AFMSS

U.S. Department of the Interior
Bureau of Land Management

Application for Permit to Drill

APD Package Report

Date Printed: 11/18/2025 02:04 PM

APD ID:	10400107023	Well Status:	AAPD
APD Received Date:	09/12/2025 08:18 AM	Well Name:	PEACHTREE 24 FED COM
Operator:	EOG RESOURCES INCORPORATED	Well Number:	572H

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report
- Application Attachments
  -- Well Plat: 1 file(s)

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 1 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 4 file(s)
  -- Casing Design Assumptions and Worksheet(s): 6 file(s)
  -- Hydrogen sulfide drilling operations plan: 1 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
  -- Other Facets: 7 file(s)
  -- Other Variances: 4 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 1 file(s)
  -- New Road Map: 2 file(s)
  -- Attach Well map: 1 file(s)
  -- Production Facilities map: 16 file(s)
  -- Water source and transportation map: 1 file(s)
  -- Construction Materials source location attachment: 1 file(s)
  -- Well Site Layout Diagram: 3 file(s)
  -- Recontouring attachment: 1 file(s)
  -- Other SUPO Attachment: 3 file(s)

- PWD Report
- PWD Attachments
  -- None

- Bond Report
- Bond Attachments
  -- None

Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM02965A

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☑ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.
PEACHTREE 24 FED COM
572H

2. Name of Operator
EOG RESOURCES INCORPORATED

9. API Well No.
30-025-55498

3a. Address
1111 BAGBY SKY LOBBY 2, HOUSTON, TX 77002

3b. Phone No. *(include area code)*
(713) 651-7000

10. Field and Pool, or Exploratory
BRADLEY/BONESPRING

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface TR M / 192 FSL / 624 FWL / LAT 32.0222129 / LONG -103.5325812
At proposed prod. zone TR D / 100 FNL / 660 FWL / LAT 32.0504329 / LONG -103.5324625

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 24/T26S/R33E/NMP

14. Distance in miles and direction from nearest town or post office*

12. County or Parish
LEA

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
100 feet

16. No of acres in lease

17. Spacing Unit dedicated to this well
640.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
33 feet

19. Proposed Depth
11550 feet / 21755 feet

20. BLM/BIA Bond No. in file
FED: NMB106709157

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3343 feet

22. Approximate date work will start*
11/06/2025

23. Estimated duration
25 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature
(Electronic Submission)

Name *(Printed/Typed)*
SHEA BAILEY / Ph: (713) 651-7000

Date
09/12/2025

Title
Regulatory Contractor

Approved by *(Signature)*
(Electronic Submission)

Name *(Printed/Typed)*
CODY LAYTON / Ph: (575) 234-5959

Date
11/18/2025

Title
Assistant Field Manager Lands & Minerals

Office
Carlsbad Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 11/18/2025

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160
PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.
ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.
EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

Additional Operator Remarks

Location of Well

0. SHL: TR M / 192 FSL / 624 FWL / TWSP: 26S / RANGE: 33E / SECTION: 24 / LAT: 32.0222129 / LONG: -103.5325812 (TVD: 0 feet, MD: 0 feet)

PPP: TR M / 100 FSL / 660 FWL / TWSP: 26S / RANGE: 33E / SECTION: 24 / LAT: 32.0219597 / LONG: -103.5324667 (TVD: 11285 feet, MD: 11295 feet)

BHL: TR D / 100 FNL / 660 FWL / TWSP: 26S / RANGE: 33E / SECTION: 13 / LAT: 32.0504329 / LONG: -103.5324625 (TVD: 11550 feet, MD: 21755 feet)

BLM Point of Contact

Name: MARIAH HUGHES
Title: Land Law Examiner
Phone: (575) 234-5972
Email: MHUGHES@BLM.GOV

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG Resources
LEASE NO.:	NMNM0002965A, NMNM122622
COUNTY:	Lea County, New Mexico

Wells:

Well Pad I

Peachtree 24 Fed Com 591H
Surface Hole Location: 338 feet FSL and 1547 feet FWL, Section 24, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 330 feet FWL, Section 13, T. 26 S., R. 33 E.

Peachtree 24 Fed Com 592H
Surface Hole Location: 338 feet FSL and 1580 feet FWL, Section 24, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 660 feet FWL, Section 13, T. 26 S., R. 33 E.

Peachtree 24 Fed Com 593H
Surface Hole Location: 338 feet FSL and 1613 feet FWL, Section 24, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 990 feet FWL, Section 13, T. 26 S., R. 33 E.

Peachtree 24 Fed Com 594H
Surface Hole Location: 338 feet FSL and 1646 feet FWL, Section 24, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 1320 feet FWL, Section 13, T. 26 S., R. 33 E.

Well Pad A

Peachtree 24 Fed Com 571H
Surface Hole Location: 192 feet FSL and 591 feet FWL, Section 24, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 330 feet FWL, Section 13, T. 26 S., R. 33 E.

Peachtree 24 Fed Com 572H
Surface Hole Location: 192 feet FSL and 624 feet FWL, Section 24, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 660 feet FWL, Section 13, T. 26 S., R. 33 E.

Peachtree 24 Fed Com 573H

 Approval Date: 11/18/2025

Surface Hole Location: 192 feet FSL and 657 feet FWL, Section 24, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 990 feet FWL, Section 13, T. 26 S., R. 33 E.

Peachtree 24 Fed Com 574H
Surface Hole Location: 192 feet FSL and 690 feet FWL, Section 24, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 1320 feet FWL, Section 13, T. 26 S., R. 33 E.

Well Pad G

Peachtree 24 Fed Com 208H
Surface Hole Location: 305 feet FNL and 1944 feet FWL, Section 25, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 1650 feet FWL, Section 13, T. 26 S., R. 33 E.

Peachtree 24 Fed Com 508H
Surface Hole Location: 320 feet FNL and 1944 feet FWL, Section 25, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 990 feet FWL, Section 13, T. 26 S., R. 33 E.

Peachtree 24 Fed Com 207H
Surface Hole Location: 335 feet FNL and 1944 feet FWL, Section 25, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 990 feet FWL, Section 13, T. 26 S., R. 33 E.

Peachtree 24 Fed Com 108H
Surface Hole Location: 350 feet FNL and 1944 feet FWL, Section 25, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 990 feet FWL, Section 13, T. 26 S., R. 33 E.

Well Pad H

Peachtree 24 Fed Com 206H
Surface Hole Location: 370 feet FNL and 603 feet FWL, Section 25, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 330 feet FWL, Section 13, T. 26 S., R. 33 E.

Peachtree 24 Fed Com 507H
Surface Hole Location: 310 feet FNL and 708 feet FWL, Section 25, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 330 feet FWL, Section 13, T. 26 S., R. 33 E.

Peachtree 24 Fed Com 107H
Surface Hole Location: 340 feet FNL and 918 feet FWL, Section 25, T. 26 S., R. 33 E.
Bottom Hole Location: 100 feet FNL and 330 feet FWL, Section 13, T. 26 S., R. 33 E.

Peachtree 24 Fed Com 581H

Surface Hole Location: 355 feet FNL and 918 feet FWL, Section 25, T. 26 S., R. 33 E.

Bottom Hole Location: 100 feet FNL and 330 feet FWL, Section 13, T. 26 S., R. 33 E.

TABLE OF CONTENTS

1. GENERAL PROVISIONS 7
1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES 7
1.2. RANGELAND RESOURCES 7
1.2.1. Cattleguards 7
1.2.2. Fence Requirement 8
1.2.3. Livestock Watering Requirement 8
1.3. NOXIOUS WEEDS 8
1.4. LIGHT POLLUTION 8
1.4.1. Downfacing 8
1.4.2. Shielding 8
1.4.3. Lighting Color 9
2. SPECIAL REQUIREMENTS 9
2.1. WATERSHED 9
2.1.1. Tank Battery ..... Error! Bookmark not defined.
2.1.2. Buried/Surface Line(s) 9
2.1.3. Electric Line(s) ..... Error! Bookmark not defined.
2.1.4. Temporary Use Fresh Water Frac Line(s) ..... Error! Bookmark not defined.
2.2. CAVE/KARST ..... Error! Bookmark not defined.
2.2.1. General Construction ..... Error! Bookmark not defined.
2.2.2. Pad Construction ..... Error! Bookmark not defined.
2.2.3. Road Construction ..... Error! Bookmark not defined.
2.2.4. Buried Pipeline/Cable Construction ..... Error! Bookmark not defined.
2.2.5. Powerline Construction ..... Error! Bookmark not defined.
2.2.6. Surface Flowlines Installation ..... Error! Bookmark not defined.
2.2.7. Production Mitigation ..... Error! Bookmark not defined.
2.2.8. Residual and Cumulative Mitigation ..... Error! Bookmark not defined.
2.2.9. Plugging and Abandonment Mitigation ..... Error! Bookmark not defined.
2.3 WILDLIFE ..... Error! Bookmark not defined.
2.3.1 Lesser Prairie Chicken ..... Error! Bookmark not defined.
2.3.2. Texas Hornshell Mussel ..... Error! Bookmark not defined.
2.3.3 Dunes Sagebrush Lizard ..... Error! Bookmark not defined.
2.4 SPECIAL STATUS PLANT SPECIES ..... Error! Bookmark not defined.
2.5 VISUAL RESOURCE MANAGEMENT 9
2.5.1 VRM IV 9

2.5.2 VRM III Facility Requirement 9
3. CONSTRUCTION REQUIRENMENTS 9
3.1 CONSTRCUTION NOTIFICATION 9
3.2 TOPSOIL 10
3.3 CLOSED LOOP SYSTEM 10
3.4 FEDERAL MINERAL PIT 10
3.5 WELL PAD & SURFACING 10
3.6 EXCLOSURE FENCING (CELLARS & PITS) 10
3.7 ON LEASE ACESS ROAD 10
3.7.1 Road Width 10
3.7.2 Surfacing 10
3.7.3 Crowning 11
3.7.4 Ditching 11
3.7.5 Turnouts 11
3.7.6 Drainage 11
3.7.7 Public Access 12
4. PIPELINES 14
4.1 TEMPORARY FRESHWATER PIPELINES ..... Error! Bookmark not defined.
4.2 BURIED PIPELINES 14
4.3 SURFACE PIPELINES 16
4.4 OVERHEAD ELECTRIC LINES ..... Error! Bookmark not defined.
4.5 RANGELAND MITIGATION FOR PIPELINES 18
4.5.1 Fence Requirement 18
4.5.2 Cattleguards 18
4.5.3 Livestock Watering Requirement 18
5. PRODUCTION (POST DRILLING) 19
5.1 WELL STRUCTURES & FACILITIES 19
5.1.1 Placement of Production Facilities 19
5.1.2 Exclosure Netting (Open-top Tanks) 19
5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening 19
5.1.4. Open-Vent Exhaust Stack Exclosures 19
5.1.5. Containment Structures 19
6. RECLAMATION 19
6.1 ROAD AND SITE RECLAMATION 20
6.2 EROSION CONTROL 20
6.3 INTERIM RECLAMATION 20
6.4 FINAL ABANDONMENT & RECLAMATION 20

6.5 SEEDING TECHNIQUES 21
6.6 SOIL SPECIFIC SEED MIXTURE 21

1. GENERAL PROVISIONS

The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100ft) of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer, in conjunction with a BLM Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing traditional, religious, and cultural significance tied to a certain group of individuals. Though there are currently no designated TCPs within the project area or within a mile of the project area, but it is possible for a TCP to be designated after the approval of this project. **If a TCP is designated in the project area after the project's approval, the BLM Authorized Officer will notify the operator of the following conditions and the duration for which these conditions are required.**

1. Temporary halting of all construction, drilling, and production activities to lower noise.
2. Temporary shut-off of all artificial lights at night.

The operator is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA), specifically NAGPRA Subpart B regarding discoveries, to protect human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered during project work. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and a BLM-CFO Authorized Officer will be notified immediately. The BLM will then be required to be notified, in writing, within 24 hours of the discovery. The written notification should include the geographic location by county and state, the contents of the discovery, and the steps taken to protect said discovery. You must also include any potential threats to the discovery and a conformation that all activity within 100ft of the discovery has ceased and work will not resume until written certification is issued. All work on the entire project must halt for a minimum of 3 days and work cannot resume until an Authorized Officer grants permission to do so.

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

1.2. RANGELAND RESOURCES

1.2.1. **Cattleguards**

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.2.2. **Fence Requirement**

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

1.2.3. **Livestock Watering Requirement**

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

1.3. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA, New Mexico Department of Agriculture, and BLM requirements and policies.

1.3.1 African Rue (Peganum harmala)

Spraying: The spraying of African Rue must be completed by a licensed or certified applicator. In order to attempt to kill or remove African Rue the proper mix of chemical is needed. The mix consists of 2% Arsenal (Imazapyr) and 2% Roundup (Glyphosate) along with a nonionic surfactant. Any other chemicals or combinations shall be approved by the BLM Noxious Weeds Coordinator prior to treatment. African Rue shall be sprayed in connection to any dirt working activities or disturbances to the site being sprayed. Spraying of African Rue shall be done on immature plants at initial growth through flowering and mature plants between budding and flowering stages. Spraying shall not be conducted after flowering when plant is fruiting. This will ensure optimal intake of chemical and decrease chances of developing herbicide resistance. After spraying, the operator or necessary parties must contact the Carlsbad Field Office to inspect the effectiveness of the application treatment to the plant species. No ground disturbing activities can take place until the inspection by the authorized officer is complete. The operator may contact the Environmental Protection Department or the BLM Noxious Weed Coordinator at (575) 234-5972 or BLM_NM_CFO_NoxiousWeeds@blm.gov.

Management Practices: In addition to spraying for African Rue, good management practices should be followed. All equipment should be washed off using a power washer in a designated containment area. The containment area shall be bermed to allow for containment of the seed to prevent it from entering any open areas of the nearby landscape. The containment area shall be excavated near or adjacent to the well pad at a depth of three feet and just large enough to get equipment inside it to be washed off. This will allow all seeds to be in a centrally located area that can be treated at a later date if the need arises.

1.4. LIGHT POLLUTION

1.4.1. **Downfacing**

All permanent lighting will be pointed straight down at the ground in order to prevent light spill beyond the edge of approved surface disturbance.

1.4.2. **Shielding**

All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source).

1.4.3. **Lighting Color**

Lighting shall be 3,500 Kelvin or less (Warm White) except during drilling, completion, and workover operations. No bluish-white lighting shall be used in permanent outdoor lighting.

2. SPECIAL REQUIREMENTS

2.1. WATERSHED

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

2.1.1. **Buried/Surface Line(s)**

When crossing ephemeral drainages, the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons must be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences must be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars must be placed within the corridor to divert and dissipate surface runoff. A pipeline access road is not permitted to cross ephemeral drainages. Traffic must be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

2.3 VISUAL RESOURCE MANAGEMENT

2.5.1 **VRM IV**

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

2.5.2 **VRM III Facility Requirement**

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

3. CONSTRUCTION REQUIRENMENTS

3.1 CONSTRCUTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and COAs on the well site and they shall be made available upon request by the Authorized Officer.

3.2 TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (the B horizon and below) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

3.3 CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No reserve pits will be used for drill cuttings. The operator shall properly dispose of drilling contents at an authorized disposal site.

3.4 FEDERAL MINERAL PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

3.5 WELL PAD & SURFACING

Any surfacing material used to surface the well pad will be removed at the time of interim and final reclamation.

3.6 EXCLOSURE FENCING (CELLARS & PITS)

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the well cellar is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

The operator will also install and maintain mesh netting for all open well cellars to prevent access to smaller wildlife before and after drilling operations until the well cellar is free of fluids and the operator. Use a maximum netting mesh size of 1 ½ inches. The netting must not have holes or gaps.

3.7 ON LEASE ACESS ROAD

3.7.1 **Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed twenty-four (24) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

3.7.2 **Surfacing**

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements will be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

3.7.3 Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

3.7.4 Ditching

Ditching shall be required on both sides of the road.

3.7.5 Turnouts

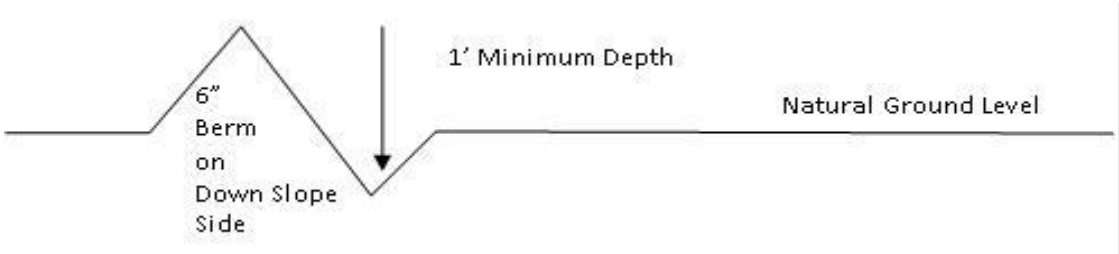
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, leadoff ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

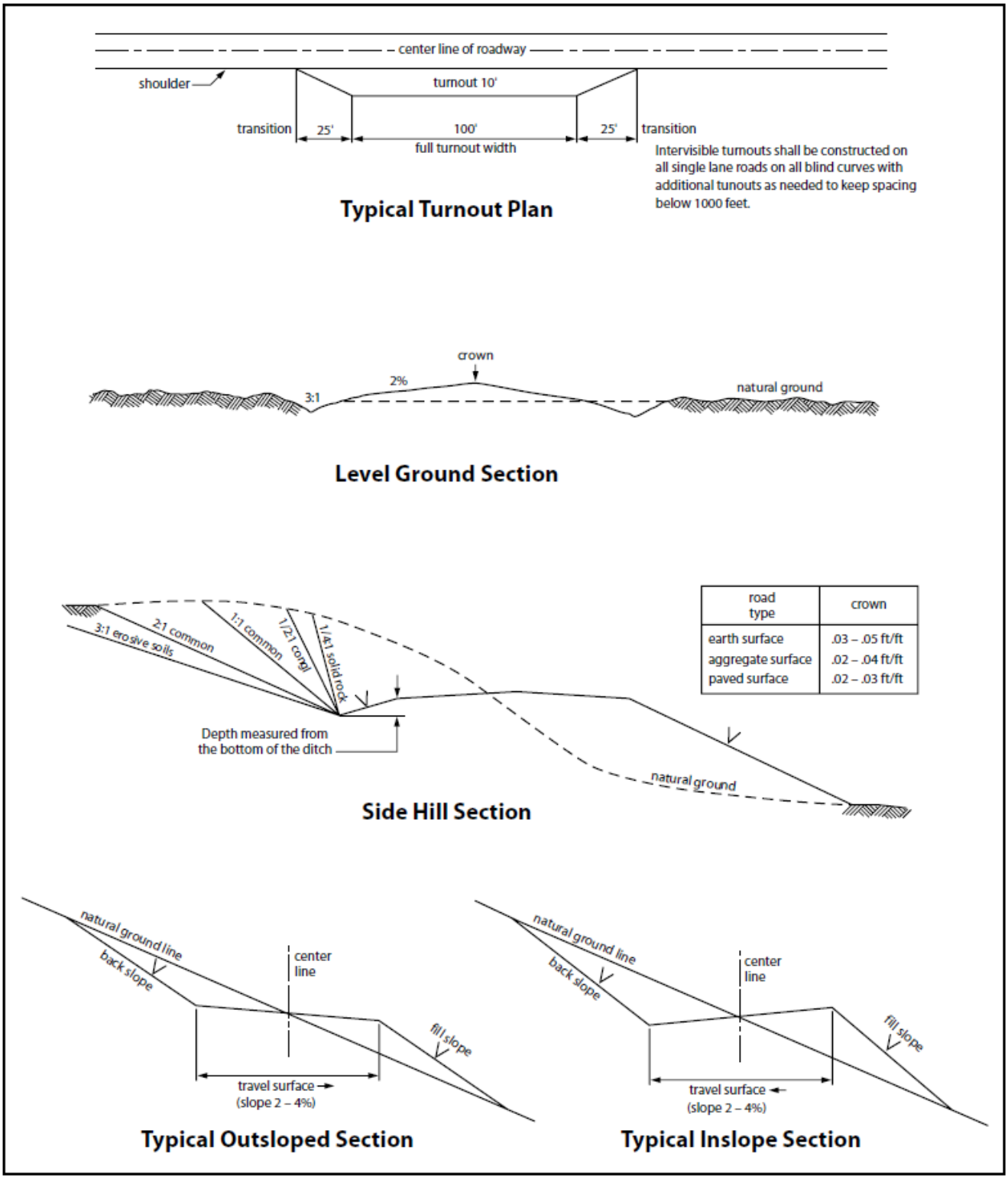
$$\text{400 foot road with 4\% road slope: } \frac{400'}{4} + 100' = 200' \text{ lead-off ditch interval}$$

3.7.7 Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes



road type	crown
earth surface	.03 – .05 ft/ft
aggregate surface	.02 – .04 ft/ft
paved surface	.02 – .03 ft/ft

Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

4. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

4.1 BURIED PIPELINES

A copy of the application (APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.

2. The Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the pipeline corridor or on facilities authorized under this APD. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of operator, regardless of fault. Upon failure of operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and

fish and wildlife habitats, at the full expense of the operator. Such action by the Authorized Officer shall not relieve operator of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized pipeline corridor.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this pipeline corridor will be 30 feet:

   - Blading of vegetation within the pipeline corridor will be allowed: maximum width of blading operations will not exceed **20** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)

   - Clearing of brush species within the pipeline corridor will be allowed: maximum width of clearing operations will not exceed **30** feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)

   - The remaining area of the pipeline corridor (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The operator shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6___ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this pipeline corridor and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire pipeline corridor shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted, and a 6-inch berm will be left over the ditch line to allow for settling back to grade.

10. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

11. The operator shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the operator before maintenance begins. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the operator to construct temporary deterrence structures.

12. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

13. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

 Approval Date: 11/18/2025

a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.
b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30-degree slope and spaced no more than 500 feet apart) shall be placed in the trench. Before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.

4.2 SURFACE PIPELINES

A copy of the APD and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.

2. Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 et seq. (1982) with regard to any toxic substances that are used, generated by or stored on the pipeline corridoror on facilities authorized under this APD (see 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. Operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to activity of the Operator's activity on the Pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This provision applies without regard to whether a release is caused by Operator, its agent, or unrelated third parties.

4. Operator shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Operator shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the pipeline corridor or permit area:

   a. Activities of Operator including, but not limited to: construction, operation, maintenance, and termination of the facility;

   b. Activities of other parties including, but not limited to:
      (1) Land clearing
      (2) Earth-disturbing and earth-moving work
      (3) Blasting
      (4) Vandalism and sabotage

   c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars ($1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Operator, regardless of fault. Upon failure of Operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as they deem necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Operator. Such action by the Authorized Officer shall not relieve Operator of any responsibility as provided herein.

6. All construction and maintenance activity shall be confined to the authorized pipeline corridor width of 30-feet. If the pipeline route follows an existing road or buried pipeline corridor, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline corridor. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or pipeline corridors.

7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.

8. Operator shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 6 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the operator will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the operator to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – Shale Green, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The operator shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the operator. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

16. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

4.3 RANGELAND MITIGATION FOR PIPELINES

4.5.1 **Fence Requirement**

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment operator prior to crossing any fence(s).

4.5.2 **Cattleguards**

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

4.5.3 **Livestock Watering Requirement**

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the proposed action.

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment operator if any damage occurs to structures that provide water to livestock.

- Livestock operators will be contacted, and adequate crossing facilities will be provided as needed to ensure livestock are not prevented from reaching water sources because of the open trench.
- Wildlife and livestock trails will remain open and passable by adding soft plugs (areas where the trench is excavated and replaced with minimal compaction) during the construction phase. Soft plugs with ramps on either side will be left at all well-defined livestock and wildlife trails along the open trench to allow passage across the trench and provide a means of escape for livestock and wildlife that may enter the trench.
- Trenches will be backfilled as soon as feasible to minimize the amount of open trench. The Operator will avoid leaving trenches open overnight to the extent possible and open trenches that cannot be backfilled immediately will have escape ramps (wooden) placed at no more than 2,500 feet intervals and sloped no more than 45 degrees.

5. PRODUCTION (POST DRILLING)

5.1 WELL STRUCTURES & FACILITIES

5.1.1 **Placement of Production Facilities**

Production facilities must be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

5.1.2 **Exclosure Netting (Open-top Tanks)**

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

5.1.4. Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone*.) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

5.1.5. Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

6. RECLAMATION

Stipulations required by the Authorized Officer on specific actions may differ from the following general guidelines

6.1 ROAD AND SITE RECLAMATION

Any roads constructed during the life of the well will have the caliche removed or linear burial. If contaminants are indicated then testing will be required for chlorides and applicable contaminate anomalies for final disposal determination (disposed of in a manner approved by the Authorized Officer within Federal, State and Local statutes, regulations, and ordinances) and seeded to the specifications in sections 6.5 and 6.6.

