., N.M.

1. CASING PROGRAM A:

| Hole | Interval MD | | Interval TVD | | Csg | | | |
|--------|--------------------|---------|---------------------|---------|---------|--------|---------|-------------|
| Size | From (ft) | To (ft) | From (ft) | To (ft) | OD | Weight | Grade | Conn |
| 16" | 0 | 1,030 | 0 | 1,030 | 13-3/8" | 54.5# | J-55 | STC |
| 11" | 0 | 4,921 | 0 | 4,760 | 9-5/8" | 40# | J-55 | LTC |
| 6-3/4" | 0 | 17,449 | 0 | 9,730 | 5-1/2" | 20# | P110-EC | DWC/C IS MS |

Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 11" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 11" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement for the intermediate (salt) section from Onshore Order #2 under the following conditions:

- The variance is not applicable within the Potash Boundaries or Capitan Reef areas.
- Operator takes responsibility to get casing to set point in the event that the clearance causes stuck pipe issues.

2. CEMENTING PROGRAM:

| | | Wt. | Yld | Slurry Description |
|---------|-----------|------|--------|---|
| Depth | No. Sacks | ppg | Ft3/sk | , , |
| 1,030' | 270 | 13.5 | 1.73 | Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk |
| 13-3/8" | | | | Cello-Flake (TOC @ Surface) |
| | 160 | 14.8 | 1.34 | Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 830') |
| 4,760' | 460 | 12.7 | 2.22 | Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC |
| 9-5/8'' | | | | @ Surface) |
| | 160 | 14.8 | 1.32 | Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 3,940') |
| 17,449' | 340 | 10.5 | 3.21 | Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond |
| 5-1/2'' | | | | (TOC @ 4,426') |
| | 570 | 13.2 | 1.52 | Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + |
| | | | | 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 |
| | | | | (TOC @ 9410') |



| Additive | Purpose |
|---------------------|---|
| Bentonite Gel | Lightweight/Lost circulation prevention |
| Calcium Chloride | Accelerator |
| Cello-flake | Lost circulation prevention |
| Sodium Metasilicate | Accelerator |
| MagOx | Expansive agent |
| Pre-Mag-M | Expansive agent |
| Sodium Chloride | Accelerator |
| FL-62 | Fluid loss control |
| Halad-344 | Fluid loss control |
| Halad-9 | Fluid loss control |
| HR-601 | Retarder |
| Microbond | Expansive Agent |

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

3. MUD PROGRAM:

| Depth (TVD) | Type | Type Weight (ppg) | | Water Loss |
|------------------|-------------|-------------------|-------|------------|
| 0 – 1,030' | Fresh - Gel | 8.6-8.8 | 28-34 | N/c |
| 1,030' – 4,760' | Brine | 9.0-10.5 | 28-34 | N/c |
| 4,760' – 17,449' | Oil Base | 8.8-9.5 | 58-68 | N/c - 6 |

4. VARIANCE REQUESTS:

EOG requests the additional variance(s) in the attached document(s):

- Break-test BOP and Offline Cementing
- Salt Section Annular Clearance



5. TUBING REQUIREMENTS

EOG respectively requests an exception to the following NMOCD rule:

• 19.15.16.10 Casing AND TUBING RQUIREMENTS:

J (3): "The operator shall set tubing as near the bottom as practical and tubing perforations shall not be more than 250 feet above top of pay zone."

With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher the probability is that the tubing will become stuck in sand and or well debris as the well produces over time. An additional consideration for EOT placement during artificial lift installations is avoiding the high dog leg severity and inclinations found in the curve section of the wellbore to help improve reliability and performance. Dog leg severity and inclinations tend not to hamper gas lifted or flowing wells, but they do effect other forms of artificial lift like rod pump or ESP (electric submersible pump). Keeping the EOT above KOP is an industry best practice for those respective forms of artificial lift.

1707' FSL Revised Wellbore A:

KB: 3476' GL: 3451'

2367' FWL Section 19

T-25-S, R-33-E

API: 30-025-52355

Bit Size: 16" 13-3/8", 54.5#, J-55, STC @ 0' - 1,030' Bit Size: 11" 9-5/8", 40.#, J-55, LTC @ 0' - 4,760' TOC: 4,426' Bit Size: 6-3/4" 5-1/2", 20.#, P110-EC, DWC/C IS MS Lateral: 17,449' MD, 9,730' TVD @ 0' - 17,449' **Upper Most Perf:** 2540' FSL & 1890' FEL Sec. 19 **Lower Most Perf:** 100' FSL & 1890' FEL Sec. 30 BH Location: 100' FSL & 1890' FEL Sec. 30 T-25-S R-33-E KOP: 9,408' MD, 9,252' TVD EOC: 10,158' MD, 9,730' TVD



Revised Permit Information 11/08/2023:

Well Name: Audacious 19 Fed Com 202H

Location: SHL: 1707' FSL & 2367' FWL, Section 19, T-25-S, R-33-E, Lea Co., N.M.

BHL: 100' FSL & 1890' FEL, Section 30, T-25-S, R-33-E, Lea Co., N.M.

1. CASING PROGRAM B:

| Hole | Interval MD Interval TVD | | Interval MD | | Csg | | | |
|---------|--------------------------|---------|-------------|---------|---------|--------|---------|-------------|
| Size | From (ft) | To (ft) | From (ft) | To (ft) | OD | Weight | Grade | Conn |
| 13-1/2" | 0 | 1,030 | 0 | 1,030 | 10-3/4" | 40.5# | J-55 | STC |
| 9-7/8" | 0 | 4,921 | 0 | 4,760 | 8-5/8" | 32# | J-55 | BTC-SC |
| 6-3/4" | 0 | 17,449 | 0 | 9,730 | 5-1/2" | 20# | P110-EC | DWC/C IS MS |

Variance is requested to waive the centralizer requirements for the 8-5/8" casing in the 9-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 9-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement for the intermediate (salt) section from Onshore Order #2 under the following conditions:

- The variance is not applicable within the Potash Boundaries or Capitan Reef areas.
- Operator takes responsibility to get casing to set point in the event that the clearance causes stuck pipe issues.

2. CEMENTING PROGRAM:

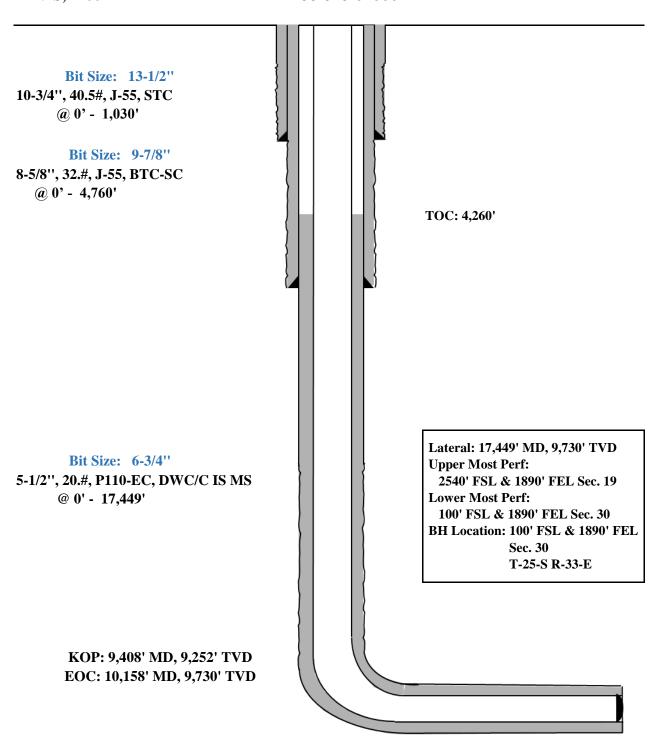
| | | Wt. | Yld | Slumma Description |
|--------------------|-----------|------|--------|---|
| Depth | No. Sacks | ppg | Ft3/sk | Slurry Description |
| 1,030' 10-3/4'' | 350 | 13.5 | 1.73 | Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello- Flake (TOC @ Surface) |
| | 110 | 14.8 | 1.34 | Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 830') |
| 4,760' 8-5/8" | 380 | 12.7 | 2.22 | Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface) |
| | 630 | 14.8 | 1.32 | Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 3,940') |
| 17,449' 5-1/2" | 500 | 10.5 | 3.21 | Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,426') |
| | 800 | 13.2 | 1.52 | Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 9410') |



1707' Revised Wellbore B: KB: 3476'
2367' GL: 3451'

Section 19

T-25-S, R-33-E API: 30-025-52355





GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

| Rustler | 907' |
|------------------------|---------|
| Tamarisk Anhydrite | 1,000' |
| Top of Salt | 1,244' |
| Base of Salt | 4,655' |
| Lamar | 4,817' |
| Bell Canyon | 4,840' |
| Cherry Canyon | 5,914' |
| Brushy Canyon | 7,510' |
| Bone Spring Lime | 9,007' |
| Leonard (Avalon) Shale | 9,039' |
| 1st Bone Spring Sand | 9,970' |
| 2nd Bone Spring Shale | 10,175' |
| 2nd Bone Spring Sand | 10,499' |
| 3rd Bone Spring Carb | 10,935' |
| 3rd Bone Spring Sand | 11,617' |
| Wolfcamp | 12,068' |
| TD | 9,730' |
| | |

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

| Upper Permian Sands | 0- 400' | Fresh Wa |
|------------------------|---------|----------|
| Bell Canyon | 4,840' | Oil |
| Cherry Canyon | 5,914' | Oil |
| Brushy Canyon | 7,510' | Oil |
| Leonard (Avalon) Shale | 9,039' | Oil |
| 1st Bone Spring Sand | 9,970' | Oil |
| 2nd Bone Spring Shale | 10,175' | Oil |
| 2nd Bone Spring Sand | 10,499' | Oil |

PDF

10.750 40.50/0.350 J55

New Search »

« Back to Previous List

USC Metric

6/8/2015 10:14:05 AM

| Mechanical Properties | Ptpe | втс | LTC | STC | |
|--|--------|--------|-----|--------|----------|
| Minimum Yield Strength | 55,000 | - | - | - | psi |
| Maximum Yield Strength | 80,000 | - | | | psi |
| Minimum Tensile Strength | 75,000 | - | - | - | psi |
| Dimensions | Ріре | втс | LTC | STC | |
| Outside Diameter | 10.750 | 11.750 | - | 11.750 | in. |
| Wall Thickness | 0.350 | - | - | - | in. |
| Inside Diameter | 10.050 | 10.050 | - | 10.050 | in. |
| Standard Drift | 9.894 | 9.894 | - | 9.894 | in. |
| Alternate Drift | - | 1 | - | - | in. |
| Nominal Linear Weight, T&C | 40.50 | - | | | lbs/ft |
| Plain End Weight | 38.91 | - | - | - | lbs/ft |
| Performance | Pipe | втс | LTC | STC | |
| Minimum Collapse Pressure | 1,580 | 1,580 | - | 1,580 | psi |
| Minimum Internal Yield Pressure | 3,130 | 3,130 | - | 3,130 | psi |
| Minimum Pipe Body Yield Strength | 629.00 | 1 | - | - | 1000 lbs |
| Joint Strength | | 700 | - | 420 | 1000 lbs |
| Reference Length | - | 11,522 | - | 6,915 | ft |
| Make-Up Data | Ріре | втс | LTC | STC | |
| Make-Up Loss | | 4.81 | - | 3.50 | in. |
| Minimum Make-Up Torque | | - | | 3,150 | ft-lbs |
| Released to Imaging: 3/12/2024 9:11:05 AM Maximum Make-Up Torque | - | - | - | 5,250 | ft-lbs |