6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12”, unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion cause by run-off shall be addressed immediately.

6.3 INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations must undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche and any other surface material is required. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided in section 6.6.

Upon completion of interim reclamation, the operator shall submit a Sundry Notice, Subsequent Report of Reclamation (Form 3160-5).

6.4 FINAL ABANDONMENT & RECLAMATION

Prior to surface abandonment, the operator shall submit a Notice of Intent Sundry Notice and reclamation plan.

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding will be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (BLM_NM_CFO_Construction_Reclamation@blm.gov).

6.5 SEEDING TECHNIQUES

Seeds shall be hydro-seeded, mechanically drilled, or broadcast, with the broadcast-seeded area raked, ripped or dragged to aid in covering the seed. The seed mixture shall be evenly and uniformly planted over the disturbed area.

6.6 SOIL SPECIFIC SEED MIXTURE

The lessee/permitee shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed land application will be accomplished by mechanical planting using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area. Smaller/heavier seeds tend to drop the bottom of the drill and are planted first; the operator shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory BLM or Soil Conservation

District stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding or until several months of precipitation have occurred, enabling a full four months of growth, with one or more seed generations being established.

Seed Mixture 2, for Sandy Site

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG Resources Incorporated
WELL NAME & NO.:	PEACHTREE 24 FED COM 572H
LOCATION:	Section 24, T.26 S., R.33 E.
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

The above well is approved for the primary design and 5 Designs listed in the "EOG BLM Variance 5a - Alternate Shallow Casing Designs" document. The casing set points and directional plans for the wells in the batch are within the boundary conditions reviewed in the blanket design. The COA is written for the deepest well on the pad. Operator is responsible to review the cement volumes based on the set points, design executed and to achieve the TOC requirements listed in the COA.

Primary:

1. The **10-3/4** inch surface casing shall be set at approximately **941** feet **TVD** (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 **5173 per BLM Geologist** feet **TVD**. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:

    - Cement to surface. If cement does not circulate see B.1.a, c-d above.

3. Operator has also proposed ONLY running **6** inch casing or ONLY running **5.5** inch for the production string. Reviewed and is OK. The minimum required fill of cement behind the **6 x 5-1/2** inch production casing is:

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

Operator has proposed to pump down 8-5/8" X 6" or 5-1/2" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 5-1/2" or 6" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

Shallow Design A:

1. The **13-3/8** inch surface casing shall be set at approximately **941** feet **TVD** (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.

4. The **9-5/8** inch intermediate casing shall be set at approximately **5173 per BLM Geologist feet TVD**. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

    - Cement to surface. If cement does not circulate see B.1.a, c-d above.

2. The minimum required fill of cement behind the **5-1/2** inch production casing is:

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

Operator has proposed to pump down 9-5/8" X 5-1/2" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 5-1/2" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

Shallow Design B:

1. The **10-3/4** inch surface casing shall be set at approximately **941** feet **TVD** (a minimum of 70 feet (Eddy 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.

   If cement falls back, remedial cementing will be done prior to drilling out that string.

5. The **8-5/8** inch intermediate casing shall be set at approximately **5173 per BLM Geologist feet TVD** The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:

   - Cement to surface. If cement does not circulate see B.1.a, c-d above.

2. The minimum required fill of cement behind the **5-1/2** inch production casing is:

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

Operator has proposed to pump down 8-5/8" X 5-1/2" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 5-1/2" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

Shallow Design C:

1. The **13-3/8** inch surface casing shall be set at approximately **941** feet **TVD** (a minimum of 70 feet (Eddy 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.

6. The **9-5/8** inch intermediate casing shall be set at approximately **5173 per BLM Geologist feet TVD** The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

    - Cement to surface. If cement does not circulate see B.1.a, c-d above.

2. The minimum required fill of cement behind the **6** inch production casing is:

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

Operator has proposed to pump down 9-5/8" X 6" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 6" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

Shallow Design D:

1. The **13-3/8** inch surface casing shall be set at approximately **941** feet **TVD** (a minimum of 70 feet (Eddy 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.

7. The **9-5/8** inch intermediate casing shall be set at approximately **5173 per BLM Geologist feet TVD**. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

    - Cement to surface. If cement does not circulate see B.1.a, c-d above.

2. The minimum required fill of cement behind the **6** inch x **5.5** inch tapered production casing is:

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

Operator has proposed to pump down 8-5/8" X 6" x **5.5 " annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 6x 5.5" casing to surface after the second stage BH to verify TOC.**

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**

    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. 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.
    e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

(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 Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance:

i. Overlap clearance OK.
ii. Salt annular variance in place.
iii. 1" surface clearance not met. Operator aware and will perf and squeeze if necessary

Offline Cementing

Offline cementing OK for all three intervals if attached qualifiers are met and conducted in adherence to approved procedures. Notify the BLM prior to the commencement of any offline cementing procedure.

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 County
Call 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
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. 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.
        iii. BOP/BOPE test to be conducted per **43 CFR 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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 of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity 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-Q 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 3172**.
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:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. 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.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. 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.
    i. 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).

ii. 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.)

iii. 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 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 9410 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.

v. The results of the test shall be reported to the appropriate BLM office.

vi. 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.

vii. 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.

viii. 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 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.

JS 11/13/2025

AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Operator Certification Data Report

11/18/2025

Operator

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: SHEA BAILEY **Signed on:** 09/11/2025

Title: Regulatory Contractor

Street Address: 5509 CHAMPIONS BLVD

City: MIDLAND **State:** TX **Zip:** 79707

Phone: (432)214-9797

Email address: SHEA_BAILEY@EOGRESOURCES.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Application Data
11/18/2025

APD ID: 10400107023
Submission Date: 09/12/2025
Operator Name: EOG RESOURCES INCORPORATED
Well Name: PEACHTREE 24 FED COM
Well Number: 572H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400107023
Tie to previous NOS?
Submission Date: 09/12/2025
BLM Office: Carlsbad
User: SHEA BAILEY
Title: Regulatory Contractor
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM02965A
Lease Acres:
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? NO
Federal or Indian agreement:
Agreement number:
Agreement name:
Keep application confidential? N
Permitting Agent? NO
APD Operator: EOG RESOURCES INCORPORATED
Operator letter of

Operator Info

Operator Organization Name: EOG RESOURCES INCORPORATED
Operator Address: 600 17TH STREET, SUITE 1000 N
Zip: 80202
Operator PO Box:
Operator City: DENVER
State: CO
Operator Phone: (303)262-9894
Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO
Master Development Plan name:
Well in Master SUPO? NO
Master SUPO name:
Well in Master Drilling Plan? NO
Master Drilling Plan name:
Well Name: PEACHTREE 24 FED COM
Well Number: 572H
Well API Number:
Field/Pool or Exploratory? Field and Pool
Field Name: BRADLEY
Pool Name: BONESPRING

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** N **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** PEACHTREE 24 FED COM **Number:** 571H, 572H, 573H, 574H

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: **Distance to nearest well:** 33 FT **Distance to lease line:** 100 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: PEACHTREE_24_FED_COM__572H_C_102_S_20250911150920.pdf

Well work start Date: 11/06/2025 **Duration:** 25 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: **Reference Datum:** KELLY BUSHING

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	192	FSL	624	FWL	26S	33E	24	Tract M	32.0222129	-103.5325812	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 02965A	3343			Y
KOP Leg #1	50	FSL	660	FWL	26S	33E	24	Tract M	32.0218222	-103.5324667	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 02965A	-7730	11074	11073	Y
PPP Leg #1-1	100	FSL	660	FWL	26S	33E	24	Tract M	32.0219597	-103.5324667	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 02965A	-7942	11295	11285	Y

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
EXIT Leg #1	100	FNL	660	FWL	26S	33E	13	Tract D	32.0504329	-103.5324625	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 122621	-8207	21755	11550	Y
BHL Leg #1	100	FNL	660	FWL	26S	33E	13	Tract D	32.0504329	-103.5324625	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 122621	-8207	21755	11550	Y

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-55498	7280	BRADLEY, BONESPRING

Property Code	Property Name	Well Number
321383	PEACHTREE 24 FED COM	572H

OGRID No.	Operator Name	Ground Level Elevation
7377	EOG RESOURCES, INC.	3343'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	24	26S	33E	-	192' S	624' W	N 32.0222129	W 103.5325812	LEA

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	13	26S	33E	-	100' N	660' W	N 32.0504329	W 103.5324625	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidated Code
640	INFILL	Peachtree 24 Fed Com 307H	~~N~~ Y	C

Order Numbers: COMM SERIAL NUMBER -PENDING

Well Setbacks are under Common Ownership: ☐ Yes ☐ No

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	24	26S	33E	-	50' S	660' W	N 32.0218222	W 103.5324667	LEA

First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	24	26S	33E	-	100' S	660' W	N 32.0219597	W 103.5324667	LEA

Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	13	26S	33E	-	100' N	660' W	N 32.0504329	W 103.5324625	LEA

Unitized Area or Area of Uniform Interest	Spacing Unity Type	Ground Floor Elevation
COMM AGREEMENT	☒ Horizontal ☐ Vertical	3368'

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Shea Bailey 9/11/25

Signature Date

SHEA BAILEY

Print Name

Shea_bailey@eogresources.com

E-mail Address

SURVEYORS CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/30/2025 1:22:04 PM

Signature and Seal of Professional Surveyor Date

Certificate Number

Date of Survey 06/28/2025

S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\LO_PEACHTREE_24_FED_COM_572H.dwg HAALL3 7/30/2025 1:22 PM

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal Type:
- [X] Initial Submittal
- [ ] Amended Report
- [ ] As Drilled

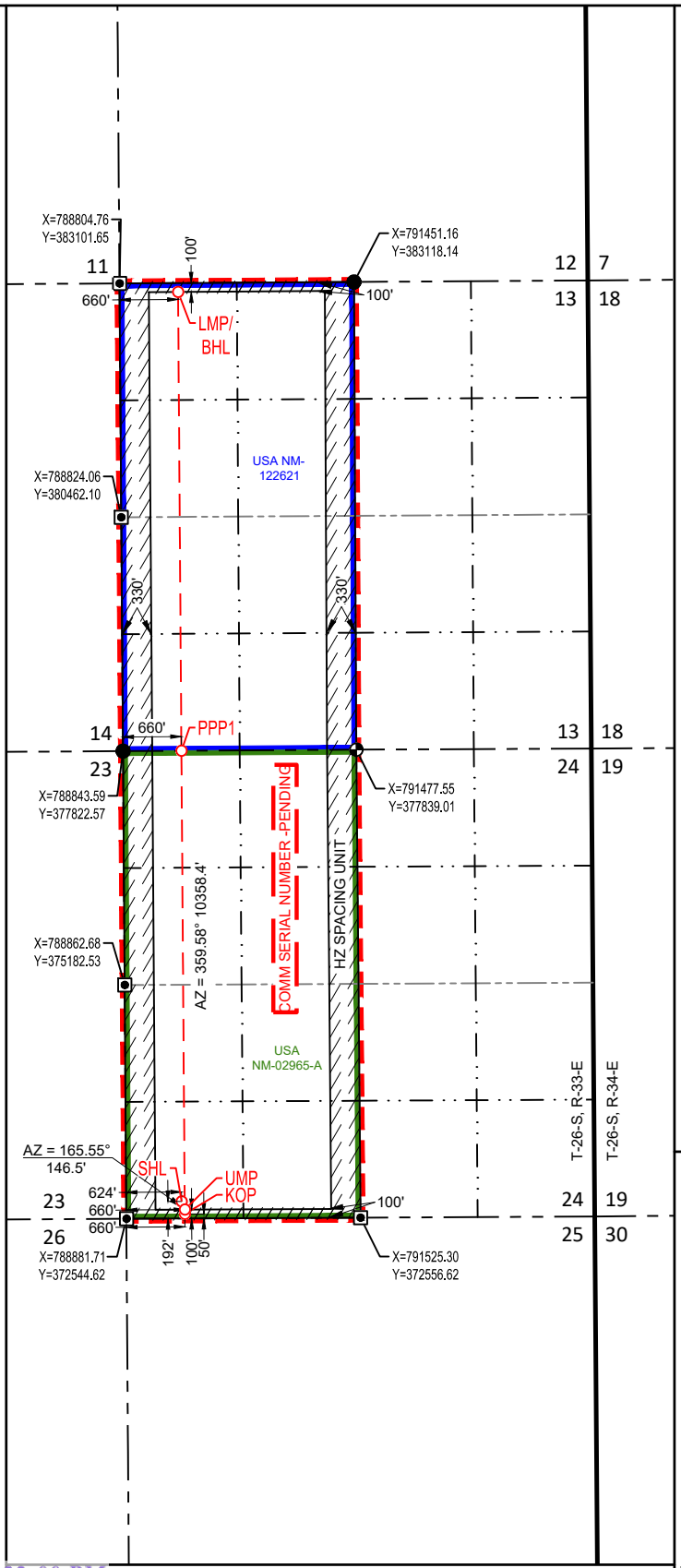
Property Name and Well Number

PEACHTREE 24 FED COM 572H

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=789505 Y=372739
LAT.: N 32.0222129
LONG.: W 103.5325812
NAD 1927
X=748317 Y=372682
LAT.: N 32.0220867
LONG.: W 103.5321156
192' FSL 624' FWL

KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
X=789541 Y=372598
LAT.: N 32.0218222
LONG.: W 103.5324667
NAD 1927
X=748354 Y=372540
LAT.: N 32.0216960
LONG.: W 103.5320011
50' FSL 660' FWL

UPPER MOST PERF. (UMP)
NEW MEXICO EAST
NAD 1983
X=789541 Y=372648
LAT.: N 32.0219597
LONG.: W 103.5324667
NAD 1927
X=748353 Y=372590
LAT.: N 32.0218335
LONG.: W 103.5320011
100' FSL 660' FWL



PROPOSED PERF. POINT (PPP1)
NEW MEXICO EAST
NAD 1983
X=789503 Y=377827
LAT.: N 32.0361963
LONG.: W 103.5324646
NAD 1927
X=748316 Y=377769
LAT.: N 32.0360703
LONG.: W 103.5319984
0' FNL 660' FWL

LOWER MOST PERF. (LMP)
BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=789465 Y=383006
LAT.: N 32.0504329
LONG.: W 103.5324625
NAD 1927
X=748278 Y=382948
LAT.: N 32.0503071
LONG.: W 103.5319957
100' FNL 660' FWL

SURVEYORS CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

06/28/2025
Date of Survey
Signature and Seal of Professional Surveyor:

RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

7/30/2025 1:22:04 PM

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AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report
11/18/2025

APD ID: 10400107023
Submission Date: 09/12/2025
Operator Name: EOG RESOURCES INCORPORATED
Well Name: PEACHTREE 24 FED COM
Well Number: 572H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16805529	PERMIAN	3343	0	0	ALLUVIUM	NONE	N
16805530	RUSTLER	2504	839	839	ANHYDRITE	NONE	N
16805531	TOP OF SALT	2150	1193	1193	SALT	NONE	N
16805532	BASE OF SALT	-1691	5034	5034	SALT	NONE	N
16805533	LAMAR	-1927	5270	5270	LIMESTONE	NONE	N
16805534	BELL CANYON	-1950	5293	5293	SANDSTONE	NATURAL GAS, OIL	N
16805535	CHERRY CANYON	-3017	6360	6360	SANDSTONE	NATURAL GAS, OIL	N
16805536	BRUSHY CANYON	-4541	7884	7884	SANDSTONE	NATURAL GAS, OIL	N
16805537	BONE SPRING LIME	-6174	9517	9517	LIMESTONE	NONE	N
16805538	AVALON SAND	-6197	9540	9540	SANDSTONE	NONE	Y
16805539	BONE SPRING 1ST	-7111	10454	10454	SANDSTONE	NATURAL GAS, OIL	N
16805540	BONE SPRING 2ND	-7614	10957	10957	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M
Rating Depth: 11550

Equipment: SEE ATTACHED DRILL PLAN

Requesting Variance? YES

Variance request: SEE ATTACHED VARIANCE LIST FOR FULL LIST OF REQUESTS

Testing Procedure: SEE ATTACHED DRILL PLAN

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Choke Diagram Attachment:

10_M_Choke_Manifold_20250827094243.pdf

BOP Diagram Attachment:

10_M_BOP_Diagram_13.625_in_20250827094320.pdf

Wellhead_3_string_10.750x8.625x5.500_SDT_3141_20250827094319.pdf

EOG_Cameron_3_String_13in_10M_MNDS_20250827094320.PDF

Wellhead_3_string_10.750x8.625x6.000_SDT_3141_20250827094320.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	13	10.75	NEW	API	N	0	941	0	941	3343	2402	941	J-55	40.5	ST&C	1.125	1.25	BUOY	1.6	BUOY	1.6
2	INTERMEDIATE	9.875	8.625	NEW	API	N	0	5322	0	5320	3343	-1977	5322	J-55	32	OTHER - BT&C	1.25	1.125	BUOY	1.6	BUOY	1.6
3	PRODUCTION	7.875	6.0	NEW	API	N	0	10974	0	10973	3343	-7630	10974	P-110	24.5	OTHER - VAM SPRINT TC	1.125	1.25	BUOY	1.6	BUOY	1.6
4	PRODUCTION	6.75	5.5	NEW	API	N	10974	21755	10973	11550	-7630	-8207	10781	P-110	20	OTHER - VAM SPRINT SF	1.125	1.25	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20250910132916.pdf

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Casing Attachments

10.750in_40.5ppf_J55_STC_20250910132916.pdf

Peachtree_24_Fed_Com_572H_Permit_Info_20250911151416.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

8.625in_32ppf_J55_BTC_SC_20250910132842.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

6.000in_24.50ppf_CDS_P110EC_VAM_SPRINT_TC_20250910132826.pdf

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5.500in_20.00ppf_P110EC_SPRINT_SF_20250911071712.pdf

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	750	220	1.73	13.5	380.6	25	CLASS C/H	Lead: Class C/H + additives (TOC @ Surface)
SURFACE	Tail		750	950	120	1.34	14.8	160.8	25	CLASS C/H	Tail: Class C/H + additives (TOC @ 750')
INTERMEDIATE	Lead		0	4257	320	2.22	12.7	710.4	25	CLASS C/H	Lead: Class C/H + additives + expansive additives (TOC @ Surface)
INTERMEDIATE	Tail		4257	5430	150	1.32	14.8	198	25	CLASS C/H	Tail: Class C/H + additives + expansive additives (TOC @ 4257')
PRODUCTION	Lead		0	7890	1000	1.32	14.8	1320	25	CLASS C/H	Bradenhead squeeze: Class C/H + additives + expansive additives (TOC @ surface)
PRODUCTION	Tail		7890	21755	1640	1.52	13.2	2492.8	25	CLASS C/H	Tail: Class C/H + additives (TOC @ 7890')

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: (A) A kelly cock will be kept in the drill string at all times. (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times. (C) H2S monitoring and detection equipment will be utilized from surface casing point to TD.

Describe the mud monitoring system utilized: The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 ppg may be utilized. An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

Circulating Medium Table

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	941	WATER-BASED MUD	8.6	8.8							
941	5320	SALT SATURATED	9.8	10.8							
5320	11550	OIL-BASED MUD	8.8	9.5							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Open-hole logs are not planned for this well.
GRCCL will be run in cased hole during completions phase of operations.

List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY,GAMMA RAY LOG,

Coring operation description for the well:

NONE

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5405 **Anticipated Surface Pressure:** 2863

Anticipated Bottom Hole Temperature(F): 186

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Peachtree_24_Fed_Com_572H_H2S_Plan_Summary_20250911151518.pdf

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Peachtree_24_Fed_Com_572H_Wall_Plot_20250911151534.pdf

Peachtree_24_Fed_Com_572H_Planning_Report_20250911151534.pdf

Other proposed operations facets description:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and Cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both A and B sections). The weld will be tested to 1,000 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

Other proposed operations facets attachment:

BLM_Waste_Management_Plan_Lea_County__20250828151207.pdf

Blanket_Casing_Design___Peachtree_24_Fed_Com_SHALLOW_Permits_7.30.2025_20250828151136.pdf

EOG_Cameron_3_String_13in_10M_MNDS_20250828151358.PDF

Wellhead_3_string_10.750x8.625x5.500_SDT_3141_20250828151413.pdf

Wellhead_3_string_10.750x8.625x6.000_SDT_3141_20250828151426.pdf

Peachtree_24_Fed_Com_572H_Rig_Layout_20250911151849.pdf

Peachtree_24_Fed_Com_572H_Permit_Info_20250911151849.pdf

Other Variance request(s)?: Y

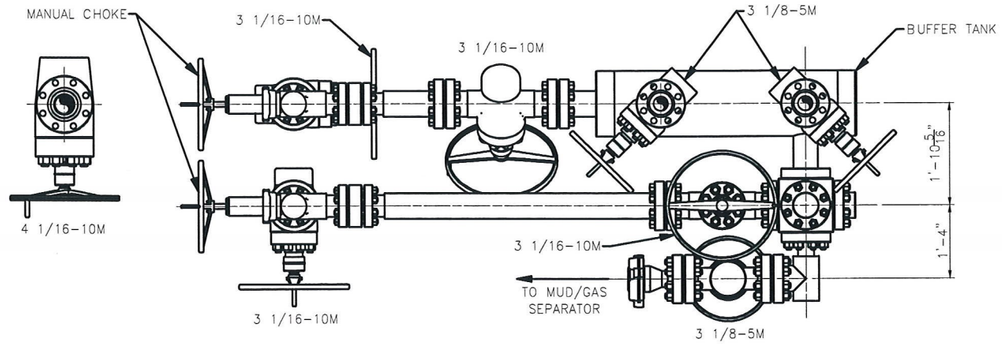
Other Variance attachment:

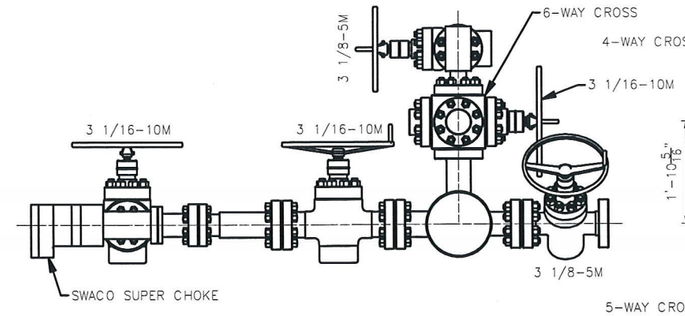
EOG_BLM_Master_Variance_Document_04.24.25_V2_20250828151438.pdf

EOG_BLM_Variance_1c___10M_Annular_Variance___3_String_Large_surface_hole_20250828151309.pdf

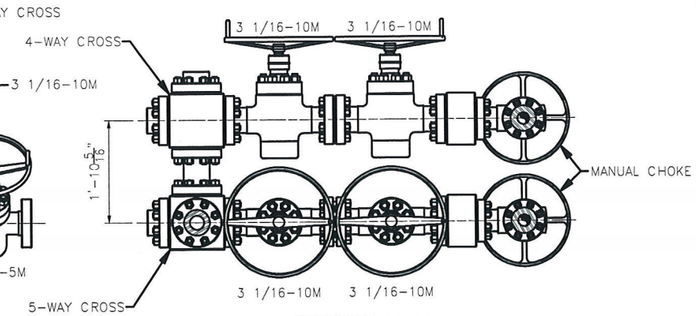
EOG_BLM_Variance_5a___Alternate_Shallow_Casing_Designs_V6_2024.11.20_20250828151318.pdf

Gates_Co_Flex_Hose_Test_Chart_and_Certifications_20250828151328.pdf

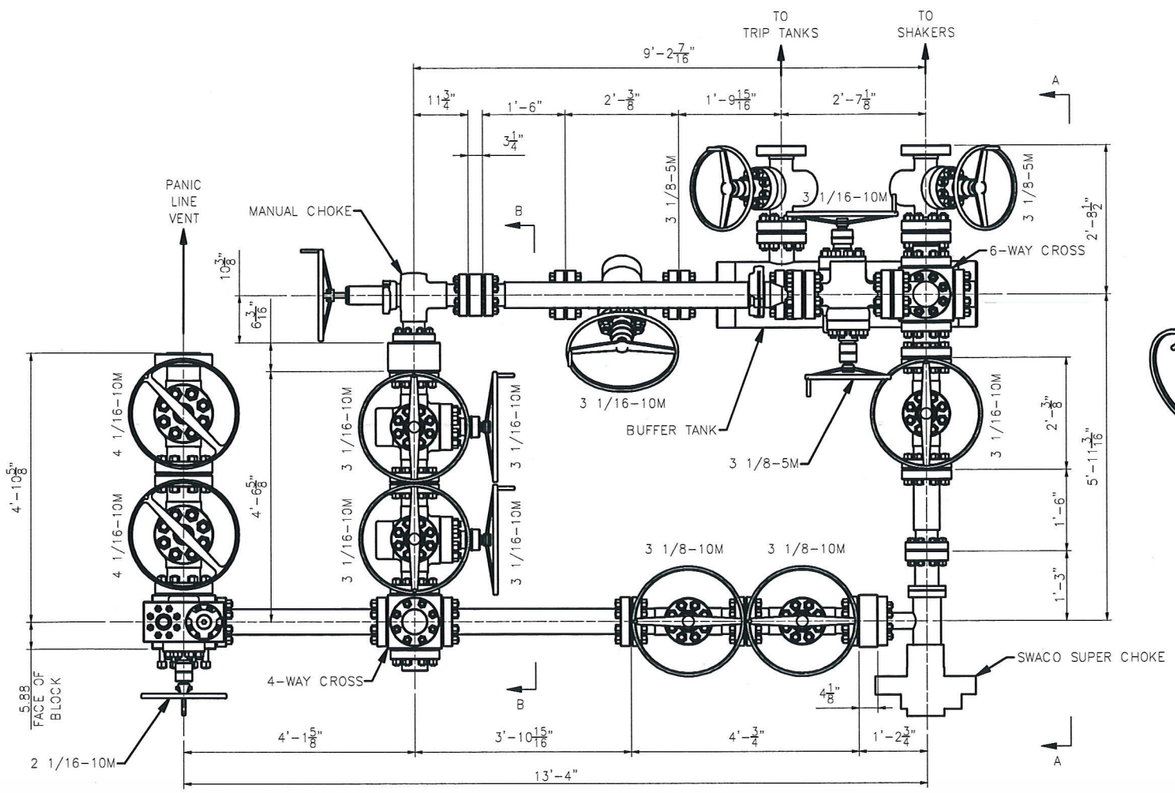




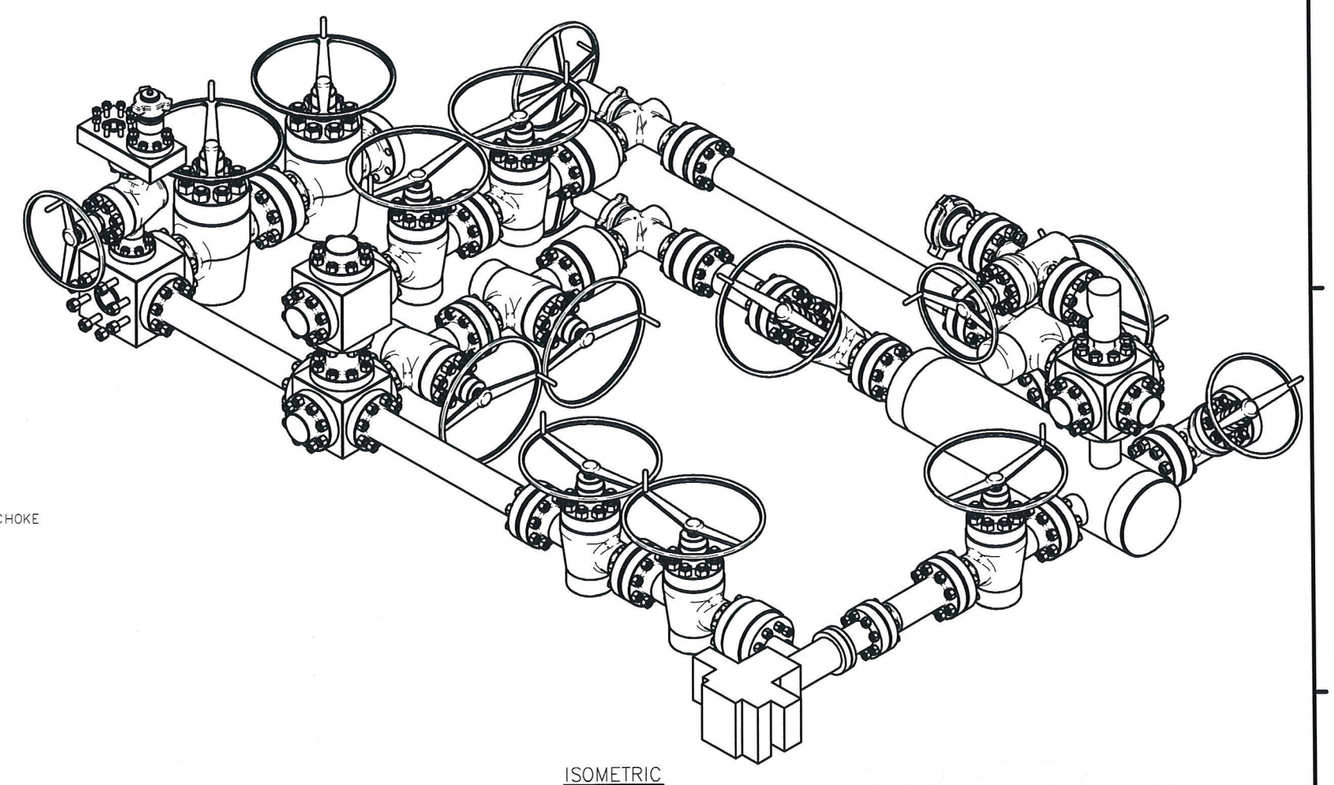
VIEW A-A



SECTION B-B



PLAN VIEW



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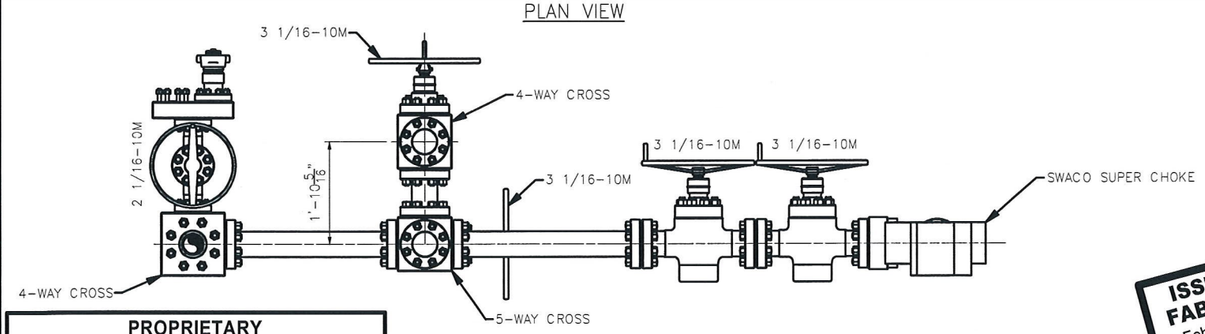

PROPRIETARY

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ISSUED FOR FABRICATION
February-10-2014
DRAFTSMAN MWL
ENGINEER

STANDARD TOLERANCES
(UNLESS NOTED)

1. FABRICATION DIMENSIONS:	A-0" TO 24"	± 1/16"
	B-24" TO 120"	± 1/8"
	C-OVER 120"	± 1/4"
2. MACHINED DIMENSIONS:	A-ANGULAR	± .30'
	B-LINEAR (EXPRESSED AS FRACTION)	± .015
	LINEAR (EXPRESSED TO ONE DECIMAL)	± .1
	LINEAR (EXPRESSED TO TWO DECIMALS)	± .015
	LINEAR (EXPRESSED TO THREE DECIMALS)	± .005

REV	DATE	DESCRIPTION	BY
–			

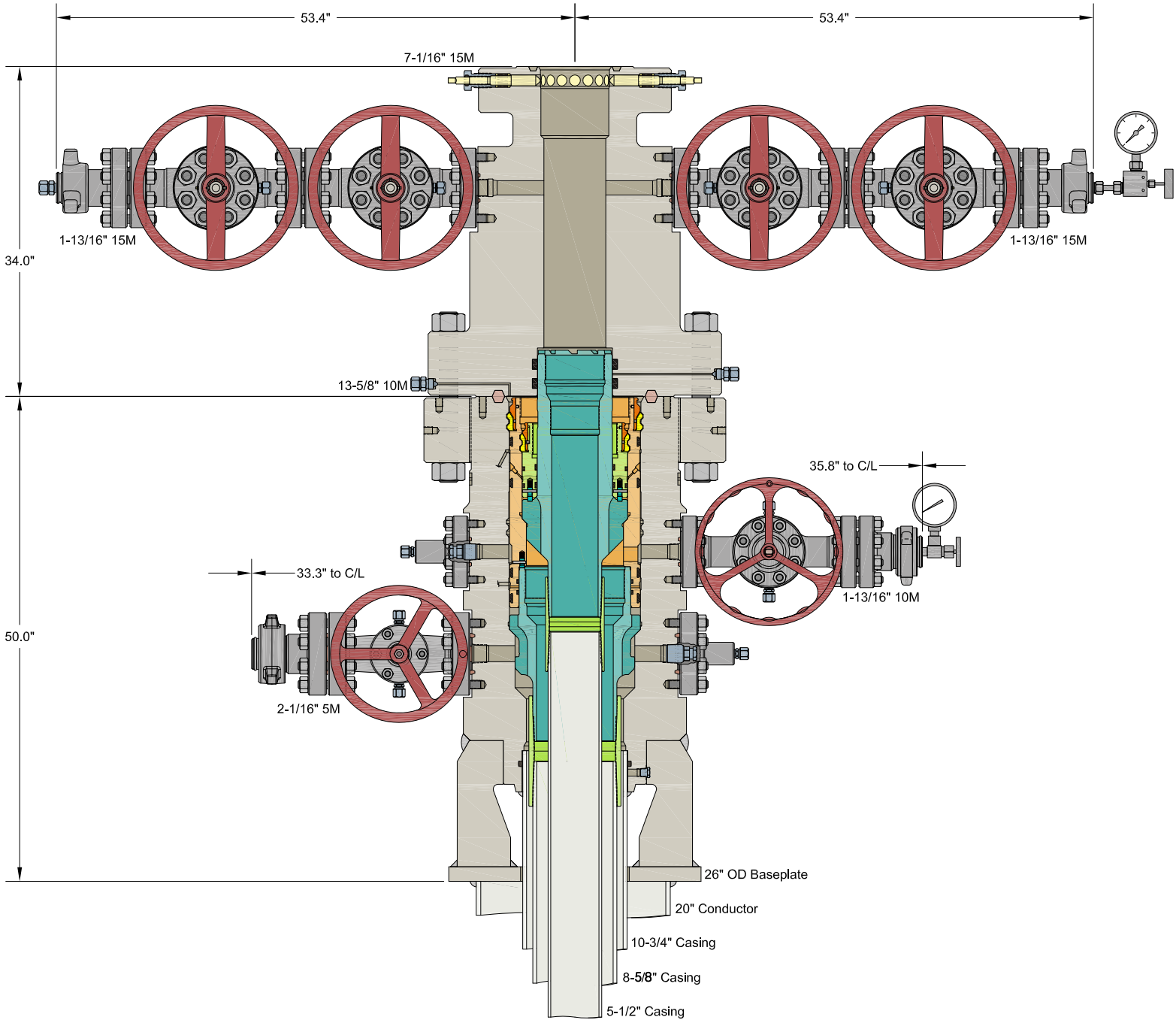
HELMERICH & PAYNE INTERNATIONAL DRILLING CO.

TITLE: 3 CHOKE, 3 LEVEL, 10M CHOKE MANIFOLD G.A.

CUSTOMER: H&P

PROJECT:

DRAWN: MWL	DATE: 2/10/2014	DWG. NO.: HP-D1254	REV: –
SCALE: 3/4"=1'-0"	SHEET: 1 OF 1		



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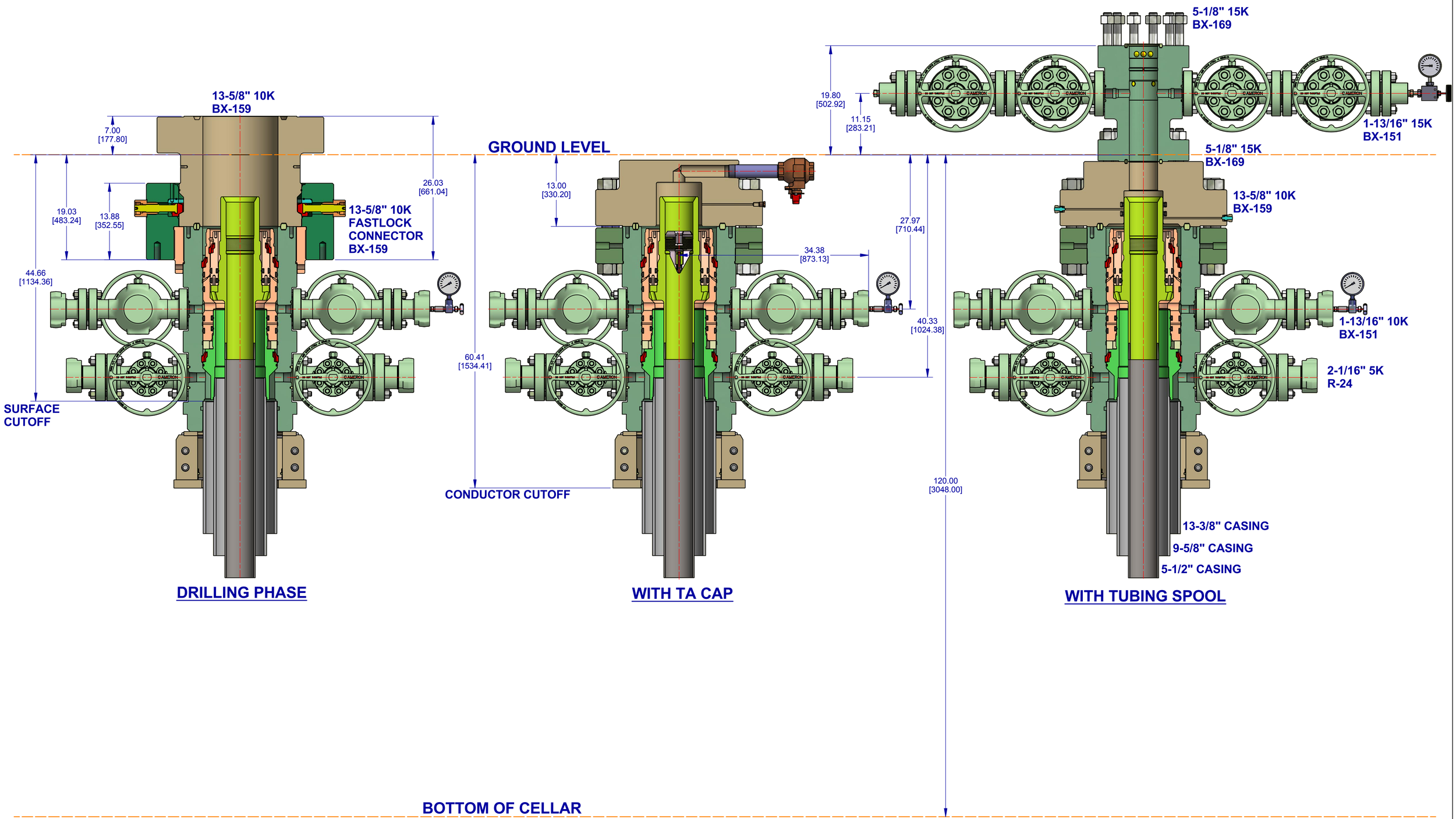
ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	EOG RESOURCES		
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 And 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head	DRAWN	DLE	14APR21
	APPRV		
	DRAWING NO.	SDT-3141	

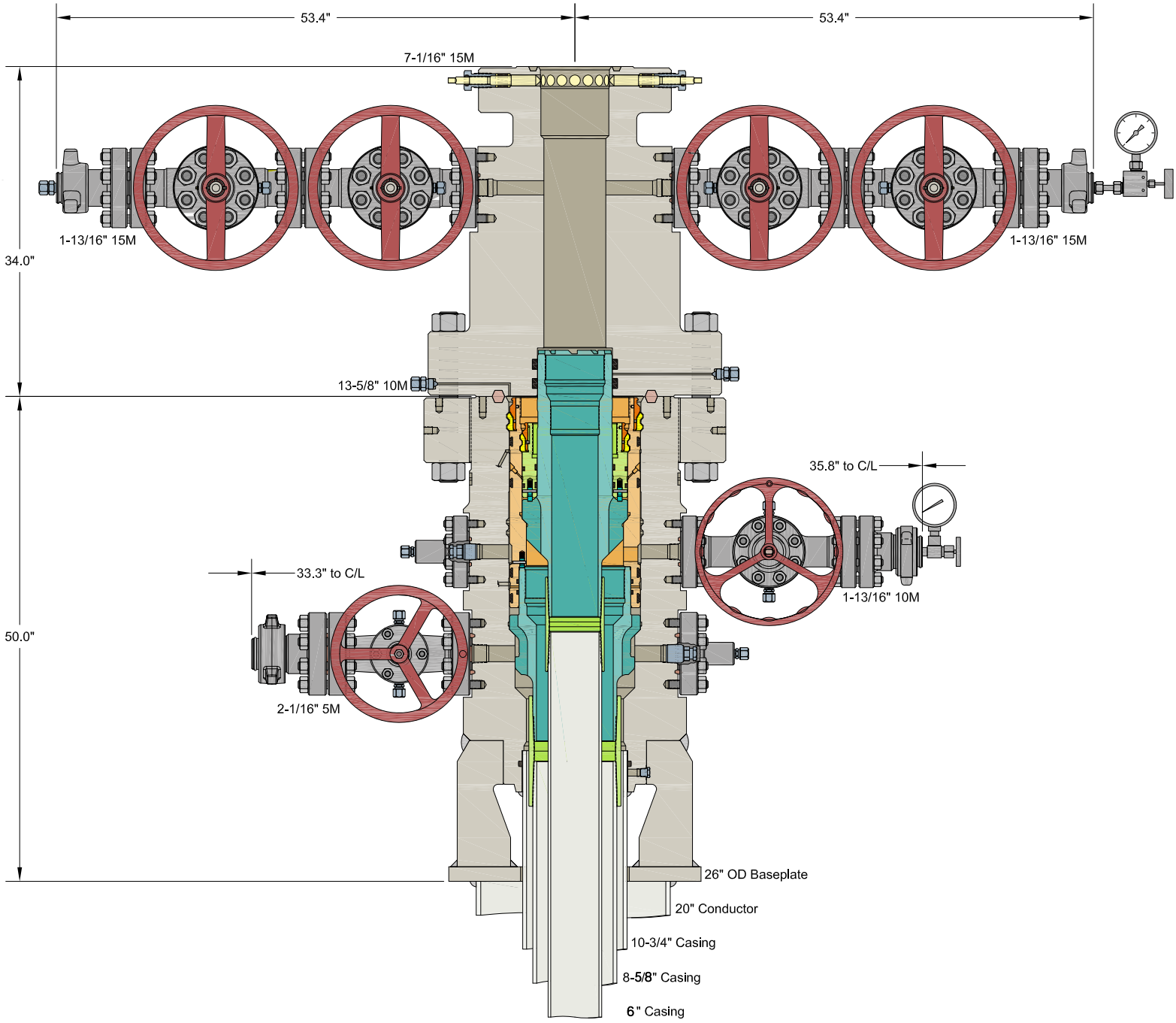


CONFIDENTIAL

THIRD ANGLE	DESIGNED IN INCHES DIMENSIONAL UNITS INCHES [MILLIMETERS]	MACHINING TOLERANCES UNLESS OTHERWISE SPECIFIED .X [0.]: ± = [] .XX [0.X]: ± = [] .XXX [0.XX]: ± = [] ANGLES: ± ° RA ON ALL MACHINED SURFACES	SURFACE TREATMENT: DO NOT SCALE
MACHINED FILLET RADII .015-.050 [0.38-1.27]. BREAK ALL SHARP EDGES .01-.03 [0.2-0.8] RADII OR 45°. SURFACE FINISH IN MICRO (µ) INCHES (Ra). INTERPRET DRAWING PER ASME Y14.5, ASME Y14.36, AND AWS A2.4 STANDARDS. SEE B/M FOR MATERIAL AND SPECIAL REQUIREMENTS. ITEM NUMBERS NOT APPEARING ON B/M DO NOT APPLY.			MATERIAL & HEAT TREAT

DRAWN BY: KEN REED	DATE 6 Nov 18	CAMERON A Schlumberger Company	SURFACE SYSTEMS
CHECKED BY: PA	DATE 6 Nov 18	EOG RESOURCES, INC 13-5/8" 10K MN-DS WELLHEAD 13-3/8" X 9-5/8" X 5-1/2"	
APPROVED BY: APPROVER NAME	DATE 6 Nov 18		
ESTIMATED WEIGHT: 8147.2 LBS 3695.5 KG	INITIAL USE B/M: EWR:650353762	SHEET 1 OF 1	SD-052491-19-07 REV. 01

INVENTOR - D



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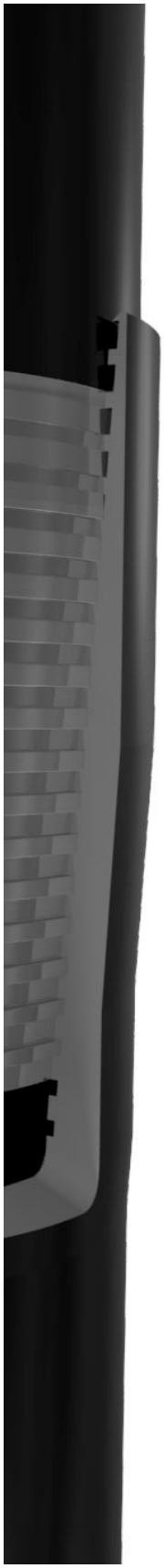
ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	EOG RESOURCES		
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 And 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head	DRAWN	DLE	14APR21
	APPRV		
	DRAWING NO.	SDT-3141	



Issued on: 08 Jul. 2020 by Wesley Ott

VAM® SPRINT-SF
Connection Data Sheet

OD	Weight	Wall Th.	Grade	API Drift:	Connection
5 1/2 in.	20.00 lb/ft	0.361 in.	P110EC	4.653 in.	VAM® SPRINT-SF

PIPE PROPERTIES		
Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Cross Section Area	5.828	sqin.
Grade Type		High Yield
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi

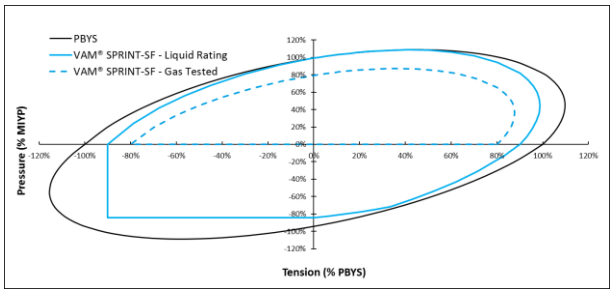
CONNECTION PROPERTIES		
Connection Type		Semi-Premium Integral Semi-Flush
Connection OD (nom):	5.783	in.
Connection ID (nom):	4.717	in.
Make-Up Loss	5.965	in.
Critical Cross Section	5.244	sqin.
Tension Efficiency	90.0	% of pipe
Compression Efficiency	90.0	% of pipe
Internal Pressure Efficiency	100	% of pipe
External Pressure Efficiency	100	% of pipe

CONNECTION PERFORMANCES		
Tensile Yield Strength	656	klb
Compression Resistance	656	klb
Internal Yield Pressure	14,360	psi
Collapse Resistance	12,080	psi
Max. Structural Bending	89	°/100ft
Max. Bending with ISO/API Sealability	30	°/100ft

* 87.5% RBW

TORQUE VALUES		
Min. Make-up torque	20,000	ft.lb
Opt. Make-up torque	22,500	ft.lb
Max. Make-up torque	25,000	ft.lb
Max. Torque with Sealability (MTS)	40,000	ft.lb

VAM® SPRINT-SF is a semi-flush connection innovatively designed for extreme shale applications. Its high tension rating and ultra high torque capacity make it ideal to run a fill string length as production casing in shale wells with extended horizontal sections and tight clearance requirements.