API 5CT, 10th Ed. Connection Data Sheet

| O.D. (in) | WEIGHT | (lb/ft) | WALL (in) | GRADE | *API DRIFT (in) | RBW % |
|------------------|------------------------|----------------|-----------|-------|-----------------|-------|
| 8.625 | Nominal: Plain End: | 32.00 31.13 | 0.352 | J55 | 7.796 | 87.5 |

| Material Properties (PE) | | | | | | | | |
|---------------------------|--------|--|--|--|--|--|--|--|
| Pipe | | | | | | | | |
| Minimum Yield Strength: | 55 ksi | | | | | | | |
| Maximum Yield Strength: | 80 ksi | | | | | | | |
| Minimum Tensile Strength: | 75 ksi | | | | | | | |
| Coupling | | | | | | | | |
| Minimum Yield Strength: | 55 ksi | | | | | | | |
| Maximum Yield Strength: | 80 ksi | | | | | | | |
| Minimum Tensile Strength: | 75 ksi | | | | | | | |

| Pipe Body Data (PE) | | | | | | |
|--|-----------------------|--|--|--|--|--|
| Geometry | | | | | | |
| Nominal ID: | 7.92 inch | | | | | |
| Nominal Area: | 9.149 in ² | | | | | |
| *Special/Alt. Drift: | 7.875 inch | | | | | |
| Performa | nce | | | | | |
| Pipe Body Yield Strength: | 503 kips | | | | | |
| Collapse Resistance: | 2,530 psi | | | | | |
| Internal Yield Pressure: (API Historical) | 3,930 psi | | | | | |

| API Connection Data | | | | | | | | | |
|--------------------------|---------|--------|--|--|--|--|--|--|--|
| Coupling OD: 9.625" | | | | | | | | | |
| STC Performance | | | | | | | | | |
| STC Internal Pressure: | 3,930 | psi | | | | | | | |
| STC Joint Strength: | 372 | kips | | | | | | | |
| LTC Performance | | | | | | | | | |
| LTC Internal Pressure: | 3,930 | psi | | | | | | | |
| LTC Joint Strength: | 417 | kips | | | | | | | |
| SC-BTC Performance - Cpl | lg OD = | 9.125" | | | | | | | |
| | | | | | | | | | |
| BTC Internal Pressure: | 3,930 | psi | | | | | | | |
| BTC Joint Strength: | 503 | kips | | | | | | | |

| API Connection Torque | | | | | | | | | |
|-----------------------|--|---------|-----------------|------|-------|--|--|--|--|
| | STC Torque (ft-lbs) | | | | | | | | |
| Min: | 2,793 | Opti: | 3,724 | Max: | 4,655 | | | | |
| | | | | | | | | | |
| | LTC Torque (ft-lbs) | | | | | | | | |
| Min: | 3,130 | Opti: | 4,174 | Max: | 5,217 | | | | |
| | | | | | | | | | |
| | _ | NTO T | /£ 4 IIa | - 1 | | | | | |
| | | SIC Ior | que (ft-lk |)S) | | | | | |
| follo | follow API guidelines regarding positional make up | | | | | | | | |
| | | | | | | | | | |

*Alt. Drift will be used unless API Drift is specified on order.

**If above API connections do not suit your needs, VAM® premium connections are available up to 100% of pipe body ratings.

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Rev 3, 7/30/2021 POSSIBILITY OF SUCH DAMAGES. 10/21/2022 15:24



API 5CT, 10th Ed. Connection Data Sheet

| O.D. (in) | WEIGHT | (lb/ft) | WALL (in) | GRADE | *API DRIFT (in) | RBW % |
|------------------|------------------------|----------------|-----------|--------|-----------------|-------|
| 8.625 | Nominal: Plain End: | 32.00 31.13 | 0.352 | P110EC | 7.796 | 87.5 |

| Material Properties | (PE) |
|---------------------------|---------------|
| Pipe | |
| Minimum Yield Strength: | 125 ksi |
| Maximum Yield Strength: | 140 ksi |
| Minimum Tensile Strength: | 135 ksi |
| Coupling | |
| Minimum Yield Strength: | 125 ksi |
| Maximum Yield Strength: | 140 ksi |
| Minimum Tensile Strength: | 135 ksi |
| THIS SIZE/CDADE | IC NOT VALIDA |

| Pipe Body Data (PE) | | | | | | | |
|--|-----------------------|--|--|--|--|--|--|
| Geometry | | | | | | | |
| Nominal ID: | 7.92 inch | | | | | | |
| Nominal Area: | 9.149 in ² | | | | | | |
| *Special/Alt. Drift: | 7.875 inch | | | | | | |
| Performand | ce | | | | | | |
| Pipe Body Yield Strength: | 1,144 kips | | | | | | |
| Collapse Resistance: | 4,000 psi | | | | | | |
| Internal Yield Pressure: (API Historical) | 8,930 psi | | | | | | |

THIS SIZE/GRADE IS NOT VALIDATED BY API TO HAVE AN API CONNECTION

| API Connection Data Coupling OD: 9.625" | | | | | | | | |
|---|-------------|--------|--|--|--|--|--|--|
| STC Performance | | | | | | | | |
| STC Internal Pressure: | 8,930 | psi | | | | | | |
| STC Joint Strength: | 793 | kips | | | | | | |
| LTC Perfor | rmance | | | | | | | |
| LTC Internal Pressure: | 8,930 | psi | | | | | | |
| LTC Joint Strength: | 887 | kips | | | | | | |
| SC-BTC Performance - | - Cplg OD = | 9.125" | | | | | | |
| BTC Internal Pressure: | 6,340 | psi | | | | | | |
| BTC Joint Strength: | 1,120 | kips | | | | | | |

| | API Connection Torque | | | | | | | | |
|-------|--|-------------|-------------|------------|--------|--|--|--|--|
| | STC Torque (ft-lbs) | | | | | | | | |
| Min: | 5,948 | Opti: | 7,930 | Max: | 9,913 | | | | |
| | | | | | | | | | |
| | | LTC Tor | que (ft-lb | s) | | | | | |
| Min: | 6,653 | Opti: | 8,870 | Max: | 11,088 | | | | |
| | | | | | | | | | |
| | ı | RTC Tor | rauo (ft lb | ic) | | | | | |
| £-11 | BTC Torque (ft-lbs) follow API guidelines regarding positional make up | | | | | | | | |
| follo | ow API gui | iaeiines re | garaing pos | itional ma | ке ир | | | | |
| | | | | | | | | | |

*Alt. Drift will be used unless API Drift is specified on order.

**If above API connections do not suit your needs, VAM® premium connections are available up to 100% of pipe body ratings.

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Rev 3, 7/30/2021 POSSIBILITY OF SUCH DAMAGES. 10/26/2022 14:52



Midland

Lea County, NM (NAD 83 NME) Audacious 19 Fed Com #202H

OH

Plan: Plan #0.1 RT

Standard Planning Report

11 December, 2023



Database: Company: PEDM

Midland

Project: Lea County, NM (NAD 83 NME)

Audacious 19 Fed Com Site: #202H

Well: Wellbore:

OH

Plan #0.1 RT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #202H

kb = 26' @ 3477.0usft kb = 26' @ 3477.0usft

Grid

Minimum Curvature

Project Lea County, NM (NAD 83 NME)

Map System: Geo Datum:

Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Audacious 19 Fed Com Site

Site Position: From:

Мар

Northing: Easting:

406,706.00 usft 765,298.00 usft

Latitude: Longitude:

32° 6' 57.772 N 103° 36' 35.813 W

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well #202H

Well Position +N/-S +E/-W

0.0 usft 0.0 usft 0.0 usft

Northing: Easting: Wellhead Elevation:

405,783.00 usft 764,589.00 usft usft Latitude: Longitude: **Ground Level:**

32° 6' 48.685 N 103° 36' 44.129 W 3,451.0 usft

0.38 **Grid Convergence:**

ОН Wellbore

Position Uncertainty

Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) 47,164.72687031 IGRF2020 12/11/2023 6.26 59.71

Design Plan #0.1 RT

Audit Notes:

Version:

Vertical Section:

Phase: Depth From (TVD)

(usft)

0.0

PLAN

+N/-S (usft)

0.0

Tie On Depth: +E/-W (usft)

0.0

0.0 Direction

(°) 171.17

Plan Survey Tool Program

Date 12/11/2023

Depth From (usft)

0.0

Depth To (usft) 17,449.4

Survey (Wellbore)

Plan #0.1 RT (OH) EOG MWD+IFR1

Tool Name

Remarks

MWD + IFR1



Database: Company: PEDM

Midland Lea County, NM (NAD 83 NME)

Project: Lea County, NM (NAD 8 Site: Audacious 19 Fed Com

Well: #202H Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #202H

kb = 26' @ 3477.0usft kb = 26' @ 3477.0usft

Grid

| Plan Sections | | | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,244.0 | 0.00 | 0.00 | 1,244.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,925.3 | 13.63 | 48.87 | 1,918.9 | 53.0 | 60.7 | 2.00 | 2.00 | 0.00 | 48.87 | |
| 6,983.9 | 13.63 | 48.87 | 6,835.1 | 837.0 | 958.3 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,665.2 | 0.00 | 0.00 | 7,510.0 | 890.0 | 1,019.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 9,407.7 | 0.00 | 0.00 | 9,252.5 | 890.0 | 1,019.0 | 0.00 | 0.00 | 0.00 | 0.00 | KOP(Audacious 19 Fe |
| 9,628.1 | 26.46 | 180.00 | 9,465.2 | 840.0 | 1,019.0 | 12.00 | 12.00 | 81.65 | 180.00 | FTP(Audacious 19 Fe |
| 10,157.6 | 90.00 | 179.62 | 9,729.9 | 412.6 | 1,021.0 | 12.00 | 12.00 | -0.07 | -0.43 | |
| 12,269.2 | 90.00 | 179.62 | 9,730.0 | -1,699.0 | 1,035.0 | 0.00 | 0.00 | 0.00 | 0.00 | Fed Perf 1(Audacious |
| 17,449.4 | 90.00 | 179.65 | 9,730.0 | -6,879.0 | 1,068.0 | 0.00 | 0.00 | 0.00 | 84.60 | PBHL(Audacious 19 F |



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)
Site: Audacious 19 Fed Com