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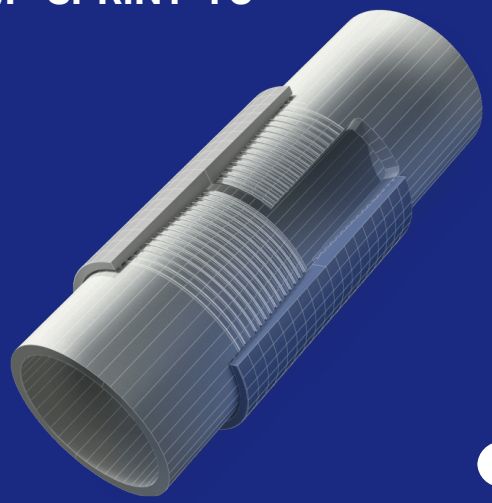
Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance

Generated on November 28, 2023

CONNECTION DATA SHEET

OD: **6.000 in.** Grade: **P110 EC**
Weight: **24.50 lb/ft** Drift: **5.075 in. (API)**
Wall Th.: **0.400 in.**

VAM® SPRINT-TC



T&C

Field Torque Values

Make-up Torque (ft-lb)
- 25,000 **MIN**
- 26,000 **OPTI**
- 27,000 **MAX**

Torque with Sealability (ft-lb)
- 52,600 **MTS**

Locked Flank Torque (ft-lb)
- 1,300 **MIN**
- 18,200 **MAX**

(2) MTS: Maximum Torque with Sealability.
Note: Thread compound must be applied as a thin even layer

PIPE BODY PROPERTIES

Nominal OD	6.000	*in.*
Nominal ID	5.200	*in.*
Nominal Wall Thickness	0.400	*in.*
Minimum Wall Thickness	87.5	*%*
Nominal Weight (API)	24.50	*lb/ft*
Plain End Weight	23.95	*lb/ft*
Drift	5.075	*in.*
Grade Type	High Yield	
Minimum Yield Strength	125	*ksi*
Maximum Yield Strength	140	*ksi*
Minimum Ultimate Tensile Strength	135	*ksi*
Pipe Body Yield Strength	880	*klb*
Internal Yield Pressure	14,580	*psi*
Collapse Pressure	12,500	*psi*

CONNECTION PROPERTIES

Connection Type	Semi-Premium Threaded & Coup	
Nominal Connection OD	6.525	*in.*
Nominal Connection ID	5.267	*in.*
Make-up Loss	4.283	*in.*
Coupling Length	8.831	*in.*
Tension Efficiency	100	*% Pipe Body*
Compression Efficiency	100	*% Pipe Body*
Internal Pressure Efficiency	100	*% Pipe Body*
External Pressure Efficiency	100	*% Pipe Body*

JOINT PERFORMANCES

Tension Strength	880	*klb*
Compression Strength	880	*klb*
Internal Pressure Resistance	14,580	*psi*
External Pressure Resistance	12,500	*psi*
Maximum Bending, Structural	95	*°/100 ft*
Maximum Bending, with Sealability(1)	30	*°/100 ft*
Maximum Load on Coupling Face	373	*klb*

(1) Sealability rating demonstrated as per API RP 5C5 / ISO 13679

BOOST YOUR EFFICIENCY, REDUCE COSTS AND ENSURE 100% WELL INTEGRITY WITH
VAM® FIELD SERVICE

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VALLOUREC STAR 8.625 32# J55 S S2L2 DA 7.875 W/O# SLN # PO# MADE IN USA FT LB

vallourec

API 5CT, 10th Ed. Connection Data Sheet

O.D. (in)	WEIGHT (lb/ft)	WALL (in)	GRADE	*API DRIFT (in)	RBW %
8.625	Nominal: 32.00 Plain End: 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
Performance	
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 - Cplg 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

BTC Torque (ft-lbs)

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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See previously attached Drill Plan

Received by OCD: 11/19/2025 6:32:24 AM

Pipe Body and API Connections Performance Data

10.750 40.50/0.350 J55

PDF

New Search »

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USC Metric

6/8/2015 10:14:05 AM

Mechanical Properties	Pipe	BTC	LTC	STC	
Minimum Yield Strength	55,000	--	--	--	psi
Maximum Yield Strength	80,000	--	--	--	psi
Minimum Tensile Strength	75,000	--	--	--	psi
Dimensions	**Pipe**	**BTC**	**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	--	--	--	--	in.
Nominal Linear Weight, T&C	40.50	--	--	--	lbs/ft
Plain End Weight	38.91	--	--	--	lbs/ft
Performance	**Pipe**	**BTC**	**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	--	--	--	1000 lbs
Joint Strength	--	700	--	420	1000 lbs
Reference Length	--	11,522	--	6,915	ft
Make-Up Data	**Pipe**	**BTC**	**LTC**	**STC**	
Make-Up Loss	--	4.81	--	3.50	in.
Minimum Make-Up Torque	--	--	--	3,150	ft-lbs
Maximum Make-Up Torque	--	--	--	5,250	ft-lbs

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Peachtree 24 Fed Com #572H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	839'
Tamarisk Anhydrite	916'
Top of Salt	1,193'
Base of Salt	5,034'
Lamar	5,270'
Bell Canyon	5,293'
Cherry Canyon	6,360'
Brushy Canyon	7,884'
Bone Spring Lime	9,517'
Leonard (Avalon) Shale	9,540'
1st Bone Spring Sand	10,454'
2nd Bone Spring Shale	10,675'
2nd Bone Spring Sand	10,957'
3rd Bone Spring Carb	11,370'
3rd Bone Spring Sand	12,098'
TD	11,550'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400’	Fresh Water
Lamar	5,270'	Oil
Cherry Canyon	6,360'	Oil
Brushy Canyon	7,884'	Oil
Bone Spring Lime	9,517'	Oil
Leonard (Avalon) Shale	9,540'	Oil
1st Bone Spring Sand	10,454'	Oil
2nd Bone Spring Shale	10,675'	Oil
2nd Bone Spring Sand	10,957'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 10-3/4" casing at 941' and circulating cement back to surface.

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Peachtree 24 Fed Com #572H

4. PRIMARY APD CASING PROGRAM

Hole Size	Interval MD From (ft)	Interval MD To (ft)	Interval TVD From (ft)	Interval TVD To (ft)	Csg OD	Weight	Grade	Conn
13"	0	941	0	941	10-3/4"	40.5#	J-55	STC
9-7/8"	0	5,322	0	5,320	8-5/8"	32#	J-55	BTC-SC
7-7/8"	0	10,974	0	10,973	6"	24.5#	P110-EC	VAM Sprint-TC
6-3/4"	10,974	21,755	10,973	11,550	5-1/2"	20#	P110-EC	VAM Sprint SF

**For highlighted rows above, variance is requested to run entire string of either 6'' or 5-1/2'' casing string above due to availablility.

Hole will be full during casing run for well control and tensile SF factor. Casing will be kept at least half full during run for this design to meet BLM collapse SF requirement. External pressure will be reviewed prior to conducting casing pressure tests to ensure that 70% of the yield is not exceeded.

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 6" and 5-1/2" casings in the 7-7/8" and 6-3/4" hole sizes. An expansion additive will be utilized in the cement slurry for the entire length of the 7-7/8" and 6-3/4" hole intervals 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 Title 43 CFR Part 3170 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.

5. CEMENTING PROGRAM:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
950' 10-3/4"	220	13.5	1.73	Lead: Class C/H + additives (TOC @ Surface)
	120	14.8	1.34	Tail: Class C/H + additives (TOC @ 750')
5,420' 8-5/8"	320	12.7	2.22	Lead: Class C/H + additives + expansive additives (TOC @ Surface)
	150	14.8	1.32	Tail: Class C/H + additives + expansive additives (TOC @ 4257')
21,755' 6"	1000	14.8	1.32	Bradenhead squeeze: Class C/H + additives + expansive additives (TOC @ surface)
	1640	13.2	1.52	Tail: Class C/H + additives (TOC @ 7890')

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Peachtree 24 Fed Com #572H

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

Cement integrity tests will be performed immediately following plug bump.

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.

EOG requests variance from minimum standards to pump a two stage cement job on the 6" and 5-1/2" production casing strings with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,884') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of Class C/H cement + additives (1.32 yld, 14.8 ppg) will be executed as a contingency. Top will be verified by Echo-meter.

Bradenhead will be the primary option for production cementing. EOG also requests to have the conventional option in place to accommodate for logistical or wellbore conditions. The tie back requirements will be met if the cement is pumped conventionally, and cement volumes will be adjusted accordingly. TOC will be verified by CBL.

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6. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

EOG will utilize wing unions on BOPE connections that can be isolated from wellbore pressure through means of a choke. All wing unions will be rated to a pressure that meets or exceeds the pressure rating of the BOPE system.

Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 10,000/ 250 psig and the annular preventer to 5,000/ 250 psig.

Pipe rams and blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

7. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 941'	Fresh - Gel	8.6-8.8	28-34	N/c
941' – 5,320'	Brine	9.8-10.8	28-34	N/c
5,320' – 21,755' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

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Peachtree 24 Fed Com #572H

8. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

(A) A kelly cock will be kept in the drill string at all times.
(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
(C) H2S monitoring and detection equipment will be utilized from surface casing point to TD.

9. LOGGING, TESTING AND CORING PROGRAM:

(A) Open-hole logs are not planned for this well.
(B) GR–CCL will be run in cased hole during completions phase of operations.

10. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 186 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 5,405 psig and a maximum anticipated surface pressure of 2,864 psig (based on 9.0 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7,884' to intermediate casing point.

11. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and Cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both “A” and “B” sections). The weld will be tested to 1,500 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

12. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the surface casing, a BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Title 43 CFR Part 3170.

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 10,000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. EOG Resources reserves the option to conduct BOPE testing during wait on cement periods provided a test plug is utilized.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

Casing strings will be tested as per Title 43 CFR Part 3170 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.

13. VARIANCE REQUESTS:

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

- EOG BLM Variance 3e - BOP Break-test and Offline Surface and Intermediate Cement
- EOG BLM Variance 3d - Production Offline Cement
- EOG BLM Variance 4a - Salt Section Annular Clearance
- EOG BLM Variance 5a - Alternate Shallow Casing Designs

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Peachtree 24 Fed Com #572H

14. 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.

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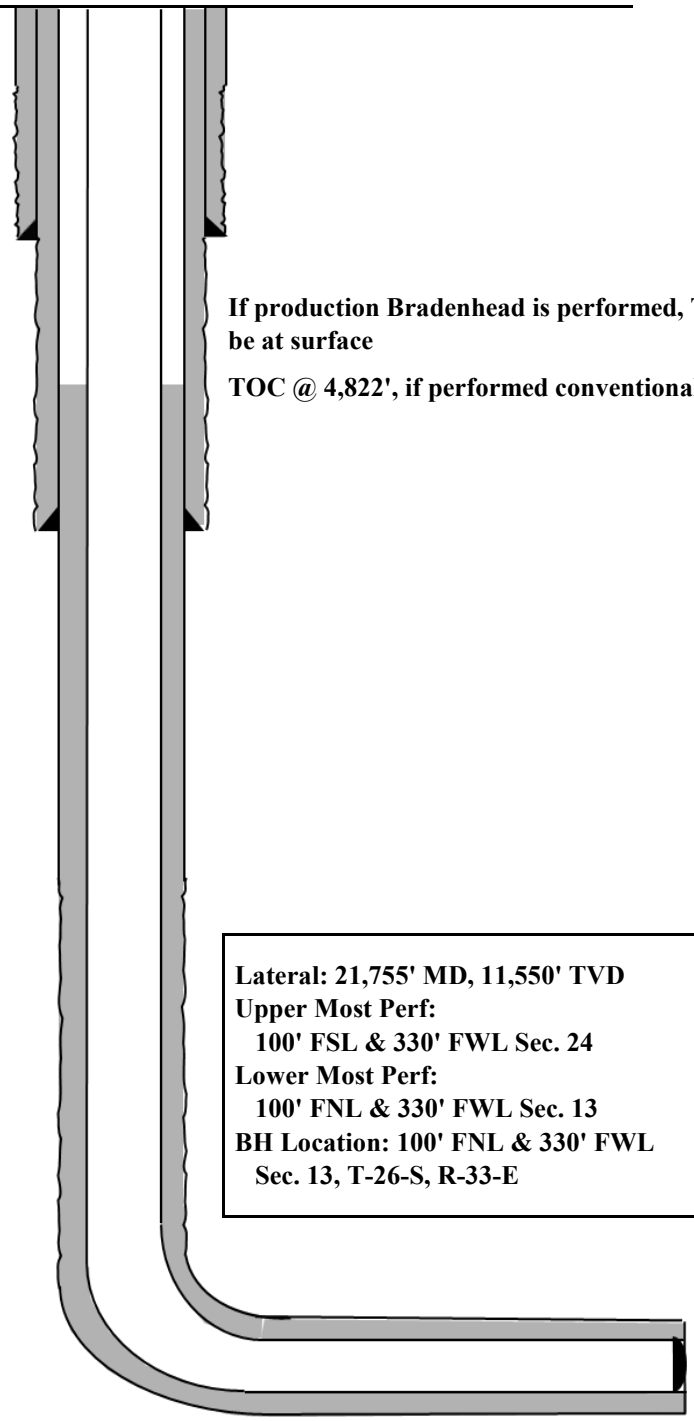
Peachtree 24 Fed Com #572H

340' FNL
918' FWL
Section 24
T-26-S, R-33-E

Proposed Wellbore

API: 30-025-*****

KB: 3368'
GL: 3343'



Bit Size: 13"
10-3/4", 40.5#, J-55, STC
@ 0' - 941' MD
@ 0' - 941' TVD

If production Bradenhead is performed, TOC will be at surface

TOC @ 4,822', if performed conventionally.

Bit Size: 9-7/8"
8-5/8", 32.#, J-55, BTC-SC
@ 0' - 5,322' MD
@ 0' - 5,320' TVD

Lateral: 21,755' MD, 11,550' TVD
Upper Most Perf:
100' FSL & 330' FWL Sec. 24
Lower Most Perf:
100' FNL & 330' FWL Sec. 13
BH Location: 100' FNL & 330' FWL
Sec. 13, T-26-S, R-33-E

Bit Size: 7-7/8"|Bit Size: 6-3/4"
6", 24.5#, P110-EC, VAM Sprint-TC
@ 0' - 10,974' MD
@ 0' - 10,973' TVD

5-1/2", 20.#, P110-EC, VAM Sprint SF
@ 10,974' - 21,755' MD
@ 10,973' - 11,550' TVD

KOP: 11,074' MD, 11,073' TVD
EOC: 11,824' MD, 11,550' TVD

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Peachtree 24 Fed Com #572H

Hydrogen Sulfide Plan Summary

A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.

B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.

C. Required Emergency Equipment:

- **Well control equipment**
  a. Flare line 150' from wellhead to be ignited by flare gun.
  b. Choke manifold with a remotely operated choke.
  c. Mud/gas separator
- **Protective equipment for essential personnel:**
  a. Breathing Apparatus:
     i. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
     ii. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
     iii. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.
  b. Auxiliary Rescue Equipment:
     i. Stretcher
     ii. Two OSHA full body harness
     iii. 100 ft 5/8 inch OSHA approved rope
     iv. 1-20# class ABC fire extinguisher

- **H2S Detection and Monitoring Equipment:**
  The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged. (Gas sample tubes will be stored in the safety trailer)

- **Visual Warning System:**
  a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
  b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
  c. Two wind socks will be placed in strategic locations, visible from all angles.

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- **Mud Program:**
  The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

- **Metallurgy:**
  All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

- **Communication:**
  Communication will be via cell phones and land lines where available.

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Peachtree 24 Fed Com #572H

Emergency Assistance Telephone List

PUBLIC SAFETY:	911 or
Lea County Sheriff's Department	(575) 396-3611
Corey Helton	
Fire Department	
Carlsbad	(575) 885-3125
Artesia	(575) 746-5050
Hospitals	
Carlsbad	(575) 887-4121
Artesia	(575) 748-3333
Hobbs	(575) 392-1979
Dept. of Public Safety/Carlsbad	(575) 748-9718
Highway Department	(575) 885-3281
U.S. Department of Labor	(575) 887-1174
Bureau of Land Management - Hobbs (Lea Co)	(575) 393-3612
PET On Call - Hobbs	(575) 706-2779
Bureau of Land Management - Carlsbad (Eddy Co)	(575) 234-5972
PET On Call - Carlsbad	(575) 706-2779
New Mexico Oil Conservation Division - Artesia	(575) 748-1283
Inspection Group South - Gilbert Gordero	(575) 626-0830
EOG Resources, Inc.	
EOG Midland	(432) 686-3600
Company Drilling Consultants:	
Jett Dueitt	(432) 230-4840
Blake Burney	
Drilling Engineers	
Stephen Davis	(432) 235-9789
Matt Day	(210) 296-4456
Drilling Managers	
Branden Keener	(210) 294-3729
Drilling Superintendents	
Lance Hardy	(432) 215-8152
Ryan Reynolds	(432) 215-5978
Steve Kelly	(210) 416-7894
H&P Drilling	
H&P Drilling	(432) 563-5757
Nabors Drilling	
Nabors Drilling	(432) 363-8180
Patterson UTI	
Patterson UTI	(432) 561-9382
EOG Safety	
Brian Chandler (HSE Manager)	(817) 239-0251

Lea County, NM (NAD 83 NME)

Peachtree 24 Fed Com #572H

Plan #0.1 RT

Azimuths to Grid North
True North: -0.42°
Magnetic North: 5.78°

Magnetic Field
Strength: 46891.5nT
Dip Angle: 59.58°
Date: 8/11/2025
Model: IGRF2025

To convert a Magnetic Direction to a Grid Direction, Add 5.78°
To convert a Magnetic Direction to a True Direction, Add 6.20° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #572H

3343.0
kb = 26' @ 3369.0usft

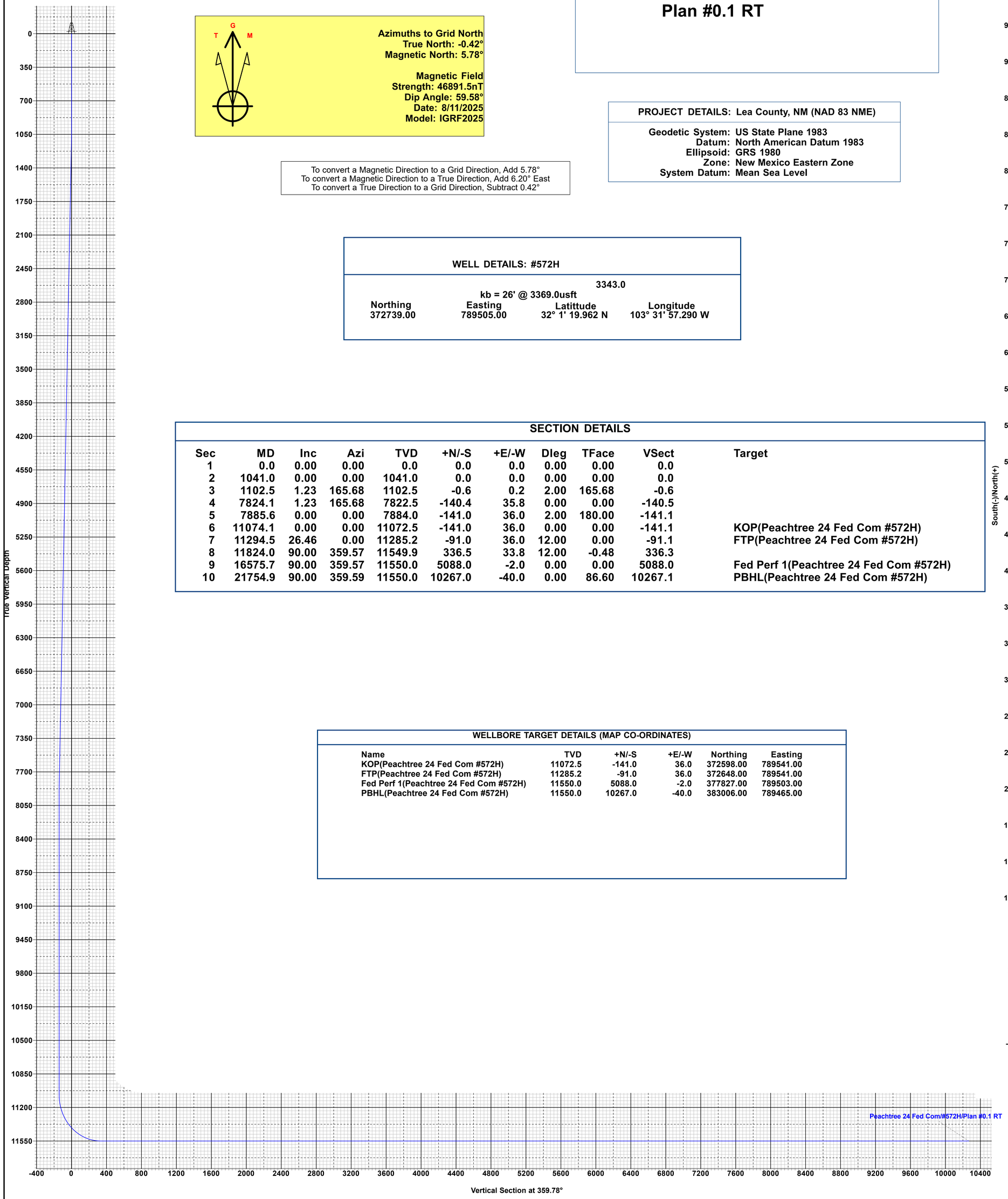
Northing	Easting	Latittude	Longitude
372739.00	789505.00	32° 1' 19.962 N	103° 31' 57.290 W

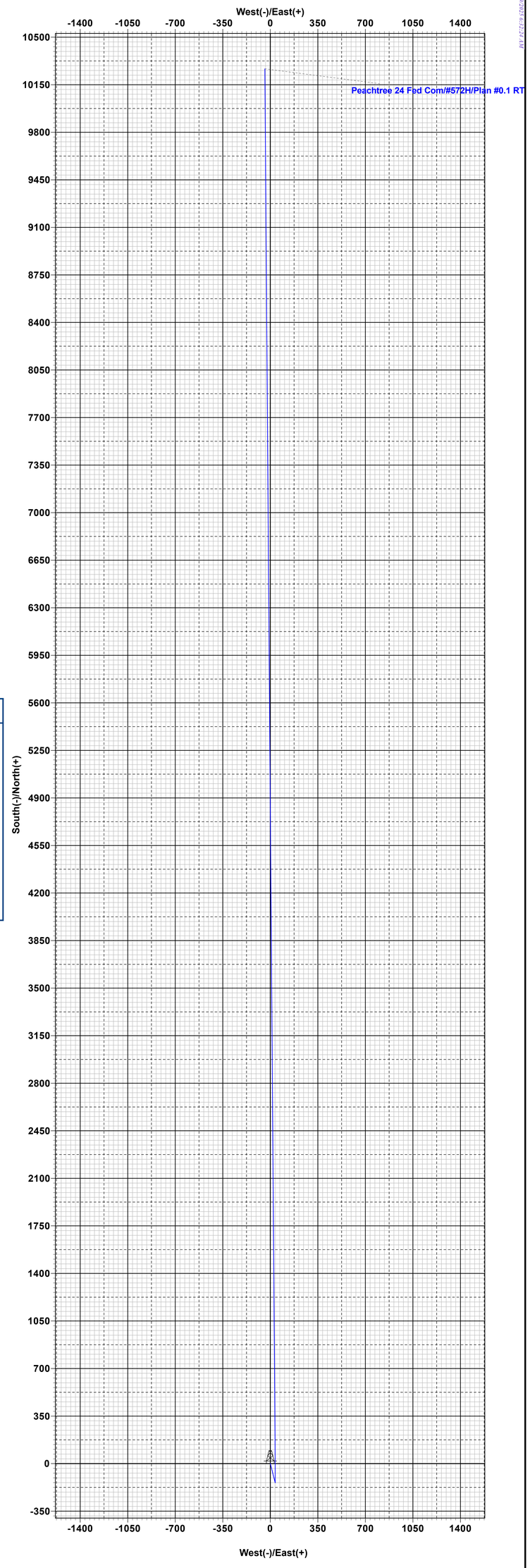
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1041.0	0.00	0.00	1041.0	0.0	0.0	0.00	0.00	0.0	
3	1102.5	1.23	165.68	1102.5	-0.6	0.2	2.00	165.68	-0.6	
4	7824.1	1.23	165.68	7822.5	-140.4	35.8	0.00	0.00	-140.5	
5	7885.6	0.00	0.00	7884.0	-141.0	36.0	2.00	180.00	-141.1	
6	11074.1	0.00	0.00	11072.5	-141.0	36.0	0.00	0.00	-141.1	KOP(Peachtree 24 Fed Com #572H)
7	11294.5	26.46	0.00	11285.2	-91.0	36.0	12.00	0.00	-91.1	FTP(Peachtree 24 Fed Com #572H)
8	11824.0	90.00	359.57	11549.9	336.5	33.8	12.00	-0.48	336.3	
9	16575.7	90.00	359.57	11550.0	5088.0	-2.0	0.00	0.00	5088.0	Fed Perf 1(Peachtree 24 Fed Com #572H)
10	21754.9	90.00	359.59	11550.0	10267.0	-40.0	0.00	86.60	10267.1	PBHL(Peachtree 24 Fed Com #572H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Peachtree 24 Fed Com #572H)	11072.5	-141.0	36.0	372598.00	789541.00
FTP(Peachtree 24 Fed Com #572H)	11285.2	-91.0	36.0	372648.00	789541.00
Fed Perf 1(Peachtree 24 Fed Com #572H)	11550.0	5088.0	-2.0	377827.00	789503.00
PBHL(Peachtree 24 Fed Com #572H)	11550.0	10267.0	-40.0	383006.00	789465.00





Lea County, NM (NAD 83 NME)
Peachtree 24 Fed Com
#572H
OH
Plan #0.1 RT
9:31, August 11 2025