Well: #202H Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #202H

kb = 26' @ 3477.0usft kb = 26' @ 3477.0usft

Grid

| Jesigii. | Fiail #0.1 IXI | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| Planned Survey | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| F00.0 | 0.00 | 0.00 | F00.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 0.008 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,244.0 | 0.00 | 0.00 | 1,244.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 1.12 | 48.87 | 1,300.0 | 0.4 | 0.4 | -0.3 | 2.00 | 2.00 | 0.00 |
| 1,300.0 | 1.12 | 40.07 | 1,300.0 | 0.4 | 0.4 | -0.5 | 2.00 | 2.00 | 0.00 |
| 1,400.0 | 3.12 | 48.87 | 1,399.9 | 2.8 | 3.2 | -2.3 | 2.00 | 2.00 | 0.00 |
| 1,500.0 | 5.12 | 48.87 | 1,499.7 | 7.5 | 8.6 | -6.1 | 2.00 | 2.00 | 0.00 |
| 1,600.0 | 7.12 | 48.87 | 1,599.1 | 14.5 | 16.6 | -11.8 | 2.00 | 2.00 | 0.00 |
| | | | | | | | | | |
| 1,700.0 | 9.12 | 48.87 | 1,698.1 | 23.8 | 27.3 | -19.4 | 2.00 | 2.00 | 0.00 |
| 1,800.0 | 11.12 | 48.87 | 1,796.5 | 35.4 | 40.5 | -28.7 | 2.00 | 2.00 | 0.00 |
| 1,900.0 | 13.12 | 48.87 | 1,894.3 | 49.2 | 56.3 | -40.0 | 2.00 | 2.00 | 0.00 |
| 1,925.3 | 13.63 | 48.87 | 1,918.9 | 53.0 | 60.7 | -43.1 | 2.00 | 2.00 | 0.00 |
| 2,000.0 | 13.63 | 48.87 | 1,991.5 | 64.6 | 74.0 | -52.5 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 13.63 | 48.87 | 2,088.7 | 80.1 | 91.7 | -65.1 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 2,200.0 | 13.63 | 48.87 | 2,185.9 | 95.6 | 109.5 | -77.7 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 13.63 | 48.87 | 2,283.1 | 111.1 | 127.2 | -90.3 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 13.63 | 48.87 | 2,380.2 | 126.6 | 145.0 | -102.9 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 13.63 | 48.87 | 2,477.4 | 142.1 | 162.7 | -115.5 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | | 48.87 | | | 180.4 | -128.0 | 0.00 | | |
| | 13.63 | | 2,574.6 | 157.6 | | | | 0.00 | 0.00 |
| 2,700.0 | 13.63 | 48.87 | 2,671.8 | 173.1 | 198.2 | -140.6 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 13.63 | 48.87 | 2,769.0 | 188.6 | 215.9 | -153.2 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 13.63 | 48.87 | 2,866.2 | 204.1 | 233.7 | -165.8 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 3,000.0 | 13.63 | 48.87 | 2,963.3 | 219.6 | 251.4 | -178.4 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 13.63 | 48.87 | 3,060.5 | 235.1 | 269.2 | -191.0 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 13.63 | 48.87 | 3,157.7 | 250.6 | 286.9 | -203.6 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 13.63 | 48.87 | 3,254.9 | 266.1 | 304.6 | -216.2 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 13.63 | 48.87 | 3,352.1 | 281.6 | 322.4 | -228.8 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 3,500.0 | 13.63 | 48.87 | 3,449.3 | 297.1 | 340.1 | -241.4 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 13.63 | 48.87 | 3,546.5 | 312.6 | 357.9 | -254.0 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 13.63 | 48.87 | 3,643.6 | 328.1 | 375.6 | -266.6 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 13.63 | 48.87 | 3,740.8 | 343.6 | 393.4 | -279.1 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 13.63 | 48.87 | 3,838.0 | 359.1 | 411.1 | -291.7 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 13.63 | 48.87 | 3,935.2 | 374.6 | 428.8 | -304.3 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 13.63 | 48.87 | 4,032.4 | 390.1 | 446.6 | -316.9 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 4,200.0 | 13.63 | 48.87 | 4,129.6 | 405.5 | 464.3 | -329.5 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 13.63 | 48.87 | 4,226.8 | 421.0 | 482.1 | -342.1 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 13.63 | 48.87 | 4,323.9 | 436.5 | 499.8 | -354.7 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 13.63 | 48.87 | 4,421.1 | 452.0 | 517.6 | -367.3 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | | | | | | | | | |
| | 13.63 | 48.87 | 4,518.3 | 467.5 | 535.3 | -379.9 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 13.63 | 48.87 | 4,615.5 | 483.0 | 553.0 | -392.5 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 13.63 | 48.87 | 4,712.7 | 498.5 | 570.8 | -405.1 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 13.63 | 48.87 | 4,809.9 | 514.0 | 588.5 | -417.6 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 13.63 | 48.87 | 4,907.1 | 529.5 | 606.3 | -430.2 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 5,100.0 | 13.63 | 48.87 | 5,004.2 | 545.0 | 624.0 | -442.8 | 0.00 | 0.00 | 0.00 |



Database: Company:

Project:

PEDM Midland

Lea County, NM (NAD 83 NME)

Site: Audacious 19 Fed Com

Well: #202H Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #202H

kb = 26' @ 3477.0usft

kb = 26' @ 3477.0usft

Grid

| Design: | Plan #0.1 RT | | | | | | | | |
|-----------------------|------------------------|------------------|-----------------------------|-----------------|--------------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| Planned Survey | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 5,200.0 | 13.63 | 48.87 | 5,101.4 | 560.5 | 641.8 | -455.4 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 13.63 | 48.87 | 5,198.6 | 576.0 | 659.5 | -468.0 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 13.63 | 48.87 | 5,295.8 | 591.5 | 677.2 | -480.6 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 13.63 | 48.87 | 5,393.0 | 607.0 | 695.0 | -493.2 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 13.63 | 48.87 | 5,490.2 | 622.5 | 712.7 | -505.8 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 13.63 | 48.87 | 5,587.4 | 638.0 | 730.5 | -518.4 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 13.63 | 48.87 | 5,684.5 | 653.5 | 748.2 | -531.0 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 13.63 | 48.87 | 5,781.7 | 669.0 | 766.0 | -543.6 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 13.63 | 48.87 | 5,878.9 | 684.5 | 783.7 | -556.2 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 13.63 | 48.87 | 5,976.1 | 700.0 | 801.4 | -568.7 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 13.63 | 48.87 | 6,073.3 | 715.5 | 819.2 | -581.3 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 13.63 | 48.87 | 6,170.5 | 731.0 | 836.9 | -593.9 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 13.63 | 48.87 | 6,267.7 | 746.5 | 854.7 | -606.5 | 0.00 | 0.00 | 0.00 |
| 6,500.0 6,600.0 | 13.63 | 48.87 48.87 | 6,364.8 6,462.0 | 762.0 | 872.4 890.2 | -619.1 -631.7 | 0.00 0.00 | 0.00 | 0.00 |
| 6,600.0 6,700.0 | 13.63 13.63 | 48.87 48.87 | 6,462.0 6,559.2 | 777.5 793.0 | 890.2 907.9 | -631.7 -644.3 | 0.00 | 0.00 0.00 | 0.00 0.00 |
| • | | | | | | | | | |
| 6,800.0 6,900.0 | 13.63 13.63 | 48.87 48.87 | 6,656.4 6.753.6 | 808.5 824.0 | 925.6 943.4 | -656.9 -669.5 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 6,983.9 | 13.63 | 46.67 48.87 | 6,835.1 | 837.0 | 943.4 958.3 | -680.0 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 13.30 | 48.87 | 6,850.8 | 839.4 | 961.1 | -682.0 | 2.00 | -2.00 | 0.00 |
| 7,100.0 | 11.30 | 48.87 | 6,948.5 | 853.4 | 977.1 | -693.4 | 2.00 | -2.00 | 0.00 |
| 7,200.0 | 9.30 | 48.87 | 7,046.9 | 865.2 | 990.6 | -703.0 | 2.00 | -2.00 | 0.00 |
| 7,300.0 | 7.30 | 48.87 | 7,145.8 | 874.7 | 1,001.5 | -710.7 | 2.00 | -2.00 | 0.00 |
| 7,400.0 | 5.30 | 48.87 | 7,245.2 | 881.9 | 1,009.8 | -716.6 | 2.00 | -2.00 | 0.00 |
| 7,500.0 | 3.30 | 48.87 | 7,344.9 | 886.9 | 1,015.4 | -720.6 | 2.00 | -2.00 | 0.00 |
| 7,600.0 | 1.30 | 48.87 | 7,444.8 | 889.5 | 1,018.4 | -722.7 | 2.00 | -2.00 | 0.00 |
| 7,665.2 | 0.00 | 0.00 | 7,510.0 | 890.0 | 1,019.0 | -723.1 | 2.00 | -2.00 | 0.00 |
| 7,700.0 | 0.00 | 0.00 | 7,544.8 | 890.0 | 1,019.0 | -723.1 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 0.00 | 0.00 | 7,644.8 | 890.0 | 1,019.0 | -723.1 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 0.00 | 0.00 | 7,744.8 | 890.0 | 1,019.0 | -723.1 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 0.00 | 0.00 | 7,844.8 | 890.0 | 1,019.0 | -723.1 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 0.00 | 0.00 | 7,944.8 | 890.0 | 1,019.0 | -723.1 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 0.00 | 0.00 | 8,044.8 | 890.0 | 1,019.0 | -723.1 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 0.00 | 0.00 | 8,144.8 | 890.0 | 1,019.0 | -723.1 | 0.00 | 0.00 | 0.00 |
| 8,400.0 8,500.0 | 0.00 0.00 | 0.00 0.00 | 8,244.8 8,344.8 | 890.0 890.0 | 1,019.0 1,019.0 | -723.1 -723.1 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| | | | | | | | | | |
| 8,600.0 | 0.00 | 0.00 | 8,444.8 | 890.0 | 1,019.0 | -723.1 | 0.00 | 0.00 | 0.00 |
| 8,700.0 8,800.0 | 0.00 0.00 | 0.00 0.00 | 8,544.8 8,644.8 | 890.0 890.0 | 1,019.0 1,019.0 | -723.1 -723.1 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 8,900.0 | 0.00 | 0.00 | 8,744.8 | 890.0 | 1,019.0 | -723.1 -723.1 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 0.00 | 0.00 | 8,844.8 | 890.0 | 1,019.0 | -723.1 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 0.00 | 0.00 | 8,944.8 | 890.0 | 1,019.0 | -723.1 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 0.00 | 0.00 | 9,044.8 | 890.0 | 1,019.0 | -723.1 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 0.00 | 0.00 | 9,144.8 | 890.0 | 1,019.0 | -723.1 | 0.00 | 0.00 | 0.00 |
| 9,407.7 | 0.00 | 0.00 | 9,252.5 | 890.0 | 1,019.0 | -723.1 | 0.00 | 0.00 | 0.00 |
| • | ous 19 Fed Com 2.08 | • | 0.260.9 | 889.7 | 1.010.0 | 700 0 | 12.00 | 12.00 | 0.00 |
| 9,425.0 | | 180.00 | 9,269.8 | | 1,019.0 | -722.8 | | 12.00 | |
| 9,450.0 | 5.08 | 180.00 | 9,294.8 | 888.1 | 1,019.0 | -721.3 | 12.00 | 12.00 | 0.00 |
| 9,475.0 | 8.08 | 180.00 | 9,319.6 | 885.3 | 1,019.0 | -718.4 | 12.00 | 12.00 | 0.00 |
| 9,500.0 9,525.0 | 11.08 14.08 | 180.00 180.00 | 9,344.2 9,368.6 | 881.1 875.7 | 1,019.0 1,019.0 | -714.3 -709.0 | 12.00 12.00 | 12.00 12.00 | 0.00 0.00 |
| 9,525.0 9,550.0 | 17.08 | 180.00 | 9,306.0 | 868.9 | 1,019.0 | -709.0 -702.3 | 12.00 | 12.00 | 0.00 |
| 9,575.0 | 20.08 | | | 861.0 | | -694.5 | 12.00 | 12.00 | 0.00 |
| 9,575.0 | 20.08 | 180.00 | 9,416.4 | 0.100 | 1,019.0 | -094.5 | 12.00 | 12.00 | 0.00 |



Database: Company: PEDM

Midland

Project:

Lea County, NM (NAD 83 NME)

Site: Audacious 19 Fed Com

Well: Wellbore: #202H OH

Design:

Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #202H

kb = 26' @ 3477.0usft kb = 26' @ 3477.0usft

Grid

| nned Su | urvey | | | | | | | | | |
|---------|----------------------------|--------------------|------------------|-----------------------------|-----------------|--------------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| | easured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| | 9,600.0 | 23.08 | 180.00 | 9,439.7 | 851.8 | 1,019.0 | -685.4 | 12.00 | 12.00 | 0.00 |
| | 9,625.0 | 26.08 | 180.00 | 9,462.4 | 841.4 | 1,019.0 | -675.1 | 12.00 | 12.00 | 0.00 |
| | 9,628.1 | 26.46 | 180.00 | 9,465.2 | 840.0 | 1,019.0 | -673.7 | 12.00 | 12.00 | 0.00 |
| F | TP(Audacio | ous 19 Fed Com | #202H) | | | | | | | |
| | 9,650.0 | 29.08 | 179.96 | 9,484.6 | 829.8 | 1,019.0 | -663.7 | 12.00 | 12.00 | -0.18 |
| | 0.075.0 | 20.00 | | | | 1.010.0 | | | | |
| | 9,675.0 9,700.0 | 32.08 35.08 | 179.92 | 9,506.1 9,526.9 | 817.1 803.3 | 1,019.0 1,019.0 | -651.1 | 12.00 | 12.00 12.00 | -0.15 |
| | | | 179.89 | | | | -637.4 | 12.00 | | -0.13 |
| | 9,725.0 9,750.0 | 38.08 41.08 | 179.86 179.84 | 9,547.0 9,566.2 | 788.4 772.4 | 1,019.1 1,019.1 | -622.7 -606.9 | 12.00 12.00 | 12.00 12.00 | -0.11 -0.10 |
| | 9,775.0 | 44.08 | 179.81 | 9,584.6 | 755.5 | 1,019.1 | -590.2 | 12.00 | 12.00 | -0.10 |
| | | | | | | | | | | |
| | 9,800.0 | 47.08 | 179.80 | 9,602.1 | 737.7 | 1,019.2 | -572.6 | 12.00 | 12.00 | -0.08 |
| | 9,825.0 | 50.08 | 179.78 | 9,618.7 | 718.9 | 1,019.3 | -554.0 | 12.00 | 12.00 | -0.07 |
| | 9,850.0 | 53.08 | 179.76 | 9,634.2 | 699.3 | 1,019.4 | -534.7 | 12.00 | 12.00 | -0.06 |
| | 9,875.0 | 56.08 | 179.75 | 9,648.7 | 679.0 | 1,019.5 | -514.5 | 12.00 | 12.00 | -0.06 |
| | 9,900.0 | 59.08 | 179.73 | 9,662.1 | 657.9 | 1,019.6 | -493.7 | 12.00 | 12.00 | -0.06 |
| | 9,925.0 | 62.08 | 179.72 | 9,674.4 | 636.1 | 1,019.7 | -472.1 | 12.00 | 12.00 | -0.05 |
| | 9,950.0 | 65.08 | 179.71 | 9,685.5 | 613.7 | 1,019.8 | -450.0 | 12.00 | 12.00 | -0.05 |
| | 9,975.0 | 68.08 | 179.70 | 9,695.4 | 590.8 | 1,019.9 | -427.3 | 12.00 | 12.00 | -0.05 |
| | 10,000.0 | 71.08 | 179.68 | 9,704.2 | 567.3 | 1,020.0 | -404.1 | 12.00 | 12.00 | -0.05 |
| | 10,025.0 | 74.08 | 179.67 | 9,711.6 | 543.5 | 1,020.2 | -380.6 | 12.00 | 12.00 | -0.04 |
| | 10,050.0 | 77.08 | 179.66 | 9,717.9 | 519.3 | 1,020.3 | -356.6 | 12.00 | 12.00 | -0.04 |
| | 10,000.0 | 80.08 | 179.65 | 9,722.8 | 494.8 | 1,020.4 | -332.4 | 12.00 | 12.00 | -0.04 |
| | 10,100.0 | 83.08 | 179.64 | 9,726.5 | 470.1 | 1,020.6 | -307.9 | 12.00 | 12.00 | -0.04 |
| | 10,125.0 | 86.08 | 179.63 | 9,728.8 | 445.2 | 1,020.8 | -283.3 | 12.00 | 12.00 | -0.04 |
| | 10,150.0 | 89.08 | 179.62 | 9,729.9 | 420.2 | 1,020.9 | -258.6 | 12.00 | 12.00 | -0.04 |
| | | | | | | | | | | |
| | 10,157.6 | 90.00 | 179.62 | 9,729.9 | 412.6 | 1,021.0 | -251.0 | 12.00 | 12.00 | -0.04 |
| | 10,200.0 | 90.00 | 179.62 | 9,729.9 | 370.2 | 1,021.2 | -209.1 | 0.00 | 0.00 | 0.00 |
| | 10,300.0 | 90.00 | 179.62 | 9,729.9 | 270.2 | 1,021.9 | -110.2 | 0.00 | 0.00 | 0.00 |
| | 10,400.0 10,500.0 | 90.00 90.00 | 179.62 179.62 | 9,730.0 9,730.0 | 170.2 70.2 | 1,022.6 1,023.2 | -11.3 87.6 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| | 10,500.0 | | 179.02 | | 70.2 | | | | | |
| | 10,600.0 | 90.00 | 179.62 | 9,730.0 | -29.8 | 1,023.9 | 186.5 | 0.00 | 0.00 | 0.00 |
| | 10,700.0 | 90.00 | 179.62 | 9,730.0 | -129.8 | 1,024.6 | 285.4 | 0.00 | 0.00 | 0.00 |
| | 10,800.0 | 90.00 | 179.62 | 9,730.0 | -229.8 | 1,025.2 | 384.4 | 0.00 | 0.00 | 0.00 |
| | 10,900.0 | 90.00 | 179.62 | 9,730.0 | -329.8 | 1,025.9 | 483.3 | 0.00 | 0.00 | 0.00 |
| | 11,000.0 | 90.00 | 179.62 | 9,730.0 | -429.8 | 1,026.6 | 582.2 | 0.00 | 0.00 | 0.00 |
| | 11,100.0 | 90.00 | 179.62 | 9,730.0 | -529.8 | 1,027.2 | 681.1 | 0.00 | 0.00 | 0.00 |
| | 11,200.0 | 90.00 | 179.62 | 9,730.0 | -629.8 | 1,027.9 | 780.0 | 0.00 | 0.00 | 0.00 |
| | 11,300.0 | 90.00 | 179.62 | 9,730.0 | -729.8 | 1,028.6 | 878.9 | 0.00 | 0.00 | 0.00 |
| | 11,400.0 | 90.00 | 179.62 | 9,730.0 | -829.8 | 1,029.2 | 977.8 | 0.00 | 0.00 | 0.00 |
| | 11,500.0 | 90.00 | 179.62 | 9,730.0 | -929.8 | 1,029.9 | 1,076.8 | 0.00 | 0.00 | 0.00 |
| | 11,600.0 | 90.00 | 179.62 | 9,730.0 | -1,029.8 | 1,030.6 | 1,175.7 | 0.00 | 0.00 | 0.00 |
| | 11,700.0 | 90.00 | 179.62 | 9,730.0 | -1,129.8 | 1,030.0 | 1,173.7 | 0.00 | 0.00 | 0.00 |
| | 11,800.0 | 90.00 | 179.62 | 9,730.0 | -1,229.8 | 1,031.9 | 1,373.5 | 0.00 | 0.00 | 0.00 |
| | 11,900.0 | 90.00 | 179.62 | 9,730.0 | -1,329.8 | 1,032.5 | 1,472.4 | 0.00 | 0.00 | 0.00 |
| | 12,000.0 | 90.00 | 179.62 | 9,730.0 | -1,429.8 | 1,033.2 | 1,571.3 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | |
| | 12,100.0 | 90.00 | 179.62 | 9,730.0 | -1,529.8 | 1,033.9 | 1,670.3 | 0.00 | 0.00 | 0.00 |
| | 12,200.0 | 90.00 | 179.62 | 9,730.0 | -1,629.8 | 1,034.5 | 1,769.2 | 0.00 | 0.00 | 0.00 |
| | 12,269.2 | 90.00 | 179.62 | 9,730.0 | -1,699.0 | 1,035.0 | 1,837.7 | 0.00 | 0.00 | 0.00 |
| F | • | udacious 19 Fed | • | 0 ==== | | 4 | 1.000 / | | | |
| | 12,300.0 | 90.00 | 179.62 | 9,730.0 | -1,729.8 | 1,035.2 | 1,868.1 | 0.00 | 0.00 | 0.00 |
| | 12,400.0 | 90.00 | 179.62 | 9,730.0 | -1,829.7 | 1,035.9 | 1,967.0 | 0.00 | 0.00 | 0.00 |
| | 12,500.0 | 90.00 | 179.62 | 9,730.0 | -1,929.7 | 1,036.5 | 2,065.9 | 0.00 | 0.00 | 0.00 |
| | 12,600.0 | 90.00 | 179.62 | 9,730.0 | -2,029.7 | 1,037.2 | 2,164.8 | 0.00 | 0.00 | 0.00 |
| | 12,700.0 | 90.00 | 179.62 | 9,730.0 | -2,129.7 | 1,037.9 | 2,263.8 | 0.00 | 0.00 | 0.00 |



Database: P Company: M

Project:

PEDM Midland

Lea County, NM (NAD 83 NME)

Site: Audacious 19 Fed Com

Well: #202H Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #202H

kb = 26' @ 3477.0usft

kb = 26' @ 3477.0usft Grid

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------------|--------------------|------------------|-----------------------------|----------------------|--------------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 12,800.0 12,900.0 | 90.00 90.00 | 179.62 179.62 | 9,730.0 9,730.0 | -2,229.7 -2,329.7 | 1,038.5 1,039.2 | 2,362.7 2,461.6 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 13,000.0 | 90.00 | 179.62 | 9,730.0 | -2,429.7 | 1,039.8 | 2,560.5 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.00 | 179.62 | 9,730.0 | -2,529.7 | 1,040.5 | 2,659.4 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 179.62 | 9,730.0 | -2,629.7 | 1,041.1 | 2,758.3 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 179.63 | 9,730.0 | -2,729.7 | 1,041.8 | 2,857.2 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 179.63 | 9,730.0 | -2,829.7 | 1,042.4 | 2,956.2 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 179.63 | 9,730.0 | -2,929.7 | 1,043.1 | 3,055.1 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 179.63 | 9,730.0 | -3,029.7 | 1,043.8 | 3,154.0 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 179.63 | 9,730.0 | -3,129.7 | 1,044.4 | 3,252.9 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 179.63 | 9,730.0 | -3,229.7 | 1,045.0 | 3,351.8 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 179.63 | 9,730.0 | -3,329.7 | 1,045.7 | 3,450.7 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 179.63 | 9,730.0 | -3,429.7 | 1,046.3 | 3,549.6 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 179.63 | 9,730.0 | -3,529.7 | 1,047.0 | 3,648.6 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 179.63 | 9,730.0 | -3,629.7 | 1,047.6 | 3,747.5 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 179.63 | 9,730.0 | -3,729.7 | 1,048.3 | 3,846.4 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 179.63 | 9,730.0 | -3,829.7 | 1,048.9 | 3,945.3 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 179.63 | 9,730.0 | -3,929.7 | 1,049.6 | 4,044.2 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 179.63 | 9,730.0 | -4,029.7 | 1,050.2 | 4,143.1 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 179.63 | 9,730.0 | -4,129.7 | 1,050.8 | 4,242.0 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 179.63 | 9,730.0 | -4,229.7 | 1,051.5 | 4,340.9 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 179.64 | 9,730.0 | -4,329.7 | 1,052.1 | 4,439.9 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 179.64 | 9,730.0 | -4,429.7 | 1,052.8 | 4,538.8 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 179.64 | 9,730.0 | -4,529.7 | 1,053.4 | 4,637.7 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 179.64 | 9,730.0 | -4,629.7 | 1,054.0 | 4,736.6 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 179.64 | 9,730.0 | -4,729.7 | 1,054.7 | 4,835.5 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.00 | 179.64 | 9,730.0 | -4,829.7 | 1,055.3 | 4,934.4 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 179.64 | 9,730.0 | -4,929.7 | 1,055.9 | 5,033.3 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 179.64 | 9,730.0 | -5,029.7 | 1,056.5 | 5,132.2 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 179.64 | 9,730.0 | -5,129.7 | 1,057.2 | 5,231.1 | 0.00 | 0.00 | 0.00 |
| 15,800.0 15,900.0 | 90.00 90.00 | 179.64 179.64 | 9,730.0 9,730.0 | -5,229.7 -5,329.7 | 1,057.8 1,058.4 | 5,330.1 5,429.0 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| | | | | | | | | | |
| 16,000.0 16,100.0 | 90.00 90.00 | 179.64 179.64 | 9,730.0 | -5,429.7 5,520.7 | 1,059.1 | 5,527.9 5,626.8 | 0.00 | 0.00 | 0.00 |
| 16,100.0 16,200.0 | 90.00 | 179.64 | 9,730.0 9,730.0 | -5,529.7 -5,629.7 | 1,059.7 1,060.3 | 5,626.8 5,725.7 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 16,300.0 | 90.00 | 179.64 | 9,730.0 | -5,029.7 -5,729.7 | 1,060.3 | 5,824.6 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 179.64 | 9,730.0 | -5,829.7 | 1,061.5 | 5,923.5 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 179.65 | 9,730.0 | -5,929.7 | 1,062.2 | 6,022.4 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 179.65 | 9,730.0 | -6,029.7 | 1,062.8 | 6,121.3 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 179.65 | 9,730.0 | -6,129.7 | 1,063.4 | 6,220.2 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 179.65 | 9,730.0 | -6,229.7 | 1,064.0 | 6,319.1 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 179.65 | 9,730.0 | -6,329.7 | 1,064.6 | 6,418.1 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 179.65 | 9,730.0 | -6,429.7 | 1,065.3 | 6,517.0 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 179.65 | 9,730.0 | -6,529.7 | 1,065.9 | 6,615.9 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 90.00 | 179.65 | 9,730.0 | -6,629.7 | 1,066.5 | 6,714.8 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 90.00 | 179.65 | 9,730.0 | -6,729.7 | 1,067.1 | 6,813.7 | 0.00 | 0.00 | 0.00 |
| 17,400.0 | 90.00 | 179.65 | 9,730.0 | -6,829.6 | 1,067.7 | 6,912.6 | 0.00 | 0.00 | 0.00 |
| 17,449.4 | 90.00 | 179.65 | 9,730.0 | -6,879.0 | 1,068.0 | 6,961.4 | 0.00 | 0.00 | 0.00 |