Midland

Lea County, NM (NAD 83 NME)
Peachtree 24 Fed Com
#572H

OH

Plan: Plan #0.1 RT

Standard Planning Report

11 August, 2025

eog resources

Planning Report

Database:	PEDMB	**Local Co-ordinate Reference:**	Well #572H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3369.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3369.0usft
Site:	Peachtree 24 Fed Com	**North Reference:**	Grid
Well:	#572H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

Project Lea County, NM (NAD 83 NME)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Peachtree 24 Fed Com

Site Position:		**Northing:**	372,756.00 usft	**Latitude:**	32° 1' 19.840 N
From:	Map	**Easting:**	793,433.00 usft	**Longitude:**	103° 31' 11.665 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well #572H

Well Position	**+N/-S**	0.0 usft	**Northing:**	372,739.00 usft	**Latitude:**	32° 1' 19.962 N
	+E/-W	0.0 usft	**Easting:**	789,505.00 usft	**Longitude:**	103° 31' 57.290 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,343.0 usft
Grid Convergence:		0.42 °				

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2025	8/11/2025	6.20	59.58	46,891.51627240

Design Plan #0.1 RT

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	359.78

Plan Survey Tool Program **Date** 8/11/2025

	Depth From (usft)	**Depth To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Remarks**
1	0.0	21,754.9	Plan #0.1 RT (OH)	EOG MWD+IFR1 MWD + IFR1	

eog resources

Planning Report

Database:	PEDMB	**Local Co-ordinate Reference:**	Well #572H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3369.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3369.0usft
Site:	Peachtree 24 Fed Com	**North Reference:**	Grid
Well:	#572H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

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	
1,041.0	0.00	0.00	1,041.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,102.5	1.23	165.68	1,102.5	-0.6	0.2	2.00	2.00	0.00	165.68	
7,824.1	1.23	165.68	7,822.5	-140.4	35.8	0.00	0.00	0.00	0.00	
7,885.6	0.00	0.00	7,884.0	-141.0	36.0	2.00	-2.00	0.00	180.00	
11,074.1	0.00	0.00	11,072.5	-141.0	36.0	0.00	0.00	0.00	0.00	KOP(Peachtree 24 Fe
11,294.5	26.46	0.00	11,285.2	-91.0	36.0	12.00	12.00	0.00	0.00	FTP(Peachtree 24 Fe
11,824.0	90.00	359.57	11,549.9	336.5	33.8	12.00	12.00	-0.08	-0.48	
16,575.7	90.00	359.57	11,550.0	5,088.0	-2.0	0.00	0.00	0.00	0.00	Fed Perf 1(Peachtree
21,754.9	90.00	359.59	11,550.0	10,267.0	-40.0	0.00	0.00	0.00	86.60	PBHL(Peachtree 24 F

eog resources

Planning Report

Database:	PEDMB	**Local Co-ordinate Reference:**	Well #572H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3369.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3369.0usft
Site:	Peachtree 24 Fed Com	**North Reference:**	Grid
Well:	#572H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
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)
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
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
800.0	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
1,041.0	0.00	0.00	1,041.0	0.0	0.0	0.0	0.00	0.00	0.00
1,102.5	1.23	165.68	1,102.5	-0.6	0.2	-0.6	2.00	2.00	0.00
1,200.0	1.23	165.68	1,200.0	-2.7	0.7	-2.7	0.00	0.00	0.00
1,300.0	1.23	165.68	1,299.9	-4.7	1.2	-4.7	0.00	0.00	0.00
1,400.0	1.23	165.68	1,399.9	-6.8	1.7	-6.8	0.00	0.00	0.00
1,500.0	1.23	165.68	1,499.9	-8.9	2.3	-8.9	0.00	0.00	0.00
1,600.0	1.23	165.68	1,599.9	-11.0	2.8	-11.0	0.00	0.00	0.00
1,700.0	1.23	165.68	1,699.9	-13.1	3.3	-13.1	0.00	0.00	0.00
1,800.0	1.23	165.68	1,799.8	-15.1	3.9	-15.2	0.00	0.00	0.00
1,900.0	1.23	165.68	1,899.8	-17.2	4.4	-17.2	0.00	0.00	0.00
2,000.0	1.23	165.68	1,999.8	-19.3	4.9	-19.3	0.00	0.00	0.00
2,100.0	1.23	165.68	2,099.8	-21.4	5.5	-21.4	0.00	0.00	0.00
2,200.0	1.23	165.68	2,199.7	-23.5	6.0	-23.5	0.00	0.00	0.00
2,300.0	1.23	165.68	2,299.7	-25.5	6.5	-25.6	0.00	0.00	0.00
2,400.0	1.23	165.68	2,399.7	-27.6	7.0	-27.6	0.00	0.00	0.00
2,500.0	1.23	165.68	2,499.7	-29.7	7.6	-29.7	0.00	0.00	0.00
2,600.0	1.23	165.68	2,599.7	-31.8	8.1	-31.8	0.00	0.00	0.00
2,700.0	1.23	165.68	2,699.6	-33.8	8.6	-33.9	0.00	0.00	0.00
2,800.0	1.23	165.68	2,799.6	-35.9	9.2	-36.0	0.00	0.00	0.00
2,900.0	1.23	165.68	2,899.6	-38.0	9.7	-38.0	0.00	0.00	0.00
3,000.0	1.23	165.68	2,999.6	-40.1	10.2	-40.1	0.00	0.00	0.00
3,100.0	1.23	165.68	3,099.5	-42.2	10.8	-42.2	0.00	0.00	0.00
3,200.0	1.23	165.68	3,199.5	-44.2	11.3	-44.3	0.00	0.00	0.00
3,300.0	1.23	165.68	3,299.5	-46.3	11.8	-46.4	0.00	0.00	0.00
3,400.0	1.23	165.68	3,399.5	-48.4	12.4	-48.4	0.00	0.00	0.00
3,500.0	1.23	165.68	3,499.4	-50.5	12.9	-50.5	0.00	0.00	0.00
3,600.0	1.23	165.68	3,599.4	-52.6	13.4	-52.6	0.00	0.00	0.00
3,700.0	1.23	165.68	3,699.4	-54.6	13.9	-54.7	0.00	0.00	0.00
3,800.0	1.23	165.68	3,799.4	-56.7	14.5	-56.8	0.00	0.00	0.00
3,900.0	1.23	165.68	3,899.4	-58.8	15.0	-58.8	0.00	0.00	0.00
4,000.0	1.23	165.68	3,999.3	-60.9	15.5	-60.9	0.00	0.00	0.00
4,100.0	1.23	165.68	4,099.3	-62.9	16.1	-63.0	0.00	0.00	0.00
4,200.0	1.23	165.68	4,199.3	-65.0	16.6	-65.1	0.00	0.00	0.00
4,300.0	1.23	165.68	4,299.3	-67.1	17.1	-67.2	0.00	0.00	0.00
4,400.0	1.23	165.68	4,399.2	-69.2	17.7	-69.3	0.00	0.00	0.00
4,500.0	1.23	165.68	4,499.2	-71.3	18.2	-71.3	0.00	0.00	0.00
4,600.0	1.23	165.68	4,599.2	-73.3	18.7	-73.4	0.00	0.00	0.00
4,700.0	1.23	165.68	4,699.2	-75.4	19.3	-75.5	0.00	0.00	0.00
4,800.0	1.23	165.68	4,799.1	-77.5	19.8	-77.6	0.00	0.00	0.00
4,900.0	1.23	165.68	4,899.1	-79.6	20.3	-79.7	0.00	0.00	0.00
5,000.0	1.23	165.68	4,999.1	-81.7	20.8	-81.7	0.00	0.00	0.00
5,100.0	1.23	165.68	5,099.1	-83.7	21.4	-83.8	0.00	0.00	0.00
5,200.0	1.23	165.68	5,199.1	-85.8	21.9	-85.9	0.00	0.00	0.00

eog resources

Planning Report

Database:	PEDMB	**Local Co-ordinate Reference:**	Well #572H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3369.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3369.0usft
Site:	Peachtree 24 Fed Com	**North Reference:**	Grid
Well:	#572H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
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)
5,300.0	1.23	165.68	5,299.0	-87.9	22.4	-88.0	0.00	0.00	0.00
5,400.0	1.23	165.68	5,399.0	-90.0	23.0	-90.1	0.00	0.00	0.00
5,500.0	1.23	165.68	5,499.0	-92.1	23.5	-92.1	0.00	0.00	0.00
5,600.0	1.23	165.68	5,599.0	-94.1	24.0	-94.2	0.00	0.00	0.00
5,700.0	1.23	165.68	5,698.9	-96.2	24.6	-96.3	0.00	0.00	0.00
5,800.0	1.23	165.68	5,798.9	-98.3	25.1	-98.4	0.00	0.00	0.00
5,900.0	1.23	165.68	5,898.9	-100.4	25.6	-100.5	0.00	0.00	0.00
6,000.0	1.23	165.68	5,998.9	-102.4	26.2	-102.5	0.00	0.00	0.00
6,100.0	1.23	165.68	6,098.8	-104.5	26.7	-104.6	0.00	0.00	0.00
6,200.0	1.23	165.68	6,198.8	-106.6	27.2	-106.7	0.00	0.00	0.00
6,300.0	1.23	165.68	6,298.8	-108.7	27.7	-108.8	0.00	0.00	0.00
6,400.0	1.23	165.68	6,398.8	-110.8	28.3	-110.9	0.00	0.00	0.00
6,500.0	1.23	165.68	6,498.8	-112.8	28.8	-112.9	0.00	0.00	0.00
6,600.0	1.23	165.68	6,598.7	-114.9	29.3	-115.0	0.00	0.00	0.00
6,700.0	1.23	165.68	6,698.7	-117.0	29.9	-117.1	0.00	0.00	0.00
6,800.0	1.23	165.68	6,798.7	-119.1	30.4	-119.2	0.00	0.00	0.00
6,900.0	1.23	165.68	6,898.7	-121.2	30.9	-121.3	0.00	0.00	0.00
7,000.0	1.23	165.68	6,998.6	-123.2	31.5	-123.4	0.00	0.00	0.00
7,100.0	1.23	165.68	7,098.6	-125.3	32.0	-125.4	0.00	0.00	0.00
7,200.0	1.23	165.68	7,198.6	-127.4	32.5	-127.5	0.00	0.00	0.00
7,300.0	1.23	165.68	7,298.6	-129.5	33.1	-129.6	0.00	0.00	0.00
7,400.0	1.23	165.68	7,398.5	-131.5	33.6	-131.7	0.00	0.00	0.00
7,500.0	1.23	165.68	7,498.5	-133.6	34.1	-133.8	0.00	0.00	0.00
7,600.0	1.23	165.68	7,598.5	-135.7	34.6	-135.8	0.00	0.00	0.00
7,700.0	1.23	165.68	7,698.5	-137.8	35.2	-137.9	0.00	0.00	0.00
7,800.0	1.23	165.68	7,798.5	-139.9	35.7	-140.0	0.00	0.00	0.00
7,824.1	1.23	165.68	7,822.5	-140.4	35.8	-140.5	0.00	0.00	0.00
7,885.6	0.00	0.00	7,884.0	-141.0	36.0	-141.1	2.00	-2.00	0.00
7,900.0	0.00	0.00	7,898.4	-141.0	36.0	-141.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,998.4	-141.0	36.0	-141.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,098.4	-141.0	36.0	-141.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,198.4	-141.0	36.0	-141.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,298.4	-141.0	36.0	-141.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,398.4	-141.0	36.0	-141.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,498.4	-141.0	36.0	-141.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,598.4	-141.0	36.0	-141.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,698.4	-141.0	36.0	-141.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,798.4	-141.0	36.0	-141.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,898.4	-141.0	36.0	-141.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,998.4	-141.0	36.0	-141.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,098.4	-141.0	36.0	-141.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,198.4	-141.0	36.0	-141.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,298.4	-141.0	36.0	-141.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,398.4	-141.0	36.0	-141.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,498.4	-141.0	36.0	-141.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,598.4	-141.0	36.0	-141.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,698.4	-141.0	36.0	-141.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,798.4	-141.0	36.0	-141.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,898.4	-141.0	36.0	-141.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,998.4	-141.0	36.0	-141.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,098.4	-141.0	36.0	-141.1	0.00	0.00	0.00
10,200.0	0.00	0.00	10,198.4	-141.0	36.0	-141.1	0.00	0.00	0.00
10,300.0	0.00	0.00	10,298.4	-141.0	36.0	-141.1	0.00	0.00	0.00
10,400.0	0.00	0.00	10,398.4	-141.0	36.0	-141.1	0.00	0.00	0.00

eog resources

Planning Report

Database:	PEDMB	**Local Co-ordinate Reference:**	Well #572H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3369.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3369.0usft
Site:	Peachtree 24 Fed Com	**North Reference:**	Grid
Well:	#572H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
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)
10,500.0	0.00	0.00	10,498.4	-141.0	36.0	-141.1	0.00	0.00	0.00
10,600.0	0.00	0.00	10,598.4	-141.0	36.0	-141.1	0.00	0.00	0.00
10,700.0	0.00	0.00	10,698.4	-141.0	36.0	-141.1	0.00	0.00	0.00
10,800.0	0.00	0.00	10,798.4	-141.0	36.0	-141.1	0.00	0.00	0.00
10,900.0	0.00	0.00	10,898.4	-141.0	36.0	-141.1	0.00	0.00	0.00
11,000.0	0.00	0.00	10,998.4	-141.0	36.0	-141.1	0.00	0.00	0.00
11,074.1	0.00	0.00	11,072.5	-141.0	36.0	-141.1	0.00	0.00	0.00
11,100.0	3.11	0.00	11,098.4	-140.3	36.0	-140.4	12.00	12.00	0.00
11,125.0	6.11	0.00	11,123.3	-138.3	36.0	-138.4	12.00	12.00	0.00
11,150.0	9.11	0.00	11,148.1	-135.0	36.0	-135.1	12.00	12.00	0.00
11,175.0	12.11	0.00	11,172.7	-130.4	36.0	-130.5	12.00	12.00	0.00
11,200.0	15.11	0.00	11,197.0	-124.5	36.0	-124.6	12.00	12.00	0.00
11,225.0	18.12	0.00	11,220.9	-117.3	36.0	-117.5	12.00	12.00	0.00
11,250.0	21.12	0.00	11,244.5	-108.9	36.0	-109.1	12.00	12.00	0.00
11,275.0	24.12	0.00	11,267.6	-99.3	36.0	-99.5	12.00	12.00	0.00
11,294.5	26.46	0.00	11,285.2	-91.0	36.0	-91.1	12.00	12.00	0.00
11,300.0	27.12	359.99	11,290.1	-88.5	36.0	-88.7	12.00	12.00	-0.22
11,325.0	30.12	359.94	11,312.0	-76.6	36.0	-76.7	12.00	12.00	-0.20
11,350.0	33.12	359.90	11,333.3	-63.4	36.0	-63.6	12.00	12.00	-0.16
11,375.0	36.12	359.86	11,353.9	-49.2	35.9	-49.4	12.00	12.00	-0.14
11,400.0	39.12	359.83	11,373.7	-34.0	35.9	-34.1	12.00	12.00	-0.12
11,425.0	42.12	359.81	11,392.7	-17.7	35.9	-17.9	12.00	12.00	-0.11
11,450.0	45.12	359.78	11,410.8	-0.5	35.8	-0.6	12.00	12.00	-0.09
11,475.0	48.12	359.76	11,427.9	17.7	35.7	17.6	12.00	12.00	-0.09
11,500.0	51.12	359.74	11,444.1	36.7	35.6	36.6	12.00	12.00	-0.08
11,525.0	54.12	359.72	11,459.3	56.6	35.5	56.5	12.00	12.00	-0.07
11,550.0	57.12	359.71	11,473.4	77.2	35.4	77.1	12.00	12.00	-0.07
11,575.0	60.12	359.69	11,486.5	98.6	35.3	98.4	12.00	12.00	-0.06
11,600.0	63.12	359.68	11,498.3	120.6	35.2	120.4	12.00	12.00	-0.06
11,625.0	66.12	359.66	11,509.1	143.1	35.1	143.0	12.00	12.00	-0.06
11,650.0	69.12	359.65	11,518.6	166.3	34.9	166.1	12.00	12.00	-0.05
11,675.0	72.12	359.64	11,526.9	189.8	34.8	189.7	12.00	12.00	-0.05
11,700.0	75.12	359.63	11,533.9	213.8	34.6	213.7	12.00	12.00	-0.05
11,725.0	78.12	359.61	11,539.7	238.1	34.5	238.0	12.00	12.00	-0.05
11,750.0	81.12	359.60	11,544.2	262.7	34.3	262.6	12.00	12.00	-0.05
11,775.0	84.12	359.59	11,547.4	287.5	34.1	287.4	12.00	12.00	-0.05
11,800.0	87.12	359.58	11,549.3	312.4	34.0	312.3	12.00	12.00	-0.05
11,824.0	90.00	359.57	11,549.9	336.5	33.8	336.3	12.00	12.00	-0.04
11,900.0	90.00	359.57	11,549.9	412.4	33.2	412.3	0.00	0.00	0.00
12,000.0	90.00	359.57	11,549.9	512.4	32.4	512.3	0.00	0.00	0.00
12,100.0	90.00	359.57	11,549.9	612.4	31.7	612.3	0.00	0.00	0.00
12,200.0	90.00	359.57	11,549.9	712.4	30.9	712.3	0.00	0.00	0.00
12,300.0	90.00	359.57	11,550.0	812.4	30.2	812.3	0.00	0.00	0.00
12,400.0	90.00	359.57	11,550.0	912.4	29.4	912.3	0.00	0.00	0.00
12,500.0	90.00	359.57	11,550.0	1,012.4	28.7	1,012.3	0.00	0.00	0.00
12,600.0	90.00	359.57	11,550.0	1,112.4	27.9	1,112.3	0.00	0.00	0.00
12,700.0	90.00	359.57	11,550.0	1,212.4	27.2	1,212.3	0.00	0.00	0.00
12,800.0	90.00	359.57	11,550.0	1,312.4	26.4	1,312.3	0.00	0.00	0.00
12,900.0	90.00	359.57	11,550.0	1,412.4	25.7	1,412.3	0.00	0.00	0.00
13,000.0	90.00	359.57	11,550.0	1,512.4	24.9	1,512.3	0.00	0.00	0.00
13,100.0	90.00	359.57	11,550.0	1,612.4	24.2	1,612.3	0.00	0.00	0.00
13,200.0	90.00	359.57	11,550.0	1,712.4	23.4	1,712.3	0.00	0.00	0.00
13,300.0	90.00	359.57	11,550.0	1,812.4	22.7	1,812.3	0.00	0.00	0.00
13,400.0	90.00	359.57	11,550.0	1,912.4	21.9	1,912.3	0.00	0.00	0.00

eog resources

Planning Report

Database:	PEDMB	**Local Co-ordinate Reference:**	Well #572H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3369.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3369.0usft
Site:	Peachtree 24 Fed Com	**North Reference:**	Grid
Well:	#572H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
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)
13,500.0	90.00	359.57	11,550.0	2,012.4	21.2	2,012.3	0.00	0.00	0.00
13,600.0	90.00	359.57	11,550.0	2,112.4	20.4	2,112.3	0.00	0.00	0.00
13,700.0	90.00	359.57	11,550.0	2,212.4	19.7	2,212.3	0.00	0.00	0.00
13,800.0	90.00	359.57	11,550.0	2,312.4	18.9	2,312.3	0.00	0.00	0.00
13,900.0	90.00	359.57	11,550.0	2,412.4	18.1	2,412.3	0.00	0.00	0.00
14,000.0	90.00	359.57	11,550.0	2,512.4	17.4	2,512.3	0.00	0.00	0.00
14,100.0	90.00	359.57	11,550.0	2,612.4	16.6	2,612.3	0.00	0.00	0.00
14,200.0	90.00	359.57	11,550.0	2,712.4	15.9	2,712.3	0.00	0.00	0.00
14,300.0	90.00	359.57	11,550.0	2,812.3	15.1	2,812.3	0.00	0.00	0.00
14,400.0	90.00	359.57	11,550.0	2,912.3	14.4	2,912.3	0.00	0.00	0.00
14,500.0	90.00	359.57	11,550.0	3,012.3	13.6	3,012.3	0.00	0.00	0.00
14,600.0	90.00	359.57	11,550.0	3,112.3	12.9	3,112.3	0.00	0.00	0.00
14,700.0	90.00	359.57	11,550.0	3,212.3	12.1	3,212.3	0.00	0.00	0.00
14,800.0	90.00	359.57	11,550.0	3,312.3	11.4	3,312.3	0.00	0.00	0.00
14,900.0	90.00	359.57	11,550.0	3,412.3	10.6	3,412.3	0.00	0.00	0.00
15,000.0	90.00	359.57	11,550.0	3,512.3	9.9	3,512.3	0.00	0.00	0.00
15,100.0	90.00	359.57	11,550.0	3,612.3	9.1	3,612.3	0.00	0.00	0.00
15,200.0	90.00	359.57	11,550.0	3,712.3	8.4	3,712.3	0.00	0.00	0.00
15,300.0	90.00	359.57	11,550.0	3,812.3	7.6	3,812.3	0.00	0.00	0.00
15,400.0	90.00	359.57	11,550.0	3,912.3	6.9	3,912.3	0.00	0.00	0.00
15,500.0	90.00	359.57	11,550.0	4,012.3	6.1	4,012.3	0.00	0.00	0.00
15,600.0	90.00	359.57	11,550.0	4,112.3	5.3	4,112.3	0.00	0.00	0.00
15,700.0	90.00	359.57	11,550.0	4,212.3	4.6	4,212.3	0.00	0.00	0.00
15,800.0	90.00	359.57	11,550.0	4,312.3	3.8	4,312.3	0.00	0.00	0.00
15,900.0	90.00	359.57	11,550.0	4,412.3	3.1	4,412.3	0.00	0.00	0.00
16,000.0	90.00	359.57	11,550.0	4,512.3	2.3	4,512.3	0.00	0.00	0.00
16,100.0	90.00	359.57	11,550.0	4,612.3	1.6	4,612.3	0.00	0.00	0.00
16,200.0	90.00	359.57	11,550.0	4,712.3	0.8	4,712.3	0.00	0.00	0.00
16,300.0	90.00	359.57	11,550.0	4,812.3	0.1	4,812.3	0.00	0.00	0.00
16,400.0	90.00	359.57	11,550.0	4,912.3	-0.7	4,912.3	0.00	0.00	0.00
16,500.0	90.00	359.57	11,550.0	5,012.3	-1.4	5,012.3	0.00	0.00	0.00
16,575.7	90.00	359.57	11,550.0	5,088.0	-2.0	5,088.0	0.00	0.00	0.00
16,600.0	90.00	359.57	11,550.0	5,112.3	-2.2	5,112.3	0.00	0.00	0.00
16,700.0	90.00	359.57	11,550.0	5,212.3	-2.9	5,212.3	0.00	0.00	0.00
16,800.0	90.00	359.57	11,550.0	5,312.3	-3.7	5,312.3	0.00	0.00	0.00
16,900.0	90.00	359.57	11,550.0	5,412.3	-4.4	5,412.3	0.00	0.00	0.00
17,000.0	90.00	359.57	11,550.0	5,512.3	-5.2	5,512.3	0.00	0.00	0.00
17,100.0	90.00	359.57	11,550.0	5,612.3	-5.9	5,612.2	0.00	0.00	0.00
17,200.0	90.00	359.57	11,550.0	5,712.3	-6.7	5,712.2	0.00	0.00	0.00
17,300.0	90.00	359.57	11,550.0	5,812.3	-7.4	5,812.2	0.00	0.00	0.00
17,400.0	90.00	359.57	11,550.0	5,912.3	-8.2	5,912.2	0.00	0.00	0.00
17,500.0	90.00	359.57	11,550.0	6,012.3	-8.9	6,012.2	0.00	0.00	0.00
17,600.0	90.00	359.57	11,550.0	6,112.3	-9.7	6,112.2	0.00	0.00	0.00
17,700.0	90.00	359.57	11,550.0	6,212.3	-10.4	6,212.2	0.00	0.00	0.00
17,800.0	90.00	359.57	11,550.0	6,312.2	-11.2	6,312.2	0.00	0.00	0.00
17,900.0	90.00	359.57	11,550.0	6,412.2	-11.9	6,412.2	0.00	0.00	0.00
18,000.0	90.00	359.57	11,550.0	6,512.2	-12.6	6,512.2	0.00	0.00	0.00
18,100.0	90.00	359.58	11,550.0	6,612.2	-13.4	6,612.2	0.00	0.00	0.00
18,200.0	90.00	359.58	11,550.0	6,712.2	-14.1	6,712.2	0.00	0.00	0.00
18,300.0	90.00	359.58	11,550.0	6,812.2	-14.9	6,812.2	0.00	0.00	0.00
18,400.0	90.00	359.58	11,550.0	6,912.2	-15.6	6,912.2	0.00	0.00	0.00
18,500.0	90.00	359.58	11,550.0	7,012.2	-16.4	7,012.2	0.00	0.00	0.00
18,600.0	90.00	359.58	11,550.0	7,112.2	-17.1	7,112.2	0.00	0.00	0.00
18,700.0	90.00	359.58	11,550.0	7,212.2	-17.8	7,212.2	0.00	0.00	0.00

eog resources

Planning Report

Database:	PEDMB	**Local Co-ordinate Reference:**	Well #572H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3369.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3369.0usft
Site:	Peachtree 24 Fed Com	**North Reference:**	Grid
Well:	#572H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
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)
18,800.0	90.00	359.58	11,550.0	7,312.2	-18.6	7,312.2	0.00	0.00	0.00
18,900.0	90.00	359.58	11,550.0	7,412.2	-19.3	7,412.2	0.00	0.00	0.00
19,000.0	90.00	359.58	11,550.0	7,512.2	-20.0	7,512.2	0.00	0.00	0.00
19,100.0	90.00	359.58	11,550.0	7,612.2	-20.8	7,612.2	0.00	0.00	0.00
19,200.0	90.00	359.58	11,550.0	7,712.2	-21.5	7,712.2	0.00	0.00	0.00
19,300.0	90.00	359.58	11,550.0	7,812.2	-22.2	7,812.2	0.00	0.00	0.00
19,400.0	90.00	359.58	11,550.0	7,912.2	-23.0	7,912.2	0.00	0.00	0.00
19,500.0	90.00	359.58	11,550.0	8,012.2	-23.7	8,012.2	0.00	0.00	0.00
19,600.0	90.00	359.58	11,550.0	8,112.2	-24.4	8,112.2	0.00	0.00	0.00
19,700.0	90.00	359.58	11,550.0	8,212.2	-25.2	8,212.2	0.00	0.00	0.00
19,800.0	90.00	359.58	11,550.0	8,312.2	-25.9	8,312.2	0.00	0.00	0.00
19,900.0	90.00	359.58	11,550.0	8,412.2	-26.6	8,412.2	0.00	0.00	0.00
20,000.0	90.00	359.58	11,550.0	8,512.2	-27.3	8,512.2	0.00	0.00	0.00
20,100.0	90.00	359.58	11,550.0	8,612.2	-28.1	8,612.2	0.00	0.00	0.00
20,200.0	90.00	359.58	11,550.0	8,712.2	-28.8	8,712.2	0.00	0.00	0.00
20,300.0	90.00	359.58	11,550.0	8,812.2	-29.5	8,812.2	0.00	0.00	0.00
20,400.0	90.00	359.58	11,550.0	8,912.2	-30.3	8,912.2	0.00	0.00	0.00
20,500.0	90.00	359.59	11,550.0	9,012.2	-31.0	9,012.2	0.00	0.00	0.00
20,600.0	90.00	359.59	11,550.0	9,112.2	-31.7	9,112.2	0.00	0.00	0.00
20,700.0	90.00	359.59	11,550.0	9,212.2	-32.4	9,212.2	0.00	0.00	0.00
20,800.0	90.00	359.59	11,550.0	9,312.2	-33.1	9,312.2	0.00	0.00	0.00
20,900.0	90.00	359.59	11,550.0	9,412.2	-33.9	9,412.2	0.00	0.00	0.00
21,000.0	90.00	359.59	11,550.0	9,512.2	-34.6	9,512.2	0.00	0.00	0.00
21,100.0	90.00	359.59	11,550.0	9,612.2	-35.3	9,612.2	0.00	0.00	0.00
21,200.0	90.00	359.59	11,550.0	9,712.2	-36.0	9,712.2	0.00	0.00	0.00
21,300.0	90.00	359.59	11,550.0	9,812.2	-36.7	9,812.2	0.00	0.00	0.00
21,400.0	90.00	359.59	11,550.0	9,912.2	-37.5	9,912.2	0.00	0.00	0.00
21,500.0	90.00	359.59	11,550.0	10,012.2	-38.2	10,012.2	0.00	0.00	0.00
21,600.0	90.00	359.59	11,550.0	10,112.1	-38.9	10,112.2	0.00	0.00	0.00
21,700.0	90.00	359.59	11,550.0	10,212.1	-39.6	10,212.2	0.00	0.00	0.00
21,754.9	90.00	359.59	11,550.0	10,267.0	-40.0	10,267.1	0.00	0.00	0.00

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(Peachtree 24 Fed - plan hits target center - Point	0.00	0.00	11,072.5	-141.0	36.0	372,598.00	789,541.00	32° 1' 18.564 N	103° 31' 56.884 W
FTP(Peachtree 24 Fed (- plan hits target center - Point	0.00	0.00	11,285.2	-91.0	36.0	372,648.00	789,541.00	32° 1' 19.059 N	103° 31' 56.880 W
PBHL(Peachtree 24 Fed - plan hits target center - Point	0.00	0.00	11,550.0	10,267.0	-40.0	383,006.00	789,465.00	32° 3' 1.561 N	103° 31' 56.870 W
Fed Perf 1(Peachtree 24 - plan hits target center - Point	0.00	0.00	11,550.0	5,088.0	-2.0	377,827.00	789,503.00	32° 2' 10.310 N	103° 31' 56.875 W

BLM: Waste Management Plan

Lea County

43 CFR 3162.3-1(j)

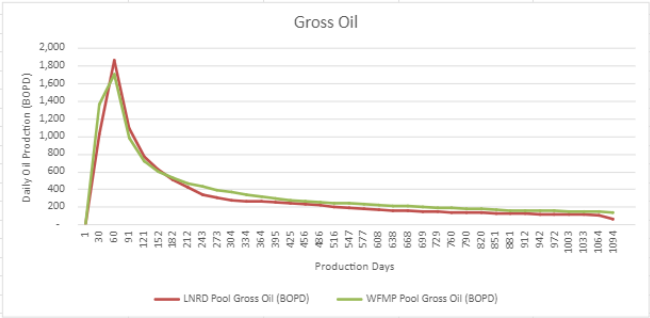
(1) initial oil production estimates and decline,

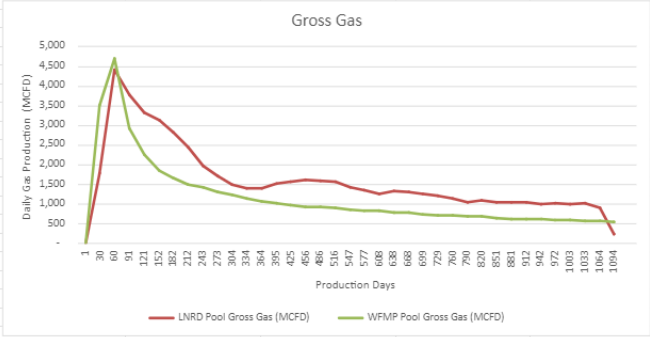
(2) initial gas production estimates and decline

The charts below illustrate the requested anticipated production decline over the first three years of gas and oil production.

Production Days	LNRD Pool Gross Oil (BOPD)	LNRD Pool Gross Gas (MCFD)	WFMP Pool Gross Oil (BOPD)	WFMP Pool Gross Gas (MCFD)
1	-	-	-	-
30	1,032	1,774	1,372	3,520
60	1,868	4,422	1,711	4,696
91	1,088	3,766	992	2,915
121	780	3,334	724	2,252
152	626	3,132	609	1,861
182	511	2,819	527	1,663
212	429	2,451	472	1,509
243	344	1,967	437	1,416
273	306	1,722	398	1,317
304	278	1,497	371	1,226
334	269	1,403	342	1,142
364	265	1,403	319	1,078
395	258	1,517	299	1,020
425	246	1,559	278	967
456	234	1,621	266	937
486	220	1,590	258	932
516	205	1,575	249	899
547	191	1,418	241	869
577	181	1,352	231	834
608	171	1,272	229	834
638	165	1,323	214	791
668	161	1,303	208	775
699	155	1,265	200	745
729	148	1,209	194	725
760	142	1,145	187	708
790	134	1,048	181	689
820	137	1,094	180	683
851	133	1,036	168	647
881	131	1,054	165	631
912	126	1,047	163	623
942	122	1,005	160	615
972	118	1,018	155	601
1003	115	1,008	153	593
1033	113	1,015	148	582
1064	105	894	144	582
1094	67	240	141	557

Lea County Production Data	Initial Oil Production Rate (BOPD)	3 Year Oil Production Decline (BOPD)	Initial Gas Production Rate (MCFD)	3 Year Gas Production Decline (MCFD)
LNRD Pool	1,868	1,801	4,422	4,182
WFMP Pool	1,711	1,570	4,696	4,139





(3) certification that the operator has an executed gas sales contract to sell 100 percent of the produced oil-well gas

In accordance with the requirements set forth in 43 CFR subpart 3178, we hereby certify that we have entered into sales contracts to sell 100% of the produced oil-well gas, less the gas anticipated for use on-lease pursuant to 43 CFR Subpart 3178.

(4) any other information demonstrating the operator's plans to avoid the waste of gas.

In an effort to avoid the waste of gas production, EOG Resources utilizes the following equipment/procedures as part of its facilities and operations:

- Instrument Air Compressors
- Wellhead Autochokes

- iSense Continuous Leak Detection
- Tank Vapor Capture
- Audio, Visual, & Olfactory (AVO) Inspections
- Optical Gas Imaging (OGI) Inspections
- High- & Low-Pressure Gas Capture Tracking
- Vapor Recovery Unit Monitoring

eog resources

EOG Batch Casing

Pad Name: Peachtree 24 Fed Com SHALLOW Permits
SHL: Section 25, Township 26-S, Range 33-E, LEA County, NM

EOG requests for the below wells to be approved for all designs listed in the Blanket Casing Design ('EOG BLM Variance 5a - Alternate Shallow Casing Designs.pdf' OR 'EOG BLM Variance 5b - Alternate Deep Casing Designs.pdf') document. The MDs and TVDs for all intervals are within the boundary conditions. The max inclination and DLS are also within the boundary conditions. The directional plans for the wells are attached separately.

Well Name	API #	Surface		Intermediate		Production	
		MD	TVD	MD	TVD	MD	TVD
Peachtree 24 Fed Com #107H	30-025-*****	941	941	5,358	5,320	19,881	9,640
Peachtree 24 Fed Com #108H	30-025-*****	941	941	5,405	5,320	19,926	9,640
Peachtree 24 Fed Com #206H	30-025-*****	941	941	5,339	5,320	20,302	10,080
Peachtree 24 Fed Com #207H	30-025-*****	941	941	5,404	5,320	20,365	10,080
Peachtree 24 Fed Com #208H	30-025-*****	941	941	5,336	5,320	20,301	10,080
Peachtree 24 Fed Com #507H	30-025-*****	941	941	5,341	5,320	21,290	11,066
Peachtree 24 Fed Com #508H	30-025-*****	941	941	5,403	5,320	21,350	11,066
Peachtree 24 Fed Com #571H	30-025-*****	941	941	5,327	5,320	21,760	11,550
Peachtree 24 Fed Com #572H	30-025-*****	941	941	5,322	5,320	21,755	11,550
Peachtree 24 Fed Com #573H	30-025-*****	941	941	5,330	5,320	21,764	11,550
Peachtree 24 Fed Com #574H	30-025-*****	941	941	5,352	5,320	21,786	11,550
Peachtree 24 Fed Com #581H	30-025-*****	941	941	5,359	5,320	22,217	11,975
Peachtree 24 Fed Com #591H	30-025-*****	941	941	5,446	5,320	21,873	11,550
Peachtree 24 Fed Com #592H	30-025-*****	941	941	5,393	5,320	21,824	11,550
Peachtree 24 Fed Com #593H	30-025-*****	941	941	5,356	5,320	22,124	11,884
Peachtree 24 Fed Com #594H	30-025-*****	941	941	5,334	5,320	22,102	11,884

eog resources

EOG Batch Casing

GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	839'
Tamarisk Anhydrite	916'
Top of Salt	1,193'
Base of Salt	5,034'
Lamar	5,270'
Bell Canyon	5,293'
Cherry Canyon	6,360'
Brushy Canyon	7,884'
Bone Spring Lime	9,517'
Leonard (Avalon) Shale	9,540'
1st Bone Spring Sand	10,454'
2nd Bone Spring Shale	10,675'
2nd Bone Spring Sand	10,957'
3rd Bone Spring Carb	11,370'
3rd Bone Spring Sand	12,098'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

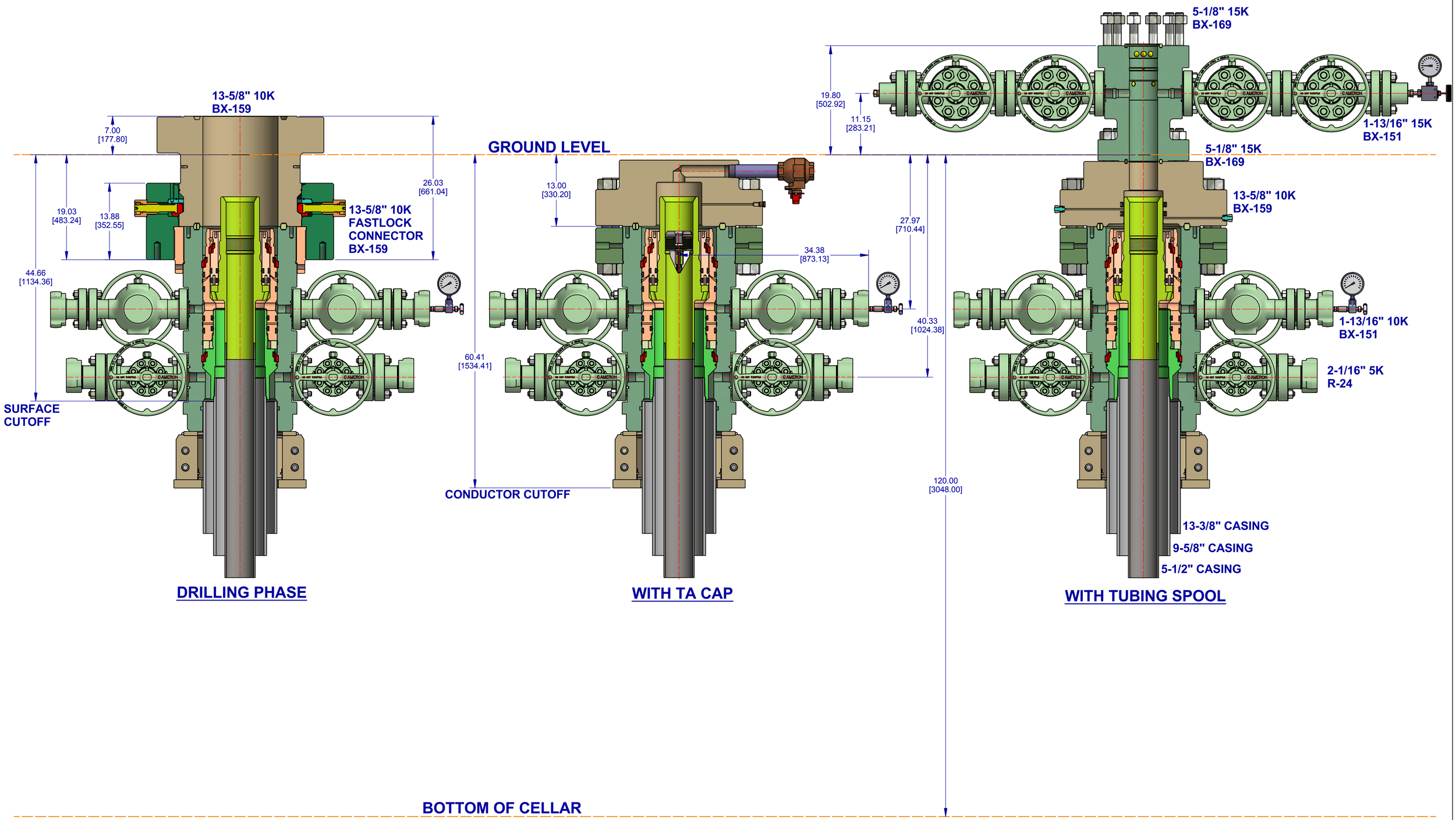
Upper Permian Sands	0- 400’ Fresh Water
Lamar	5,270' Oil
Cherry Canyon	6,360' Oil
Brushy Canyon	7,884' Oil
Bone Spring Lime	9,517' Oil
Leonard (Avalon) Shale	9,540' Oil
1st Bone Spring Sand	10,454' Oil
2nd Bone Spring Shale	10,675' Oil
2nd Bone Spring Sand	10,957' Oil

EOG Batch Casing

Variances

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

- EOG BLM Variance 2a - Intermediate Bradenhead Cement
- EOG BLM Variance 3d - Production Offline Cement
- EOG BLM Variance 3e - BOP Break-test and Offline Surface and Intermediate Cement
- EOG BLM Variance 4a - Salt Section Annular Clearance
- EOG BLM Variance 5a - Alternate Shallow Casing Designs



CONFIDENTIAL

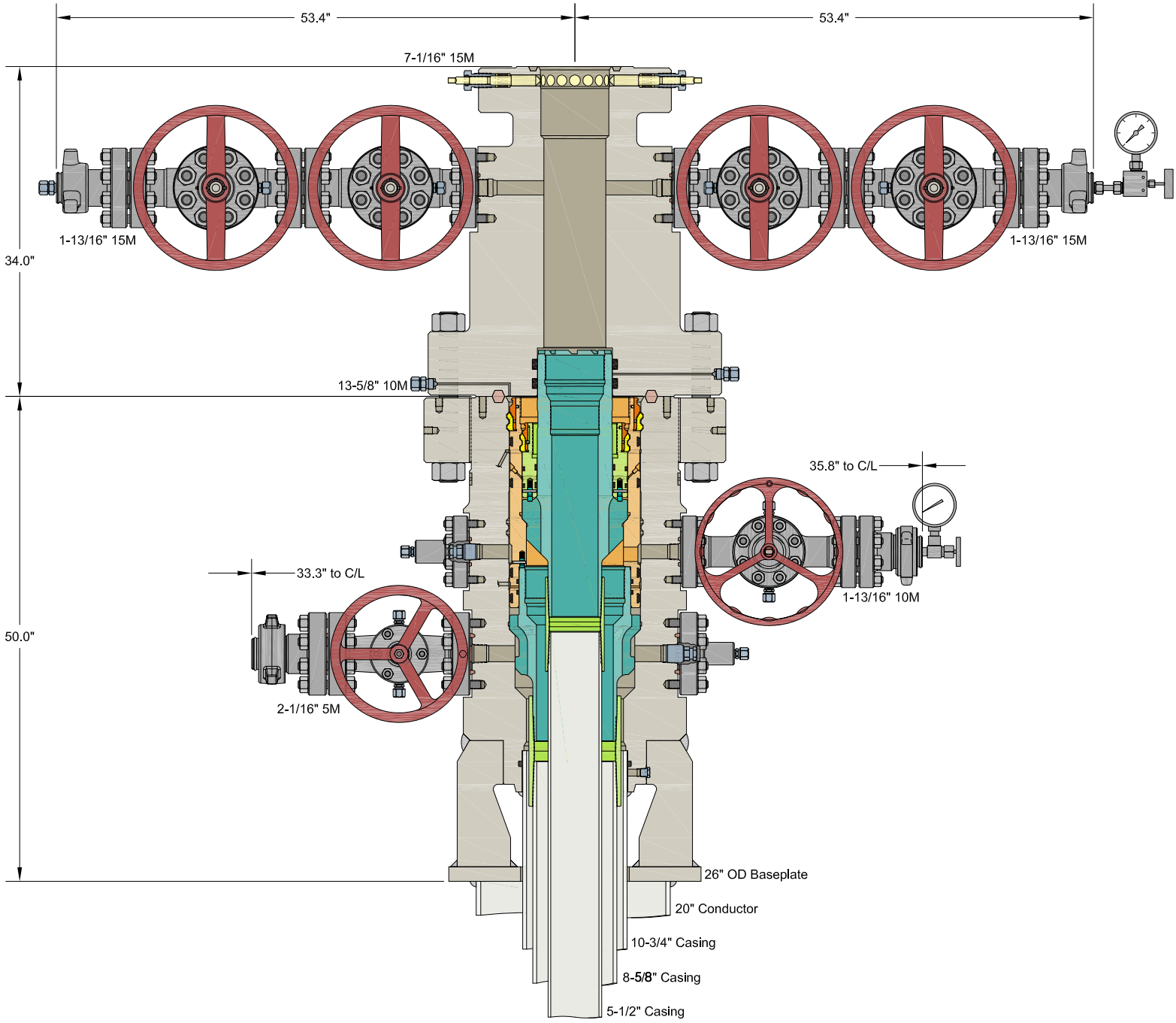
THIRD ANGLE	DESIGNED IN INCHES	MACHINING TOLERANCES UNLESS OTHERWISE SPECIFIED	SURFACE TREATMENT: DO NOT SCALE
	DIMENSIONAL UNITS: INCHES [MILLIMETERS]	.X [0.] ± = [] ; ANGLES ± °	DRAWN BY: KEN REED — DATE: 6 Nov 18
MACHINED FILLET RADII .015-.050 [0.38-1.27]. BREAK ALL SHARP EDGES .01-.03 [0.2-0.8] RADII OR 45°. SURFACE FINISH IN MICRO (µ) INCHES (Ra). INTERPRET DRAWING PER ASME Y14.5, ASME Y14.36, AND AWS A2.4 STANDARDS. SEE B/M FOR MATERIAL AND SPECIAL REQUIREMENTS. ITEM NUMBERS NOT APPEARING ON B/M DO NOT APPLY.		.XX [0.X] ± = []	MATERIAL & HEAT TREAT — CHECKED BY: PA — DATE: 6 Nov 18
		.XXX [0.XX] ± = [] ; √RA ON ALL MACHINED SURFACES	APPROVED BY: APPROVER NAME — DATE: 6 Nov 18
			ESTIMATED WEIGHT: 8147.2 LBS / 3695.5 KG — INITIAL USE B/M: EWR:650353762

CAMERON — A Schlumberger Company — SURFACE SYSTEMS

EOG RESOURCES, INC
13-5/8" 10K MN-DS WELLHEAD
13-3/8" X 9-5/8" X 5-1/2"

SHEET 1 OF 1 — SD-052491-19-07 — REV. 01

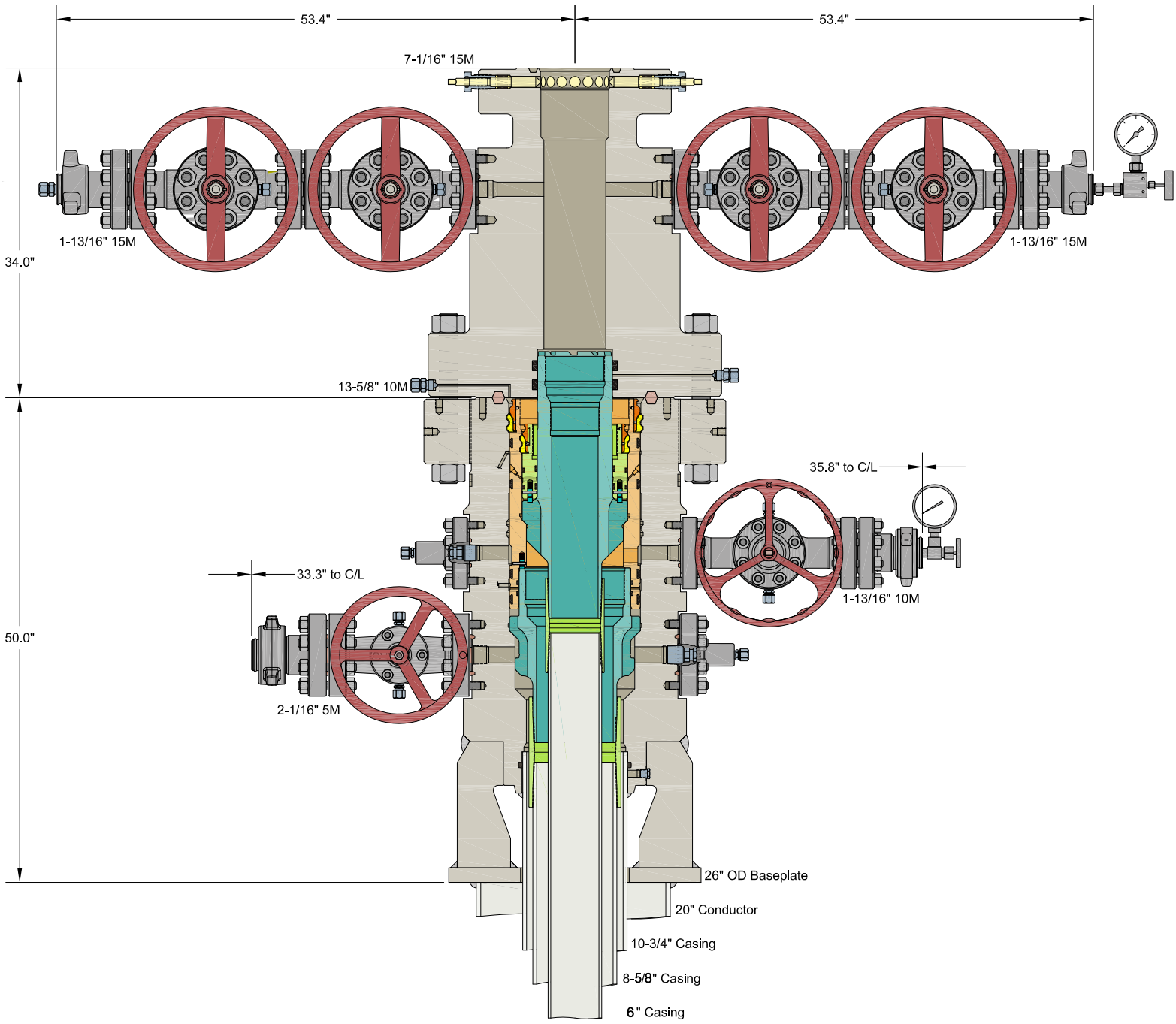
INVENTOR - D



INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	EOG RESOURCES		
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 And 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head	DRAWN	DLE	14APR21
	APPRV		
	DRAWING NO.	SDT-3141	