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)
Site: Audacious 19 Fed Com

Well: #202H Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

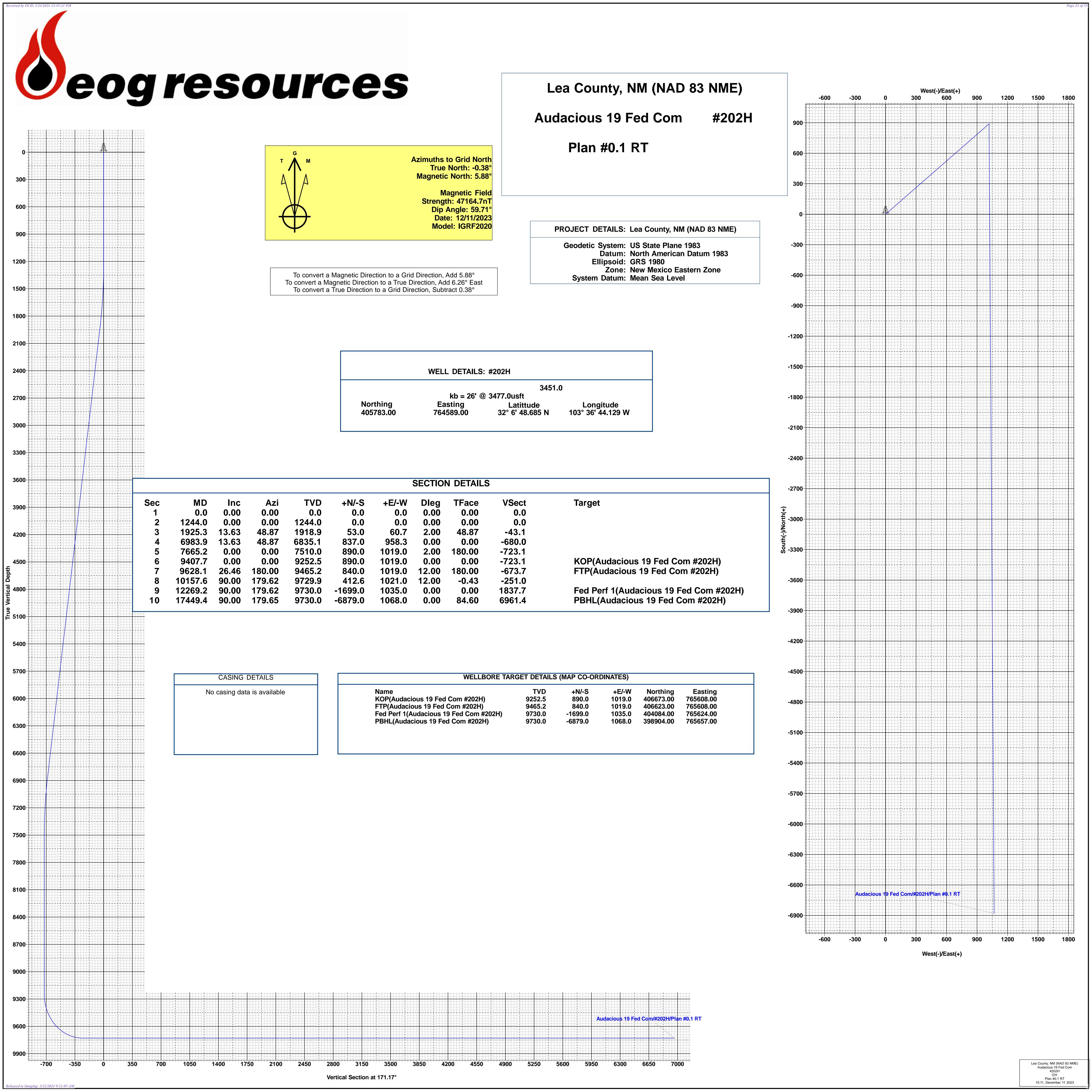
Survey Calculation Method:

Well #202H

kb = 26' @ 3477.0usft kb = 26' @ 3477.0usft

Grid

| Design Targets | | | | | | | | | |
|--|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------------|-------------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| KOP(Audacious 19 Fed - plan hits target cen - Point | 0.00 ter | 0.00 | 9,252.5 | 890.0 | 1,019.0 | 406,673.00 | 765,608.00 | 32° 6′ 57.424 N | 103° 36' 32.211 W |
| FTP(Audacious 19 Fed (- plan hits target cen - Point | 0.00 ter | 0.01 | 9,465.2 | 840.0 | 1,019.0 | 406,623.00 | 765,608.00 | 32° 6′ 56.930 N | 103° 36' 32.215 W |
| Fed Perf 1(Audacious 19 - plan hits target cen - Point | 0.00 ter | 0.00 | 9,730.0 | -1,699.0 | 1,035.0 | 404,084.00 | 765,624.00 | 32° 6′ 31.804 N | 103° 36' 32.228 W |
| PBHL(Audacious 19 Fec - plan hits target cen - Point | | 0.00 | 9,730.0 | -6,879.0 | 1,068.0 | 398,904.00 | 765,657.00 | 32° 5' 40.543 N | 103° 36' 32.249 W |



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: EOG RESOURCES INCORPORATED
WELL NAME & NO.: AUDACIOUS 19 FED COM 202H
SURFACE HOLE FOOTAGE: 1707'/S & 2367'/W
BOTTOM HOLE FOOTAGE LOCATION: Section 19, T.25 S., R.33 E.
COUNTY: Lea County, New Mexico

COA

| H2S | • Yes | O No | |
|----------------------|------------------|----------------|------------------|
| Potash | None | Secretary | © R-111-P |
| Cave/Karst Potential | • Low | O Medium | O High |
| Cave/Karst Potential | Critical | | |
| Variance | O None | Flex Hose | Other |
| Wellhead | Conventional | • Multibowl | O Both |
| Wellhead Variance | O Diverter | | |
| Other | □4 String | ☐ Capitan Reef | □WIPP |
| Other | ☐ Fluid Filled | ☐ Pilot Hole | ☐ Open Annulus |
| Cementing | ☐ Contingency | ☐ EchoMeter | ☐ Primary Cement |
| | Cement Squeeze | | Squeeze |
| Special Requirements | ☐ Water Disposal | ☑ COM | □ Unit |
| Special Requirements | ☐ Batch Sundry | | |
| Special Requirements | Break Testing | ✓ Offline | Casing |
| Variance | | Cementing | Clearance |

A. CASING

Primary Casing Design:

- 1. The **13-3/8** inch surface casing shall be set at approximately **1,030** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch intermediate casing shall be set at approximately 4,760 feet TVD.
 - Mud weight could brine up to 10.2ppg. Reviewed and OK
 - Keep casing full during run for collapse SF

The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The **5-1/2** inch production casing shall be set at approximately **17,449** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Alternative Design:

- 1. The **10-3/4** inch surface casing shall be set at approximately **1,030** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that

string.

2. The 8-5/8 inch intermediate casing shall be set at approximately 4,760 feet TVD. Mud weight can brine up to 10.2ppg and is OK. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The **5-1/2** inch production casing shall be set at approximately **17,449** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system) BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Offline cementing OK for surface and intermediate intervals. Notify the BLM prior to the commencement of any offline cementing procedure.

Casing Clearance:

- Overlap OK
- Salt annular variance not requested.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
 BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822
 - ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 Subpart 3172 must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - e. The results of the test shall be reported to the appropriate BLM office.
 - f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to

the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

KPI 1/13/2024

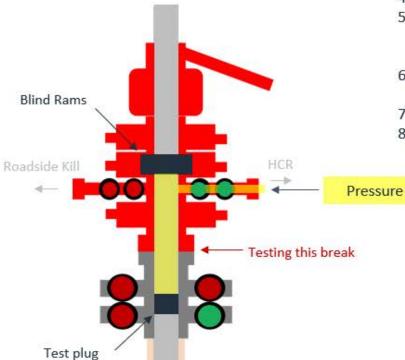


Break-test BOP & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of ECFR Title 43 Part 3172.6(b)(9)(iv) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days.
- This test will be conducted for 5M rated hole intervals only.
- Each rig requesting the break-test variance is capable of picking up the BOP without damaging components using winches, following API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth edition, December 2018, Annex C. Table C.4) which recognizes break testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
 - Annular **à** during each full BOPE test
 - Upper Pipe Rams **à** On trip ins where FIT required
 - Blind Rams **à** Every trip
 - Lower Pipe Rams à during each full BOPE test
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the
 casing will be monitored via the valve on the TA cap as per standard batch drilling
 ops.

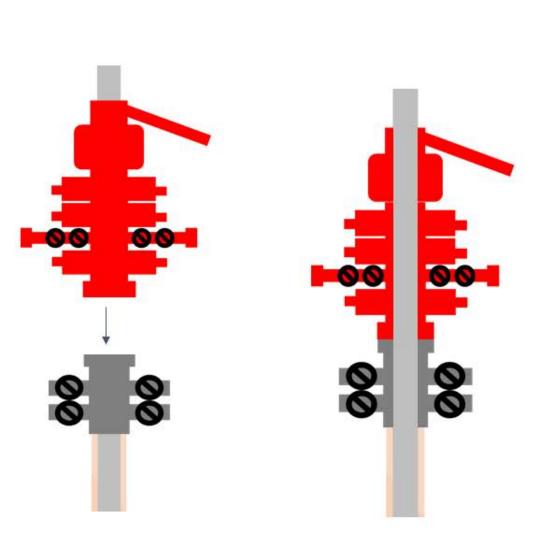
Break Test Diagram (HCR valve)

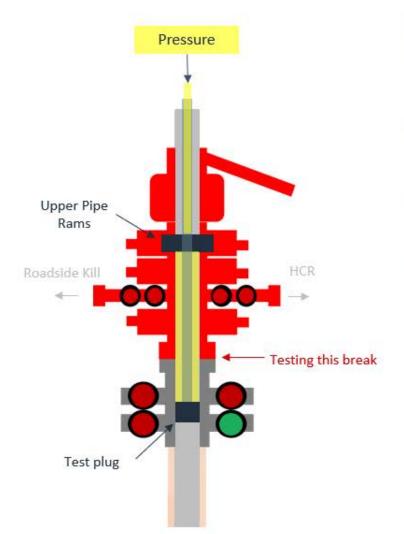


Steps

- 1. Set plug in wellhead (lower barrier)
- 2. Close Blind Rams (upper barrier)
- 3. Close roadside kill
- 4. Open HCR (pressure application)
- Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
- Tie BOP testers high pressure line to main choke manifold crown valve
- 7. Pressure up to test break
- Bleed test pressure from BOP testing unit

Break Test Diagram (Test Joint)





Steps

- Set plug in with test joint wellhead (lower barrier)
- 2. Close Upper Pipe Rams (upper barrier)
- 3. Close roadside kill
- 4. Close HCR
- Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
- 6. Tie BOP testers high pressure line to top of test joint
- 7. Pressure up to test break
- Bleed test pressure from BOP testing unit



Offline Intermediate Cementing Procedure

2/24/2022

Cement Program

1. No changes to the cement program will take place for offline cementing.

Summarized Operational Procedure for Intermediate Casing

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment back pressure valves.
 - a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
- 2. Land production casing on mandrel hanger through BOP.
 - a. If casing is unable to be landed with a mandrel hanger, then the casing will be cemented online.
- 3. Break circulation and confirm no restrictions.
 - a. Ensure no blockage of float equipment and appropriate annular returns.
 - b. Perform flow check to confirm well is static.
- 4. Set pack-off
 - a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
 - b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
- 5. After confirmation of both annular barriers and the two casing barriers, install TA plug and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.
 - a. Minimum 4 hrs notice.
- 6. With the well secured and BLM notified, nipple down BOP and secure on hydraulic carrier or cradle.
 - a. Note, if any of the barriers fail to test, the BOP stack will not be nippled down until after the cement job has concluded and both lead and tail slurry have reached 500 psi.
- 7. Skid/Walk rig off current well.
- 8. Confirm well is static before removing TA Plug.
 - a. Cementing operations will not proceed until well is under control. (If well is not static, notify BLM and proceed to kill)
 - b. Casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing.
 - c. Well control plan can be seen in Section B, Well Control Procedures.
 - d. If need be, rig can be moved back over well and BOP nippled back up for any further remediation.