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ALL DIMENSIONS APPROXIMATE

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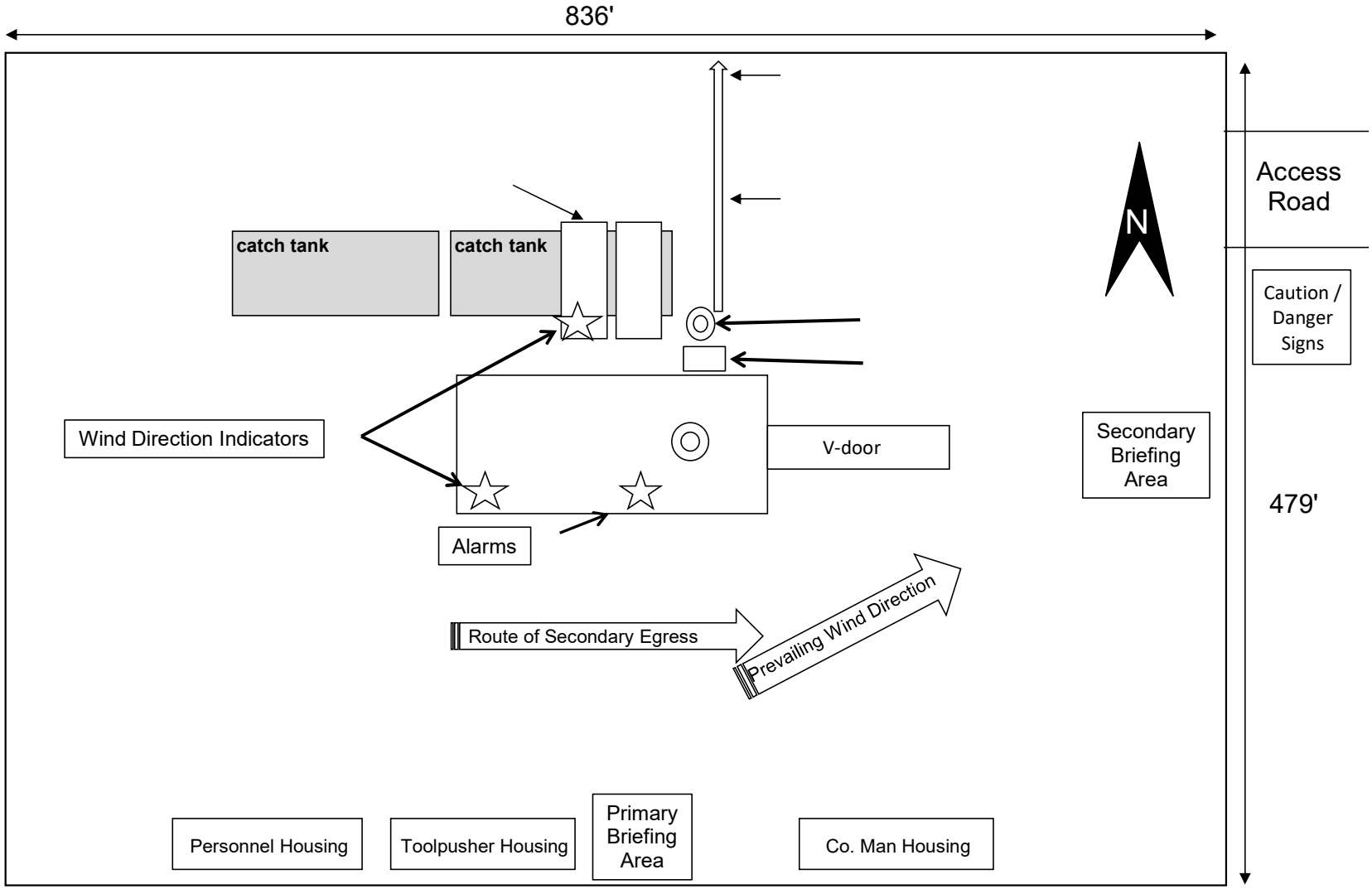
	APPRV		
	DRAWING NO.	SDT-3141	

Exhibit 4

Well Site Diagram

EOG Resources
Peachtree 24 Fed Com #572H



eog resources

Peachtree 24 Fed Com #572H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	839'
Tamarisk Anhydrite	916'
Top of Salt	1,193'
Base of Salt	5,034'
Lamar	5,270'
Bell Canyon	5,293'
Cherry Canyon	6,360'
Brushy Canyon	7,884'
Bone Spring Lime	9,517'
Leonard (Avalon) Shale	9,540'
1st Bone Spring Sand	10,454'
2nd Bone Spring Shale	10,675'
2nd Bone Spring Sand	10,957'
3rd Bone Spring Carb	11,370'
3rd Bone Spring Sand	12,098'
TD	11,550'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400’	Fresh Water
Lamar	5,270'	Oil
Cherry Canyon	6,360'	Oil
Brushy Canyon	7,884'	Oil
Bone Spring Lime	9,517'	Oil
Leonard (Avalon) Shale	9,540'	Oil
1st Bone Spring Sand	10,454'	Oil
2nd Bone Spring Shale	10,675'	Oil
2nd Bone Spring Sand	10,957'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 10-3/4" casing at 941' and circulating cement back to surface.

eog resources

Peachtree 24 Fed Com #572H

4. PRIMARY APD CASING PROGRAM

Hole Size	Interval MD From (ft)	Interval MD To (ft)	Interval TVD From (ft)	Interval TVD To (ft)	Csg OD	Weight	Grade	Conn
13"	0	941	0	941	10-3/4"	40.5#	J-55	STC
9-7/8"	0	5,322	0	5,320	8-5/8"	32#	J-55	BTC-SC
7-7/8"	0	10,974	0	10,973	6"	24.5#	P110-EC	VAM Sprint-TC
6-3/4"	10,974	21,755	10,973	11,550	5-1/2"	20#	P110-EC	VAM Sprint SF

**For highlighted rows above, variance is requested to run entire string of either 6'' or 5-1/2'' casing string above due to availablility.

Hole will be full during casing run for well control and tensile SF factor. Casing will be kept at least half full during run for this design to meet BLM collapse SF requirement. External pressure will be reviewed prior to conducting casing pressure tests to ensure that 70% of the yield is not exceeded.

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 6" and 5-1/2" casings in the 7-7/8" and 6-3/4" hole sizes. An expansion additive will be utilized in the cement slurry for the entire length of the 7-7/8" and 6-3/4" hole intervals 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 Title 43 CFR Part 3170 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.

5. CEMENTING PROGRAM:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
950' 10-3/4"	220	13.5	1.73	Lead: Class C/H + additives (TOC @ Surface)
	120	14.8	1.34	Tail: Class C/H + additives (TOC @ 750')
5,420' 8-5/8"	320	12.7	2.22	Lead: Class C/H + additives + expansive additives (TOC @ Surface)
	150	14.8	1.32	Tail: Class C/H + additives + expansive additives (TOC @ 4257')
21,755' 6"	1000	14.8	1.32	Bradenhead squeeze: Class C/H + additives + expansive additives (TOC @ surface)
	1640	13.2	1.52	Tail: Class C/H + additives (TOC @ 7890')

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Peachtree 24 Fed Com #572H

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

Cement integrity tests will be performed immediately following plug bump.

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.

EOG requests variance from minimum standards to pump a two stage cement job on the 6" and 5-1/2" production casing strings with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,884') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of Class C/H cement + additives (1.32 yld, 14.8 ppg) will be executed as a contingency. Top will be verified by Echo-meter.

Bradenhead will be the primary option for production cementing. EOG also requests to have the conventional option in place to accommodate for logistical or wellbore conditions. The tie back requirements will be met if the cement is pumped conventionally, and cement volumes will be adjusted accordingly. TOC will be verified by CBL.

eog resources

Peachtree 24 Fed Com #572H

6. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

EOG will utilize wing unions on BOPE connections that can be isolated from wellbore pressure through means of a choke. All wing unions will be rated to a pressure that meets or exceeds the pressure rating of the BOPE system.

Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 10,000/ 250 psig and the annular preventer to 5,000/ 250 psig.

Pipe rams and blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

7. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 941'	Fresh - Gel	8.6-8.8	28-34	N/c
941' – 5,320'	Brine	9.8-10.8	28-34	N/c
5,320' – 21,755' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

eog resources

Peachtree 24 Fed Com #572H

8. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

(A) A kelly cock will be kept in the drill string at all times.
(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
(C) H2S monitoring and detection equipment will be utilized from surface casing point to TD.

9. LOGGING, TESTING AND CORING PROGRAM:

(A) Open-hole logs are not planned for this well.
(B) GR–CCL will be run in cased hole during completions phase of operations.

10. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 186 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 5,405 psig and a maximum anticipated surface pressure of 2,864 psig (based on 9.0 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7,884' to intermediate casing point.

11. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and Cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both “A” and “B” sections). The weld will be tested to 1,500 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

eog resources

Peachtree 24 Fed Com #572H

12. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the surface casing, a BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Title 43 CFR Part 3170.

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 10,000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. EOG Resources reserves the option to conduct BOPE testing during wait on cement periods provided a test plug is utilized.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

Casing strings will be tested as per Title 43 CFR Part 3170 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.

13. VARIANCE REQUESTS:

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

- EOG BLM Variance 3e - BOP Break-test and Offline Surface and Intermediate Cement
- EOG BLM Variance 3d - Production Offline Cement
- EOG BLM Variance 4a - Salt Section Annular Clearance
- EOG BLM Variance 5a - Alternate Shallow Casing Designs

eog resources

Peachtree 24 Fed Com #572H

14. 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.

eog resources

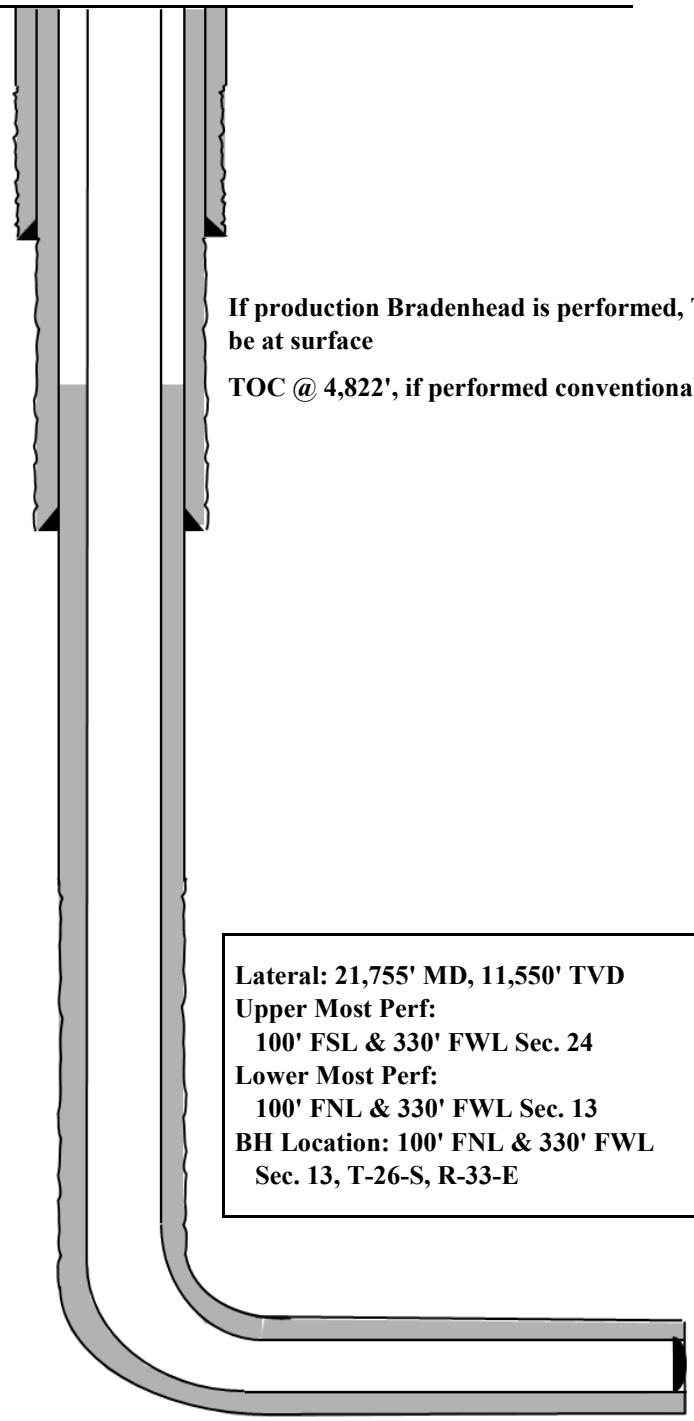
Peachtree 24 Fed Com #572H

340' FNL
918' FWL
Section 24
T-26-S, R-33-E

Proposed Wellbore

API: 30-025-*****

KB: 3368'
GL: 3343'



Bit Size: 13"
10-3/4", 40.5#, J-55, STC
@ 0' - 941' MD
@ 0' - 941' TVD

If production Bradenhead is performed, TOC will be at surface

TOC @ 4,822', if performed conventionally.

Bit Size: 9-7/8"
8-5/8", 32.#, J-55, BTC-SC
@ 0' - 5,322' MD
@ 0' - 5,320' TVD

Lateral: 21,755' MD, 11,550' TVD
Upper Most Perf:
100' FSL & 330' FWL Sec. 24
Lower Most Perf:
100' FNL & 330' FWL Sec. 13
BH Location: 100' FNL & 330' FWL
Sec. 13, T-26-S, R-33-E

Bit Size: 7-7/8"|Bit Size: 6-3/4"
6", 24.5#, P110-EC, VAM Sprint-TC
@ 0' - 10,974' MD
@ 0' - 10,973' TVD

5-1/2", 20.#, P110-EC, VAM Sprint SF
@ 10,974' - 21,755' MD
@ 10,973' - 11,550' TVD

KOP: 11,074' MD, 11,073' TVD
EOC: 11,824' MD, 11,550' TVD

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Master Variance Document

Table of Contents

- BOPE Break Test (3/25/2025)
- Offline Surface/Intermediate Cement (8/15/2023)
- Intermediate Bradenhead Cement (Deep Targets) (8/15/2023)
- Wolfcamp Intermediate Casing Setpoint (6/26/2024)
- Offline Production Cement (11/12/2024)
- Production Bradenhead Cement (8/9/2024)
- Salt Section Annular Clearance (11/8/2022)

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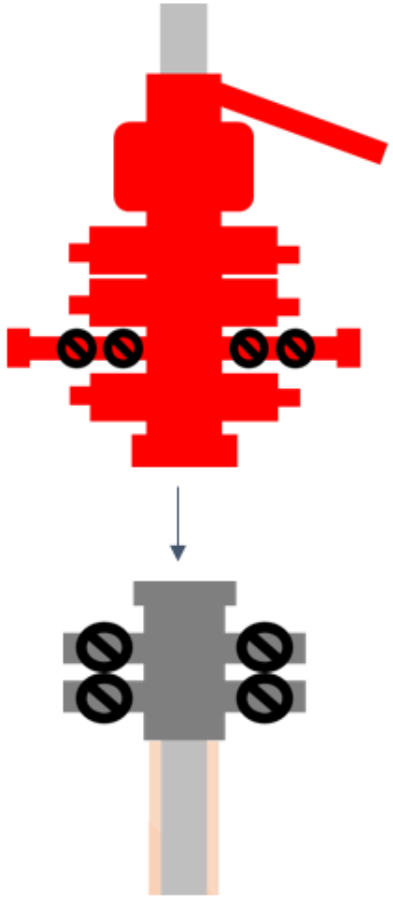
BOPE Break Test Variance

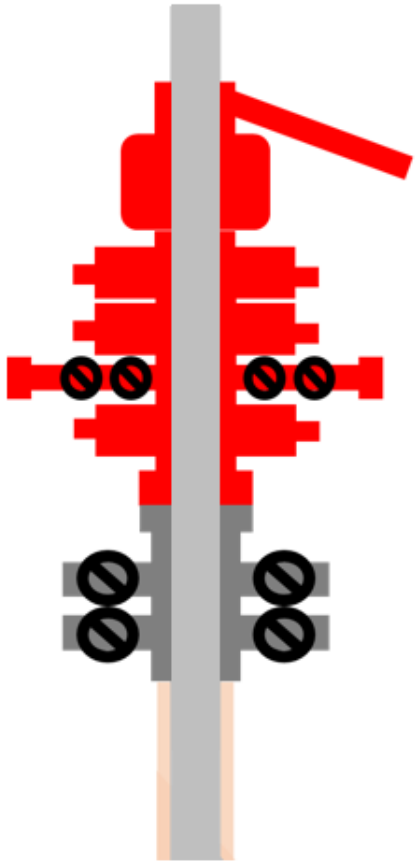
EOG BOPE Break Test Variance (Intervals 5M MASP or less)

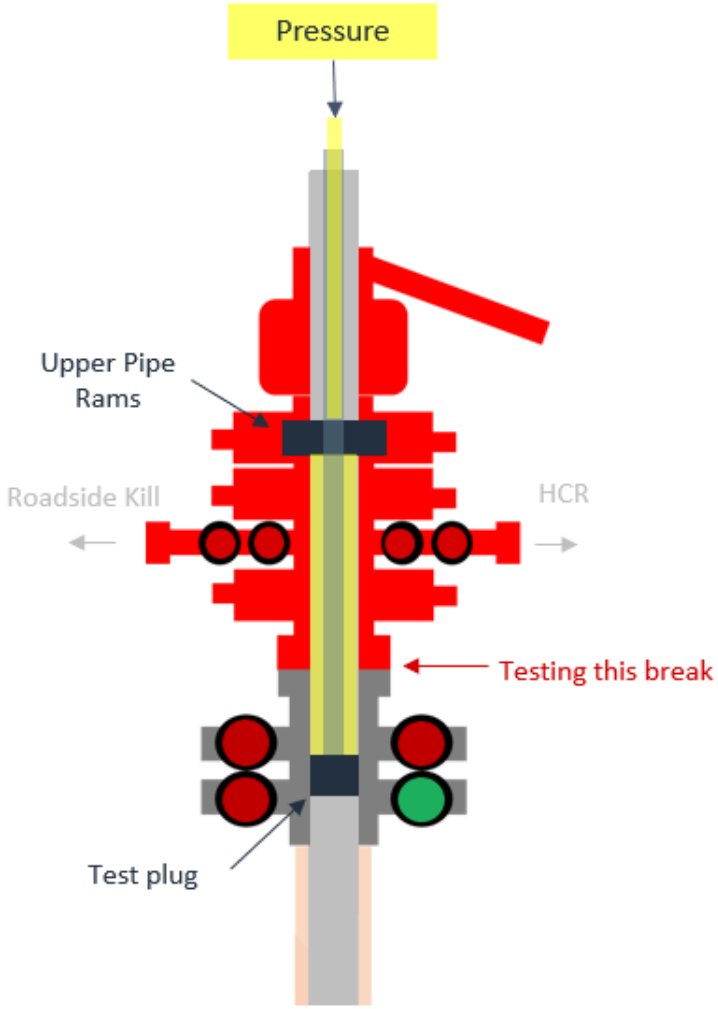
EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of ECFR Title 43 Part 3172.6(b)(9)(iv) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement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

- **Full BOPE test at first installation on the pad.**
- **Full BOPE test every 21 days.**
- **Break-test only available for the Base of the Wolfcamp or shallower**
  - If anything out of the ordinary is observed during drilling, tripping or casing running operations in the production hole section, break testing will not be performed in the subsequent well's production hole section.
  - Furthermore, break testing in the production hole section will not be performed if offset frac operations are observed within 1 mile and within the same producing horizon.
- **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 → during each full BOPE test and at least weekly
  - Pipe Rams → Every trip and on trip ins where FIT required
  - Blind Rams → Every trip
- **Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface, intermediate or production 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 (Test Joint)







Steps

1. Set plug in with test joint wellhead (lower barrier)
2. Close Upper Pipe Rams (upper barrier)
3. Close roadside kill
4. Close HCR
5. 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
8. Bleed test pressure from BOP testing unit

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Offline Surface + Intermediate Variance

Offline Surface + Intermediate Cement

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 Surface + Intermediate Cement

   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.

Offline Surface + Intermediate Cement

Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the 5M MASP (Maximum Allowable Surface Pressure) portion of the well, 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.

Offline Surface + Intermediate Cement

Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the 5M MASP (Maximum Allowable Surface Pressure) portion of the well, 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.

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Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	15M

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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.

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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.