Offline Intermediate Cementing Procedure

2/24/2022

- e. Diagram for rig positioning relative to offline cementing can be seen in Figure 4.
- 9. Rig up return lines to take returns from wellhead to pits and rig choke.
 - a. Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
 - b. If either test fails, perform corrections and retest before proceeding.
 - c. Return line schematics can be seen in Figure 3.
- 10. Remove TA Plug from the casing.
- 11. Install offline cement tool.
 - a. Current offline cement tool schematics can be seen in Figure 1 (Cameron) and Figure 2 (Cactus).
- 12. Rig up cement head and cementing lines.
 - a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
- 13. Break circulation on well to confirm no restrictions.
 - a. If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
 - b. Max anticipated time before circulating with cement truck is 6 hrs.
- 14. Pump cement job as per plan.
 - a. At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
 - b. If plug does not bump on calculated, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
- 15. Confirm well is static and floats are holding after cement job.
 - a. With floats holding and backside static:
 - i. Remove cement head.
 - b. If floats are leaking:
 - i. Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
 - c. If there is flow on the backside:
 - i. Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
- 16. Remove offline cement tool.
- 17. Install night cap with pressure gauge for monitoring.
- 18. Test night cap to 5,000 psi for 10 min.



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Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the <u>5M MASP (Maximum Allowable Surface Pressure) portion of the well</u>, outlines the well control component rating in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nippled up to the wellhead.

Intermediate hole section, 5M requirement

| Component | RWP |
|--------------------------|-----|
| Pack-off | 10M |
| Casing Wellhead Valves | 10M |
| Annular Wellhead Valves | 5M |
| TA Plug | 10M |
| Float Valves | 5M |
| 2" 1502 Lo-Torque Valves | 15M |

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating and cementing through the Offline Cement Adapter.

General Procedure While Circulating

- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.

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- 6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

General Procedure While Cementing

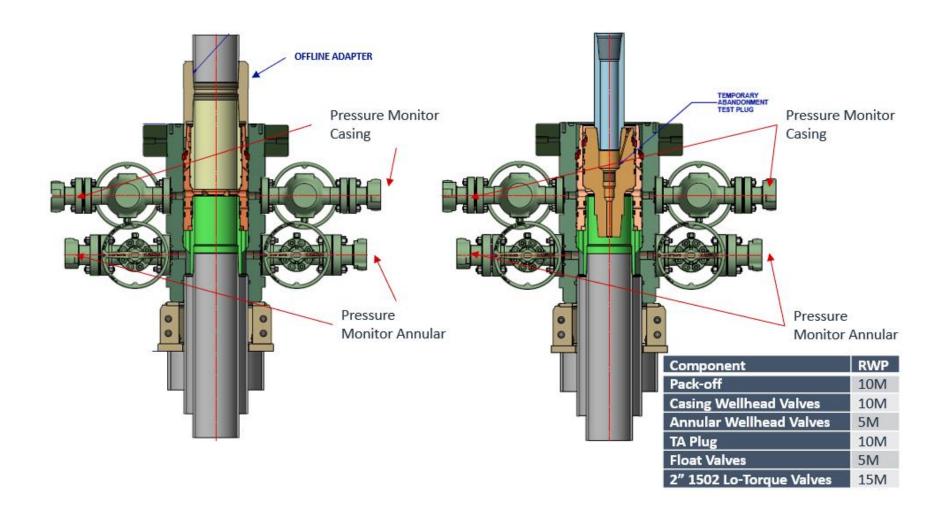
- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.
- 6. Open rig choke and begin pumping again taking returns through choke manifold and mud/gas separator.
- 7. Continue to place cement until plug bumps.
- 8. At plug bump close rig choke and cement head.
- 9. Read and record the following
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

General Procedure After Cementing

- 1. Sound alarm (alert crew).
- 2. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 3. Confirm shut-in.
- 4. Notify tool pusher/company representative.
- 5. Read and record the following:
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

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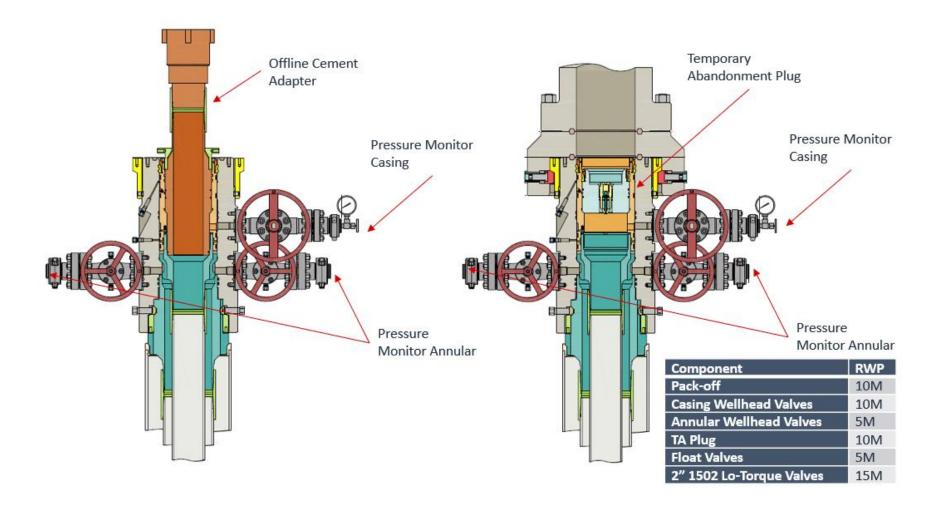
Figure 1: Cameron TA Plug and Offline Adapter Schematic





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Figure 2: Cactus TA Plug and Offline Adapter Schematic

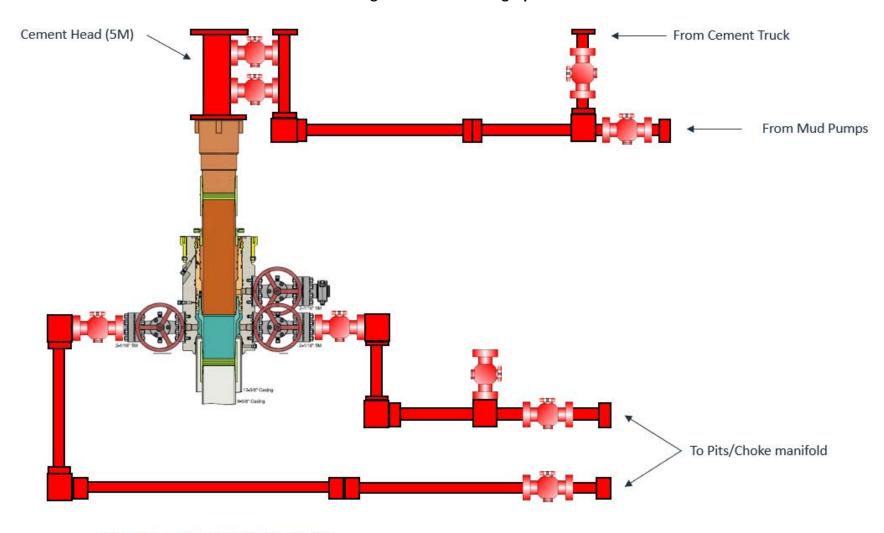


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Figure 3: Back Yard Rig Up



*** All Lines 10M rated working pressure

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Figure 4: Rig Placement Diagram



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Salt Section Annular Clearance Variance Request

Daniel Moose

Current Design (Salt Strings)

0.422" Annular clearance requirement

- Casing collars shall have a minimum clearance of 0.422 inches on all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.
- 12.25" Hole x 9.625"40# J55/HCK55 LTC Casing
 - 1.3125" Clearance to casing OD
 - 0.8125" Clearance to coupling OD
- 9.875" Hole x 8.75" 38.5# P110 Sprint-SF Casing
 - 0.5625" Clearance to casing OD
 - 0.433" Clearance to coupling OD

Annular Clearance Variance Request

EOG request permission to allow deviation from the 0.422" annulus clearance requirement for the intermediate (salt) section from Onshore Order #2 under the following conditions:

- The variance is not applicable within the Potash Boundaries or Capitan Reef areas.
- Operator takes responsibility to get casing to set point in the event that the clearance causes stuck pipe issues

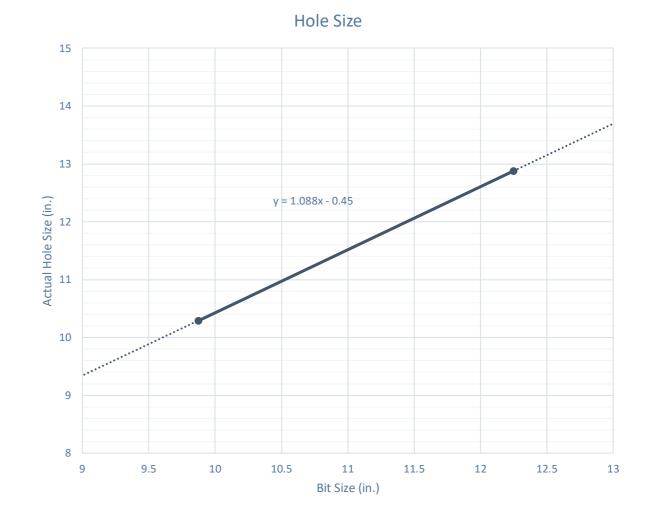
Volumetric Hole Size Calculation

Hole Size Calculations Off Cement Volumes

- Known volume of cement pumped
- Known volume of cement returned to surface
- Must not have had any losses
- Must have bumped plug

Average Hole Size

- 12.25" Hole
 - 12.88" Hole
 - 5.13% diameter increase
 - 10.52% area increase
 - 0.63" Average enlargement
 - 0.58" Median enlargement
 - 179 Well Count
- 9.875" Hole
 - 10.30" Hole
 - 4.24% diameter increase
 - 9.64% area increase
 - 0.42" Average enlargement
 - 0.46" Median enlargement
 - 11 Well Count

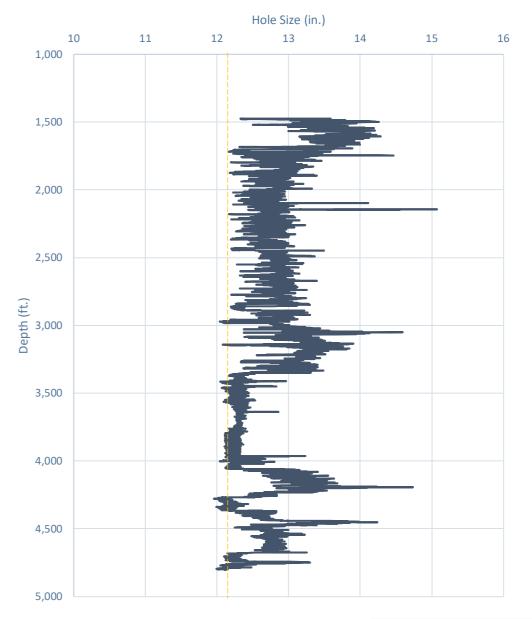


Modelo 10 Fed Com #501H

Caliper Hole Size (12.25")

Average Hole Size

- 12.25" Bit
 - 12.76" Hole
 - 4.14% diameter increase
 - 8.44% area increase
 - 0.51" Average enlargement
 - 0.52" Median enlargement
 - Brine

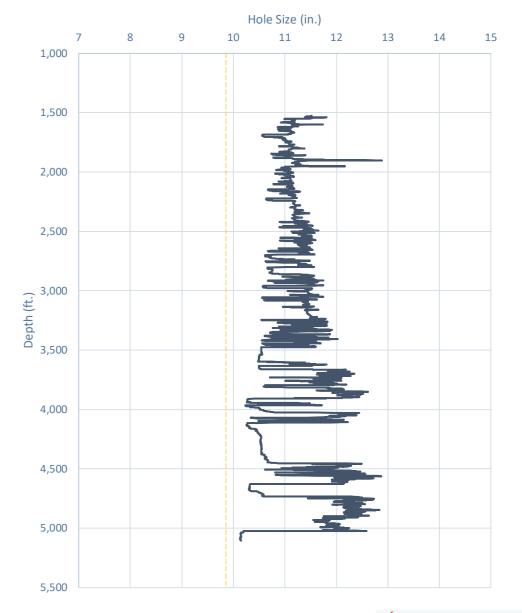


Caliper Hole Size (9.875")

Average Hole Size

- 9.875" Hole
 - 11.21" Hole
 - 13.54% diameter increase
 - 28.92% area increase
 - 1.33" Average enlargement
 - 1.30" Median enlargement
 - EnerLite

Whirling Wind 11 Fed Com #744H



Design A

Proposed 11" Hole with 9.625" 40# J55/HCK55 LTC Casing

- 11" Bit + 0.52" Average hole enlargement = 11.52" Hole Size
 - 0.9475" Clearance to casing OD

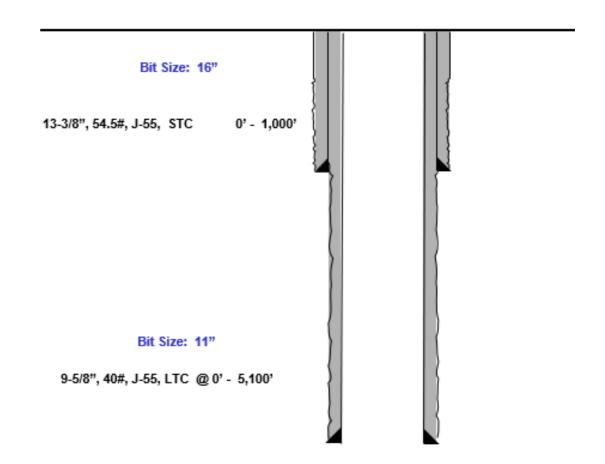
$$=\frac{11.52-9.625}{2}$$

• 0.4475" Clearance to coupling OD

$$=\frac{11.52-10.625}{2}$$

- Previous Shoe 13.375" 54.5# J55 STC
 - 0.995" Clearance to coupling OD (~1,200' overlap)

$$=\frac{12.615-10.625}{2}$$



Design B

Proposed 9.875" Hole with 8.625" 32# J55/P110 BTC-SC Casing

- 9.875" Bit + 0.42" Average hole enlargement = 10.295" Hole Size
 - 0.835" Clearance to casing OD

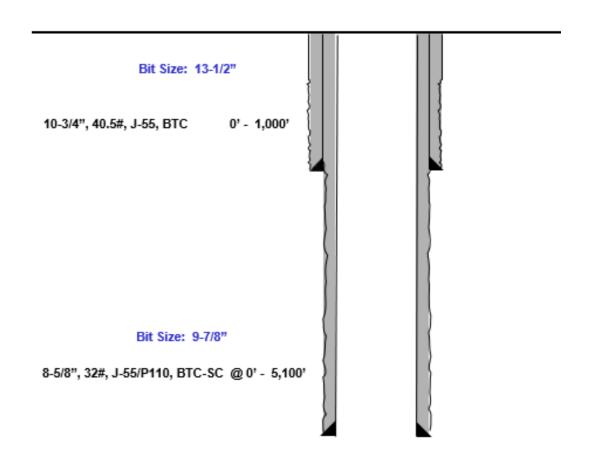
$$=\frac{10.295-8.625}{2}$$

• 0.585" Clearance to coupling OD

$$=\frac{10.295-9.125}{2}$$

- Previous Shoe 10.75" 40.5# J55 STC
 - 0.4625" Clearance to coupling OD (~1,200' overlap)

$$=\frac{10.05-9.125}{2}$$



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Casing Spec Sheets

PERFORMANCE DATA

API LTC 9.625 in 40.00 lbs/ft K55 HC Technical Data Sheet

| Tubular Parameters | | | | | |
|---------------------------|--------|--------|------------------------------|-------|------|
| Size | 9.625 | in | Minimum Yield | 55 | ksi |
| Nominal Weight | 40.00 | lbs/ft | Minimum Tensile | 95 | ksi |
| Grade | K55 HC | | Yield Load | 629 | kips |
| PE Weight | 38.94 | lbs/ft | Tensile Load | 1088 | kips |
| Wall Thickness | 0.395 | in | Min. Internal Yield Pressure | 3,950 | psi |
| Nominal ID | 8.835 | in | Collapse Pressure | 3600 | psi |
| Drift Diameter | 8.750 | in | | 1 | 1 |

| Connection Parameters | | | | | | |
|------------------------------|--------|-------|--|--|--|--|
| Connection OD | 10.625 | in | | | | |
| Coupling Length | 10.500 | in | | | | |
| Threads Per Inch | 8 | tpi | | | | |
| Standoff Thread Turns | 3.50 | turns | | | | |
| Make-Up Loss | 4.750 | in | | | | |
| Min. Internal Yield Pressure | 3,950 | psi | | | | |

11.454

Pipe Body and API Connections Performance Data

13.375 54.50/0.380 J55 PDF

New Search i)

| USC | Metric |
|-----|--------|

« Back to Previous List

| Mechanical Properties Pige BTC LTC STC Minimum Yield Strength 55,000 ppi Maximum Yield Strength 80,000 ppi Minimum Tensile Strength 75,000 ppi Dimensions Pige BTC LTC STC Cubide Diameter 13,375 14,375 14,375 in. Vall Thickness 0,380 in. Inside Diameter 12,615 12,615 12,615 in. Standard Drift 12,459 12,459 12,459 in. Attende Drift in. Nominal Linear Weight, T&C 54,50 ib.ort Palia End Weight 52,79 ib.ort Minimum Collapse Pressure 1,130 1,130 2,740 2,740 pi | 5/8/2015 10:04:37 AM | | | | | |
|--|----------------------------------|--------|--------|-----|--------|----------|
| Maximum Yrield Strength 80,000 - - - ppi Minimum Tensile Strength 75,000 - - - ppi Dimensions Pipe BTC LTC STC Outside Diameter 13,375 14,375 - 14,375 in. Wall Thickness 0,380 - - - - in. Inside Diameter 12,615 12,615 - 12,615 in. Standard Drift 12,459 12,459 - 12,459 in. Attenuale Drift - - - - - in. Nominal Linear Weight, T&C 54,50 - - - - Ibort Plain End Weight 52,79 - - - - Ibort Minimum Collapse Pressure 1,130 1,130 - 1,130 pai Minimum Internal Yield Pressure 2,740 2,740 - 2,740 pai Minimum Pipe Body Yield Str | Mechanical Properties | Ptpe | втс | LTC | STC | |
| Minimum Tensile Strength 75,000 ppsi Dimensions Pipe BTC LTC STC Outside Diameter 13,375 14,375 14,375 in. Wall Thickness 0,380 in. Inside Diameter 12,615 12,615 12,615 in. Standard Drift 12,459 12,459 12,459 in. Alternate Drift in. Nominal Linear Weight, T&C 54,50 lbs/ft Plain End Weight * \$2,79 lbs/ft Priormance Pipe BTC LTC STC Minimum Collapse Pressure 1,130 1,130 1,130 psi Minimum Pipe Body Yield Strength 853,00 1000 lbs Joint Strength 909 514 | Minimum Yield Strength | 55,000 | - | - | - | psi |
| Dimensions Pipe BTC LTC STC Outside Diameter 13.375 14.375 - 14.375 in. Wall Thickness 0.380 - - - - in. Inside Diameter 12.615 12.615 - 12.615 in. Standard Drift 12.459 12.459 - 12.459 in. Alternate Drift - - - - - in. Nominal Linear Weight, T&C 54.50 - - - - ibs/ft Plain End Weight 52.79 - - - ibs/ft Performance Pipe BTC LTC STC Minimum Collapse Pressure 1,130 1,130 - 1,130 psi Minimum Internal Yield Pressure 2,740 2,740 - 2,740 psi Minimum Pipe Body Yield Strength 853.00 - - - - 1000 lbs Joint Strength - | Maximum Yield Strength | 80,000 | - | - | - | psi |
| Outside Diameter 13.375 14.375 - 14.375 in. Wall Thickness 0.380 - - - in. Inside Diameter 12.615 12.615 - 12.615 in. Standard Drift 12.459 12.459 - 12.459 in. Alternate Drift - - - - - in. Nominal Linear Weight, T&C 54.50 - - - - ibs/ft Plain End Weight 52.79 - - - ibs/ft Performance Pipe BTC LTC STC Minimum Collapse Pressure 1,130 1,130 - 1,130 psi Minimum Pipe Body Vield Strength 853.00 - - - - 1000 lbs Joint Strength - 999 - 514 1000 lbs Reference Length - 11,125 - 6,290 ft | Minimum Tensile Strength | 75,000 | - | - | - | psi |
| Wall Thickness 0.380 - - - - in. Inside Diameter 12.615 12.615 - 12.615 in. Standard Drift 12.459 12.459 - 12.459 in. Alternate Drift - - - - - in. Nominal Linear Weight, T&C 54.50 - - - - Ibe/ft Plain End Weight * 52.79 - - - - Ibe/ft Performance Pipe BTC LTC STC STC Minimum Collapse Pressure 1,130 1,130 - 1,130 psi Minimum Pipe Body Yield Strength 853.00 - - - - 1000 lbs Joint Strength - 909 - 514 1000 lbs Reference Length - 11,125 - 6,290 ft | Dimensions | Ptpe | втс | LTC | STC | |
| Inside Diameter | Outside Diameter | 13.375 | 14.375 | - | 14.375 | in. |
| Standard Drift 12.459 12.459 - 12.459 in. Alternate Drift - - - - - in. Nominal Linear Weight, T&C 54.50 - - - - lbs/ft Plain End Weight * 52.79 - - - lbs/ft Performance Pipe BTC LTC STC Minimum Collapse Pressure 1,130 1,130 - 1,130 psi Minimum Internal Yield Pressure 2,740 2,740 - 2,740 psi Minimum Pipe Body Yield Strength 853.00 - - - 1000 lbs Joint Strength - 909 - 514 1000 lbs Reference Length - 11,125 - 6,290 ft | Wall Thickness | 0.380 | - | - | - | in. |
| Alternate Drift - - - - - in. Nominal Linear Weight, T&C 54.50 - - - - lbs/ft Plain End Weight 52.79 - - - lbs/ft Performance Ptpe BTC LTC STC Minimum Collapse Pressure 1,130 1,130 - 1,130 psi Minimum Internal Yield Pressure 2,740 2,740 - 2,740 psi Minimum Pipe Body Yield Strength 853.00 - - - 1000 lbs Joint Strength - 909 - 514 1000 lbs Reference Length - 11,125 - 6,290 ft | Inside Diameter | 12.615 | 12.615 | - | 12.615 | in. |
| Nominal Linear Weight, T&C 54.50 - - - - Ibs/ft Plain End Weight 52.79 - - - - Ibs/ft Performance Pipe BTC LTC STC Minimum Collapse Pressure 1,130 1,130 - 1,130 psi Minimum Internal Yield Pressure 2,740 2,740 - 2,740 psi Minimum Pipe Body Yield Strength 853.00 - - - 1000 lbs Joint Strength - 909 - 514 1000 lbs Reference Length - 11,125 - 6,290 ft | Standard Drift | 12.459 | 12.459 | - | 12.459 | in. |
| Plain End Weight \$52.79 - - - Ibsr/ft Performance Ptpe BTC LTC STC Minimum Collapse Pressure 1,130 1,130 - 1,130 psi Minimum Internal Yield Pressure 2,740 2,740 - 2,740 psi Minimum Pipe Body Yield Strength 853.00 - - - 1000 lbs Joint Strength - 909 - 514 1000 lbs Reference Length - 11,125 - 6,290 ft | Alternate Drift | - | - | - | - | in. |
| Plain End Weight 52.79 - - - lbs/ft Performance Ptpe BTC LTC STC Minimum Collapse Pressure 1,130 1,130 - 1,130 psi Minimum Internal Yield Pressure 2,740 2,740 - 2,740 psi Minimum Pipe Body Yield Strength 853.00 - - - 1000 lbs Joint Strength - 909 - 514 1000 lbs Reference Length - 11,125 - 6,290 ft | Nominal Linear Weight, T&C | 54.50 | - | - | - | lbs/ft |
| Minimum Collapse Pressure 1,130 1,130 - 1,130 psi Minimum Internal Yield Pressure 2,740 2,740 - 2,740 psi Minimum Pipe Body Yield Strength 853.00 - - - 1000 lbs Joint Strength - 909 - 514 1000 lbs Reference Length - 11,125 - 6,290 ft | Plain End Weight | 52.79 | - | - | - | lbs/ft |
| Minimum Internal Yield Pressure 2,740 2,740 - 2,740 psi Minimum Pipe Body Yield Strength 853.00 - - - 1000 lbs Joint Strength - 909 - 514 1000 lbs Reference Length - 11,125 - 6,290 ft | Performance | Pipe | втс | LTC | STC | |
| Minimum Pipe Body Yield Strength 853.00 - - - 1000 lbs Joint Strength - 909 - 514 1000 lbs Reference Length - 11,125 - 6,290 ft | Minimum Collapse Pressure | 1,130 | 1,130 | - | 1,130 | psi |
| Joint Strength - 909 - 514 1000 lbs Reference Length - 11,125 - 6,290 ft | Minimum Internal Yield Pressure | 2,740 | 2,740 | - | 2,740 | psi |
| Reference Length 11,125 6,290 ft | Minimum Pipe Body Yield Strength | 853.00 | - | - | - | 1000 lbs |
| | Joint Strength | - | 909 | | 514 | 1000 lbs |
| Make-Up Data Pipe BTC LTC STC | Reference Length | - | 11,125 | - | 6,290 | ft |
| | Make-Up Data | Ptpe | втс | LTC | STC | |
| Make-Up Loss - 4.81 - 3.50 in. | Make-Up Loss | - | 4.81 | - | 3.50 | in. |
| Minimum Make-Up Torque 3,860 ff-lbs | | _ | _ | - | 3,860 | ft-lbs |
| Maximum Make-Up Torque 6,430 ft-lbs | Minimum Make-Up Torque | | | | | |

Nom. Pipe Body Area

Received by OCD: 1/24/2024 12:45:21 PM

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5,250

ft-lbs

Casing Spec Sheets

Pipe Body and API Connections Performance Data

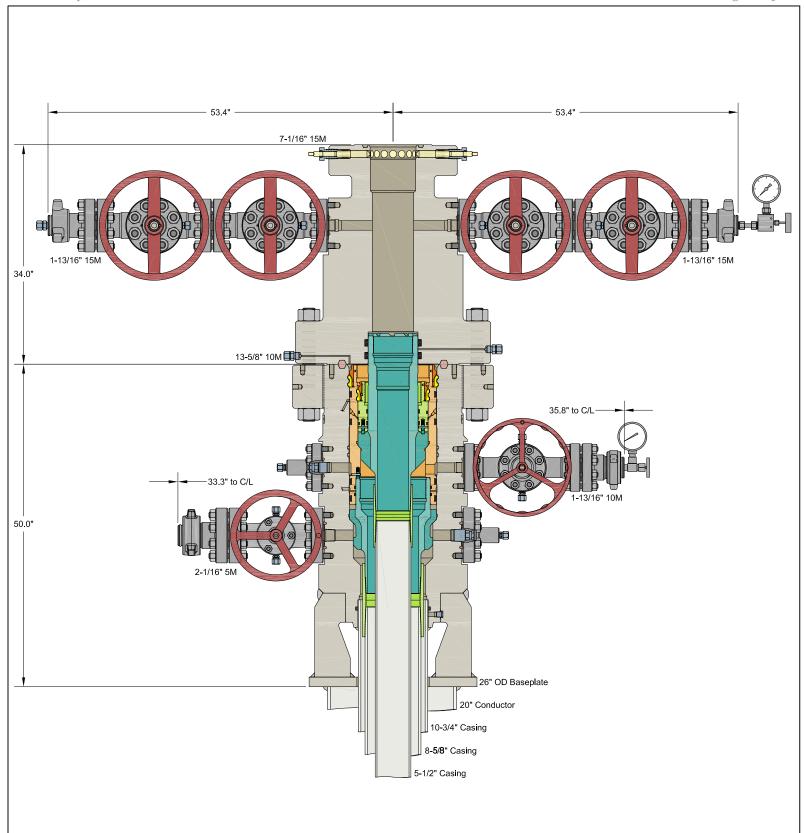
10.750 40.50/0.350 J55 PDF

New Search » « Back to Previous List USC Metric 6/8/2015 10:14:05 AM BTC STC Ptpe **Mechanical Properties** Minimum Yield Strength 55,000 psi Maximum Yield Strength 80,000 Minimum Tensile Strength 75,000 psi BTC LTC STC Pipe 11.750 Outside Diameter 10.750 11.750 in. Wall Thickness 0.350 Inside Diameter 10.050 10.050 10.050 Standard Drift 9.894 9.894 in. Alternate Drift in. Nominal Linear Weight, T&C 40.50 lbs/ft Plain End Weight 38.91 lbs/ft Performance Ptpe BTC STC Minimum Collapse Pressure psi 3,130 Minimum Internal Yield Pressure 3,130 3,130 Minimum Pipe Body Yield Strength 629.00 1000 lbs 700 420 Joint Strength 1000 lbs Reference Length 11,522 6,915 Make-Up Data BTC STC Ptpe 4.81 3.50 Make-Up Loss in. Minimum Make-Up Torque 3,150 ft-lbs

| | | | | | | | | V • | val | loui | rec |
|---|--|------------------------|----------------|---------------------------|--|---------------------|---------------------|------------------|---|------------|-----------------|
| | | | | | | AP | PI 5CT, | 10th Ed. | Connect | ion Dat | a Sheet |
| LB | O.D. (in) | | , | WALL (i | in) | GR | ADE | *API DR | IFT (in) | RBV | V % |
| Ħ | 8.625 | Nominal: Plain End: | 32.00 31.13 | 0.352 | | J | 55 | 7.7 | 96 | 87 | .5 |
| MADE IN USA | | Material Propert | ies (PE) | | | | | Pipe Bod | y Data (I | PE) | |
| DE IN | | Pipe | , , | | | | | Geo | metry | | |
| | Minimum | Yield Strength: | 55 | ksi | | Nomir | nal ID: | | | 7.92 | inch |
| #0d | Maximum | Yield Strength: | 80 | ksi | | Nomir | nal Area | a: | | 9.149 | in ² |
| ** | Minimum | Tensile Strength: | 75 | ksi | | *Spec | cial/Alt. I | Drift: | | 7.875 | inch |
| SLN | | Coupling | 1 | | | | | Perfo | rmance | | |
| #0/M | Minimum 1 | Yield Strength: | 55 | ksi | | Pipe I | Body Yi | eld Streng | gth: | 503 | kips |
| | Maximum | Yield Strength: | 80 | ksi | | Collapse Resistance | | | | 2,530 psi | |
| DA 7.875 | Minimum 1 | Tensile Strength: | 75 | ksi | Internal Yield Press (API Historical) | | | essure: 3,930 ps | | psi | |
| DA | | | | | | | | | | | |
| S2L2 | API Connection Data Coupling OD: 9.625" | | | | | | Al | PI Conne | ction To | rque | |
| S S | STC Performance | | | | | | STC Tor | que (ft-ll | os) | | |
| 4 155 | STC Inter | nal Pressure: | 3,930 | psi | | Min: | 2,793 | Opti: | 3,724 | Max: | 4,655 |
| 32# | STC Joint | Strength: | 372 | kips | | | | | | | |
| 8.625 | LTC Performance | | | | | | LTC Tor | que (ft-ll | os) | | |
| AR | LTC Intern | nal Pressure: | 3,930 | psi | | Min: | 3,130 | Opti: | 4,174 | Max: | 5,217 |
| C ST | LTC Joint | • | | kips | | | | | | | |
| VALLOUREC STAR | SC-BTC | Performance - C | pig OD = | 9.125" | | | | BTC Tor | que (ft-ll | os) | |
| LLOI | BTC Inter | nal Pressure: | 3,930 | psi | follow API guidelines regardii | | | garding po | · · | | |
| X | BTC Joint | Strength: | 503 | kips | | | | | | | |
| | *Alt. Drift will be used unless API Drift is specified on order. | | | | | | | | | | |
| | ** | If above API connec | tions do not | suit your ne 100% of p | eed pipe | s, VAMo body r | ® premiu atings. | m connection | ons are av | ailable up | to |
| ALL INFORMATION IS PROVINCED BY VALLOUREC OR ITS AFFILIATES AT USER'S SOLE RISK, WITHOUT LIABILITY FOR LOSS, DAMAGE OR INJURY RESULTING FROM THE AND ON AN 'AS IS' BASIS WITHOUT WARRANTY OR REPRESENTATION OF ANY KIND, WHETHER PLARESS OR INJURY LICEURIONS WITHOUT UNINTATION ANY WAM MERCHANTABILITY, FITNESS FOR PURPOSE, ACCURACY OR COMMETENESS. THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROVIDED FOR INFORMATION ONLY AND IS BASED ON ESTIMATES THAT HAVE NOT BEEN VERIFIED OR TESTED. IN NO EVENT SHALL VALIDUREC OR ITS AFFILIATES BE RESPONSIBLE FOR ANY HOLD INFORMATION AND AND AND AND AND AND AND AND AND AN | | | | | | | | | ARRANTY OF AL PURPOSES RECT, SPECIAL, | | |

INCIDENTAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL LOSS OR DAMAGE (INCLUDING WITHOUT LIMITATION, LOSS OF USE, LOSS OF BARGAIN, LOSS OF REVENUE, PROFIT OR ANTICIPATED PROFIT) HOWEVER CAUSED OR ARISING, AND WHETHER SUCH LOSSES OR DAMAGES WERE FORESEABLE OR VALLOUREC OR ITS AFFILIATES WERE ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Maximum Make-Up Torque



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And 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head

ALL DIMENSIONS APPROXIMATE

SDT-3141

DRAWING NO.

CACTUS WELLHEAD LLC 10-3/4" x 8-5/8" x 5-1/2" MBU-3T-SF-SOW Wellhead System With 8-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers EOG RESOURCES DRAWN DLE 14APR21 APPRV

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**

CONDITIONS

Action 307344

CONDITIONS

| Operator: | OGRID: |
|----------------------|--------------------------------------|
| EOG RESOURCES INC | 7377 |
| 5509 Champions Drive | Action Number: |
| Midland, TX 79706 | 307344 |
| | Action Type: |
| | [C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By | | Condition Date |
|---------------|--------|-------------------|
| pkaut | z None | 3/12/2024 |