Offline Surface + Intermediate Cement

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

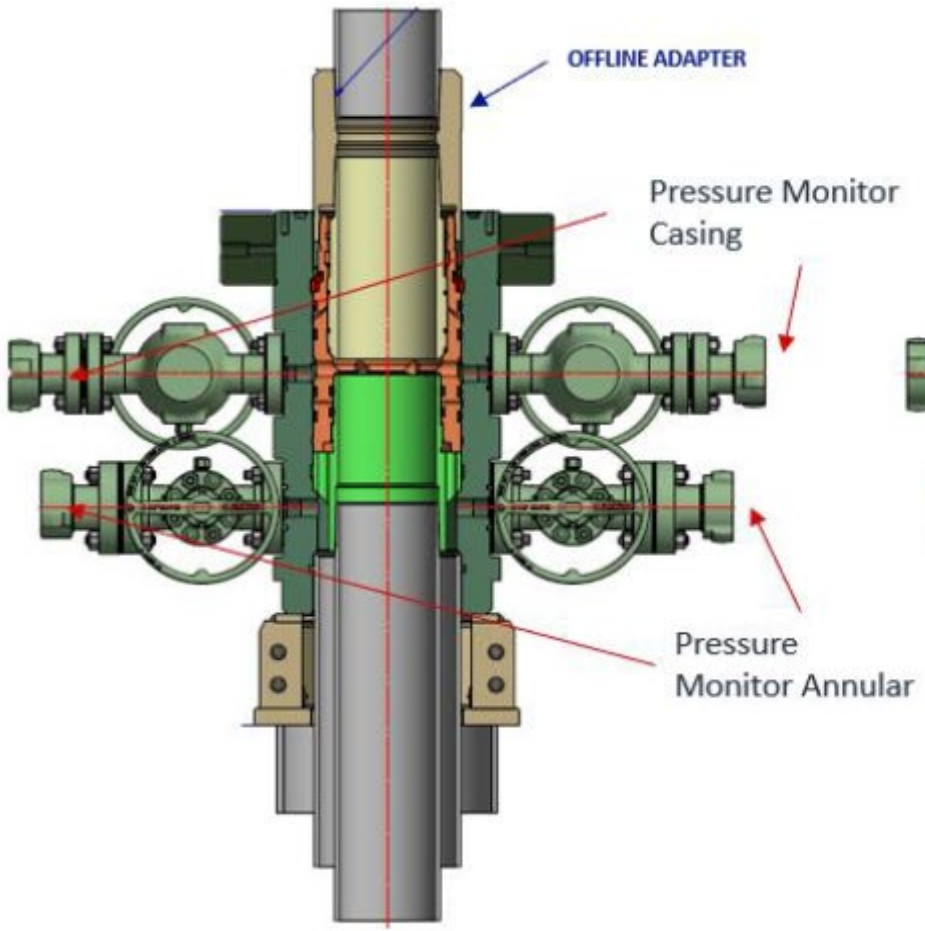
1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut-in.
5. Notify tool pusher/company representative.
6. Open rig choke and begin pumping again taking returns through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

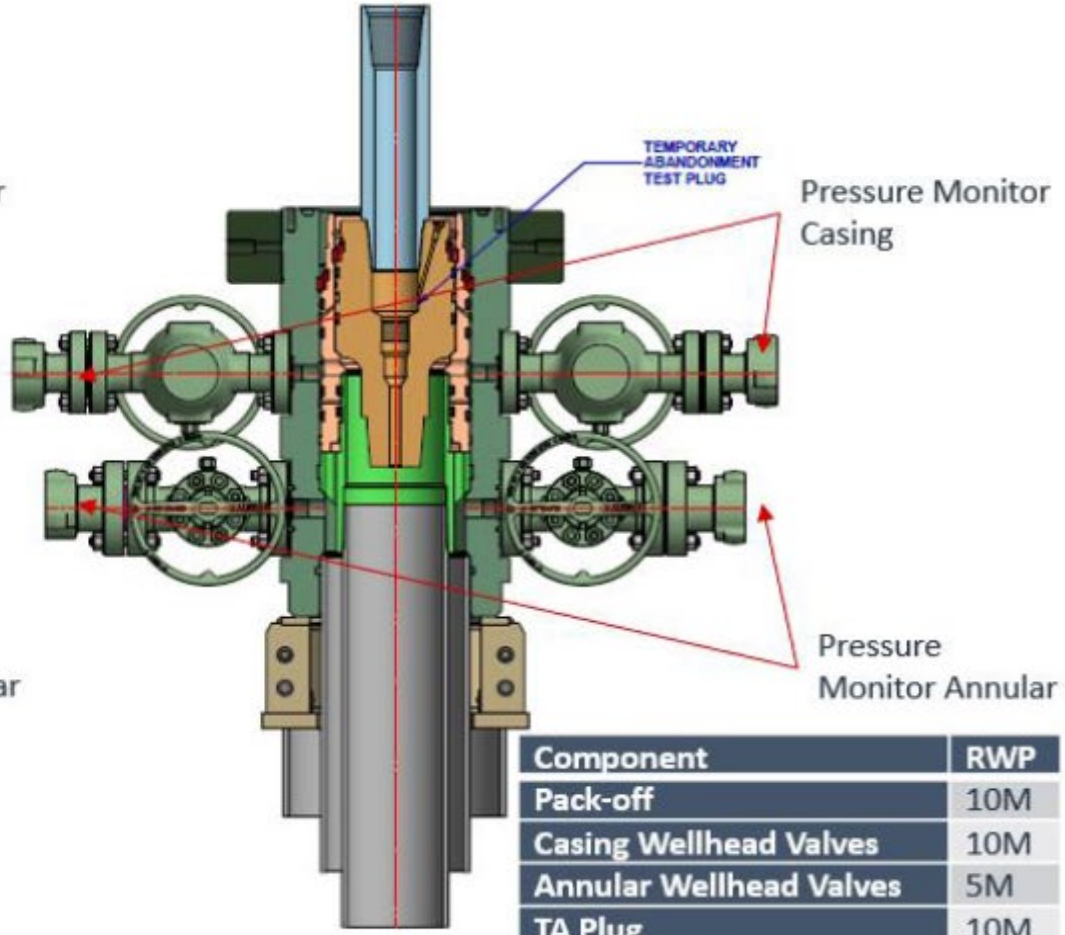
General Procedure After Cementing

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

Offline Surface + Intermediate Cement

Figure 1: Cameron TA Plug and Offline Adapter Schematic

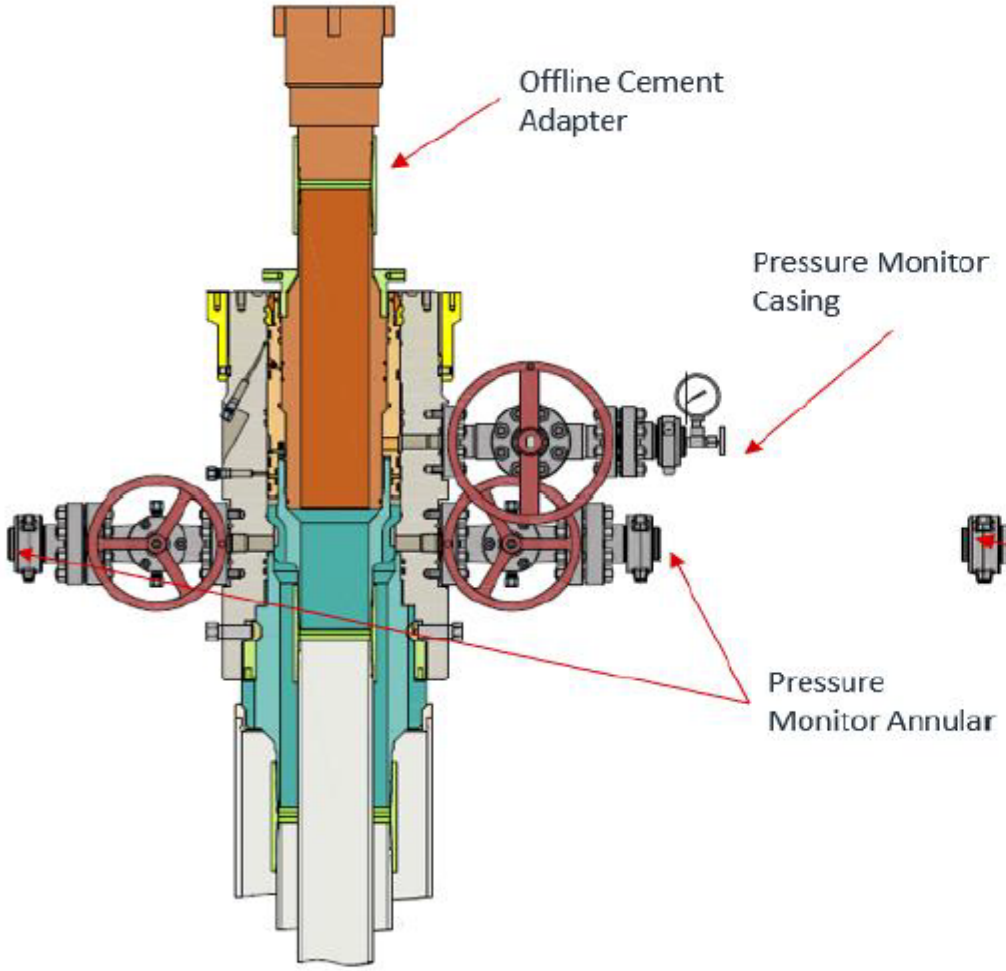


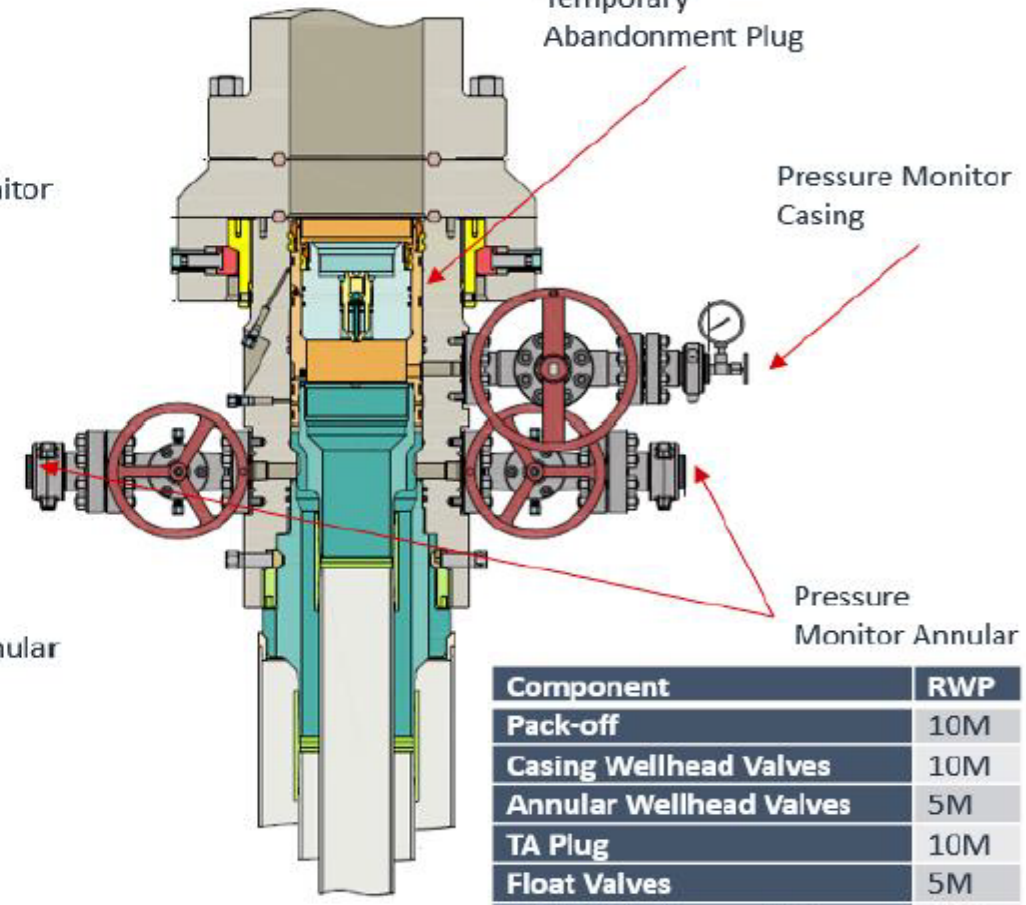


Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	15M

Offline Surface + Intermediate Cement

Figure 2: Cactus TA Plug and Offline Adapter Schematic

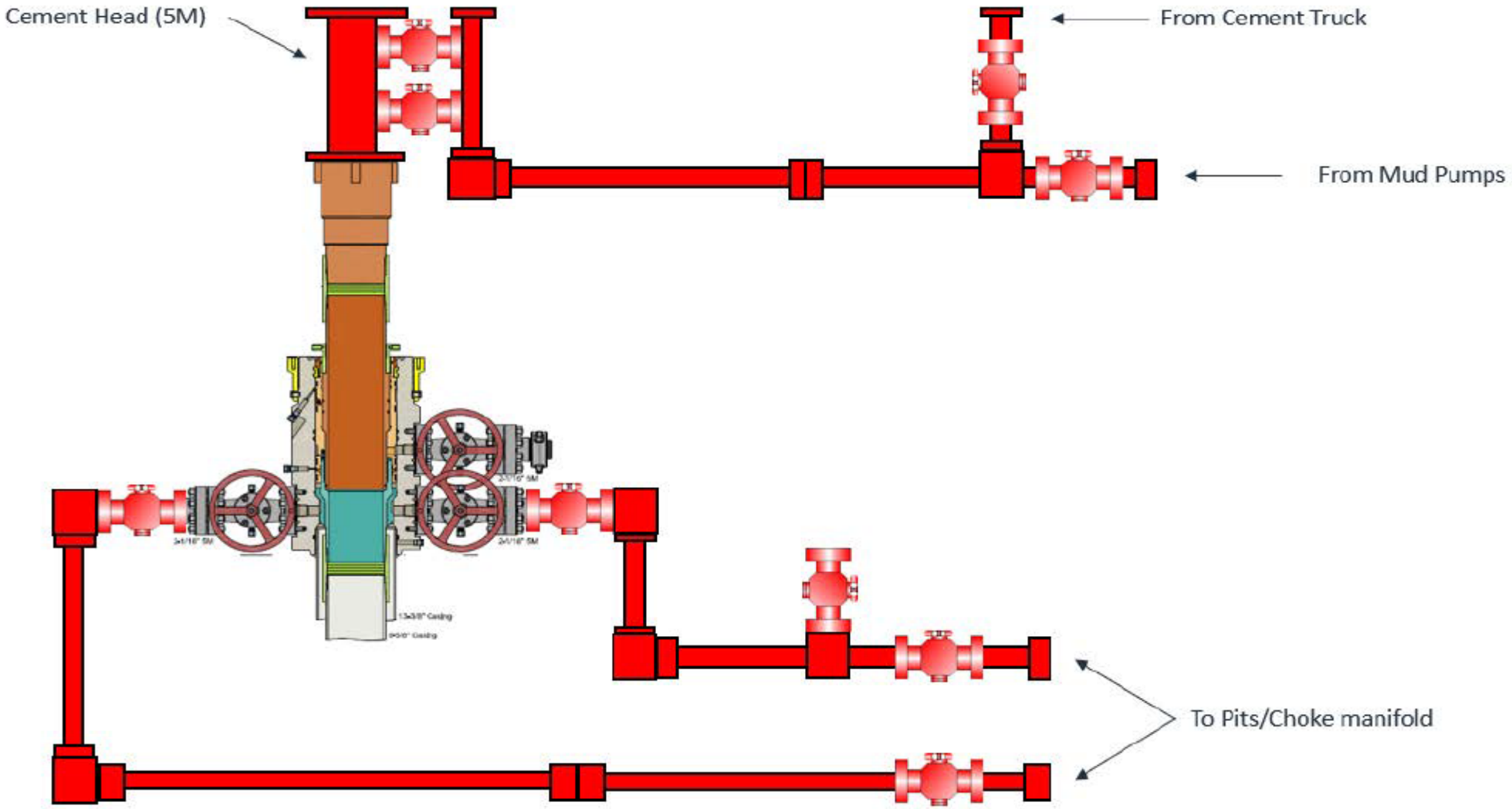




Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	15M

Offline Surface + Intermediate Cement

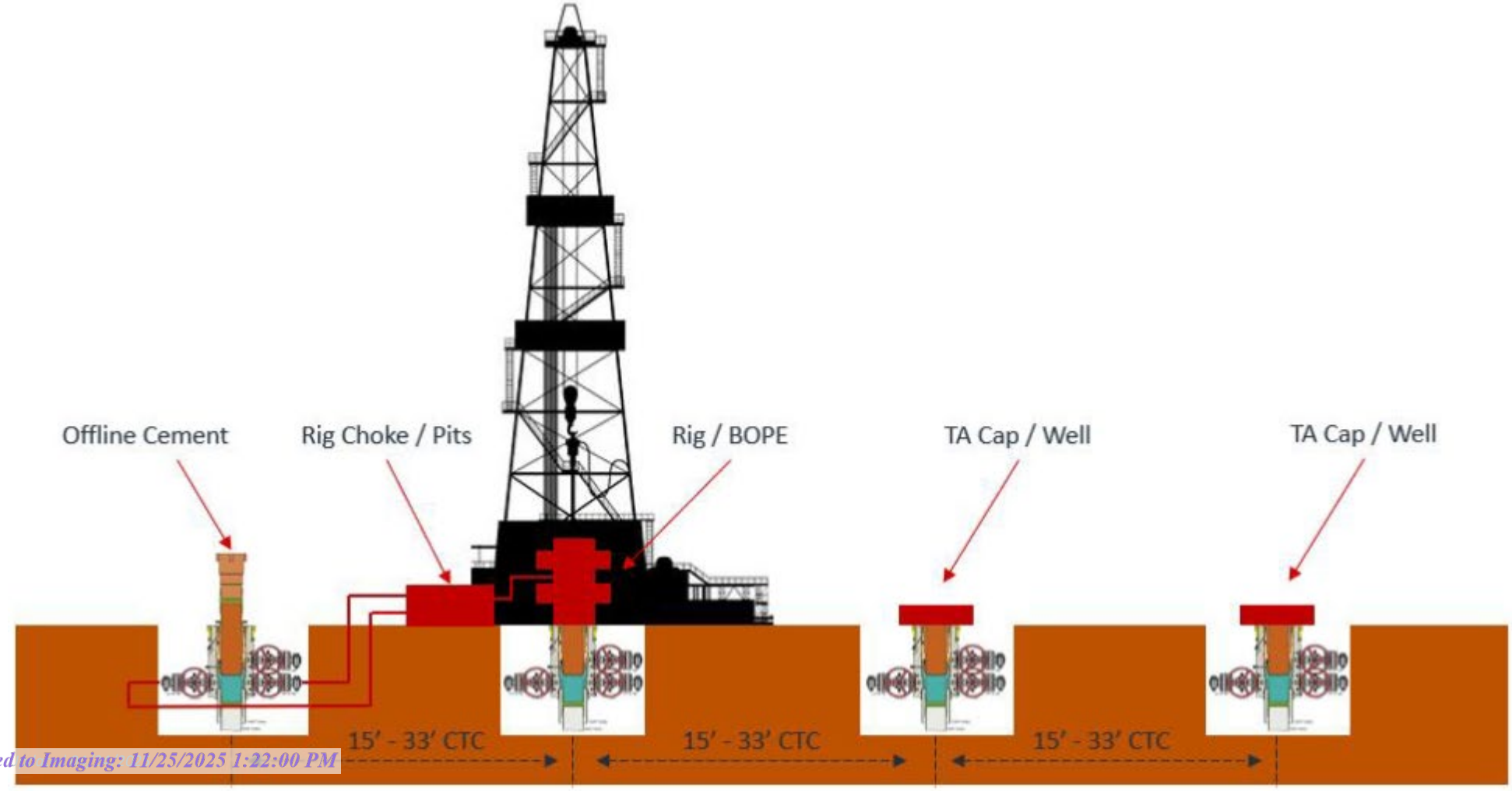
Figure 3: Back Yard Rig Up



*** All Lines 10M rated working pressure

Offline Surface + Intermediate Cement

Figure 4: Rig Placement Diagram



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Intermediate Bradenhead Cement Variance

Intermediate Bradenhead Cement

Deep Target Intermediate Bradenhead:
EOG requests variance from minimum standards to pump a two stage cement job on the intermediate casing string when set below the Delaware Mountain Group with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage bradenhead squeezed to be performed at a minimum of 50% of OH excess (typically increased to ~1,000 sacks) with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of Class C/H cement + additives (2.30 yld, 12.91 ppg) will be executed as a contingency. Top of cement will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

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Wolfcamp Intermediate Casing Setpoint

Intermediate Bradenhead Cement

EOG Resources Inc. (EOG) requests a variance to set the intermediate casing shoe in the Bone Spring formation OR the Wolfcamp formation, depending on depletion in the area and well conditions. EOG will monitor the well and ensure the well is static before casing operations begin.

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Offline Production Cement Variance

EOG Offline Production Checklist

Offline Checklist

All items below must be met. If not, the production cement will be done online.

1. **Offline production cement jobs are applicable for the Base of the Wolfcamp or shallower.**
2. **Nothing out of the ordinary observed during drilling, tripping, or casing running operations in the Production Hole Section.**
3. **Casing must be landed with Hanger.**
4. **EOG Company Man and Superintendent with Well Control certification must be present to monitor returns.**
5. **EOG Cement Advisor must be present to oversee the Cement Job.**
6. **Rig Manager is responsible for walking the rig to the next well.**
7. **The BOP will *NOT* be nippled down if:**
   a) **ANY** barrier fails to test.
   b) **ANY** offset frac operations are observed within 1 mile and within the same producing horizon.
8. **After all barriers test and the BLM has been notified, the BOP may be nippled down to proceed with offline operations.**
9. **EOG will not Drill out of the next well until Cement Operations have concluded on the offline well.**

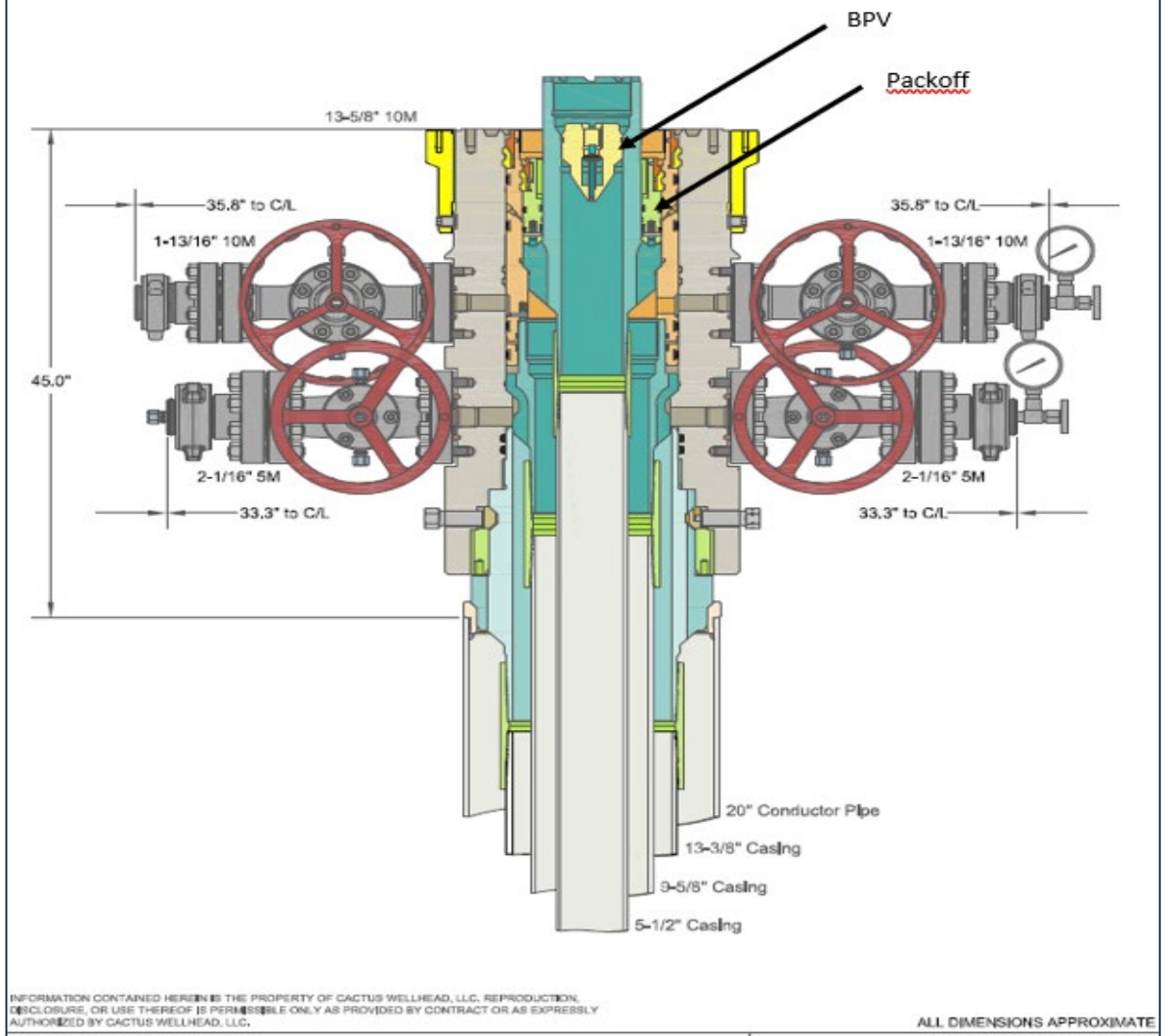
Offline Procedure

1. Run casing as per normal operations. Review EOG Offline Requirements Checklist, if the well is a candidate for Offline Cement on the Production continue following this procedure. Conduct negative pressure test while running casing and confirm integrity of the float equipment back pressure valves.
   a. Float equipment is equipped with two back pressure valves rated to 15,000 psi.
2. Land production casing on mandrel hanger.
   a. If casing is unable to be landed with a mandrel hanger, then the casing will be cemented online.
   b. 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 rated to 10,000 psi. Pressure test same to 10,000 psi.
   c. 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 10,000 psi. Remove landing joint.
3. Install back pressure valve in the casing for a 3rd casing barrier.
   a. Back pressure valve rated to a minimum of 10,000 psi.
4. With the well Secured and BLM notified; Nipple down BOP and secure on hydraulic carrier or cradle and Skid/Walk rig to next well on pad.
   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.
   b. Note, EOG Company Man and Cement Advisor will oversee Cementing Operations while Rig Manager walks the rig and nipples up the BOP.
   c. Note, EOG will not drill out of the subsequent well until after plug bump.
5. Install 10M Gate Valve, with Wellhead Adapter.
   a. This creates an additional barrier on the annulus and inside the casing.
   b. Gate valve rated to a minimum of 10,000 psi.
6. Test connection between Wellhead Adapter seals against hanger neck and ring gasket to 10,000 psi.
7. Remove backpressure valve from the casing.
8. Rig up cement head and cementing lines.
9. After rig up of cement head and cement lines, and confirmation of the annular barriers and casing barriers, notify the BLM with intent to proceed offline cementing.
10. Perform cement job.
11. *Note* – Procedure continued on the next page.

Offline Procedure

12. If an influx is noted during the Cement Job:
    a. It is the Company Man and Superintendent's responsibility to maintain well control.
    b. The aux manifold will be redirected to the rig's chokes.
    c. Backpressure will be held on the well with the chokes to ensure well control is maintained through the remainder of the cement job while circulating out the influx.
    d. If annular surface pressure approaches 90% tested pressure of the manifold or if circulating the influx out with the cementing pumps is not feasible, the well can be secured by closing the casing valves (10M).
    e. Once cement is in place, we will close the casing valves and confirm the well is static and floats are holding.
    f. If the floats fail, the gate valve (10M) or cement head (10M) can be closed to secure the well.
13. Confirm well is static and floats are holding after cement job.
14. Remove cement head.
15. Install back pressure valve.
16. Remove 10M Gate Valve and Wellhead Adapter.
17. Install night cap with pressure gauge for monitoring.
18. Test night cap to 5,000 psi.

Offline Barrier Overview



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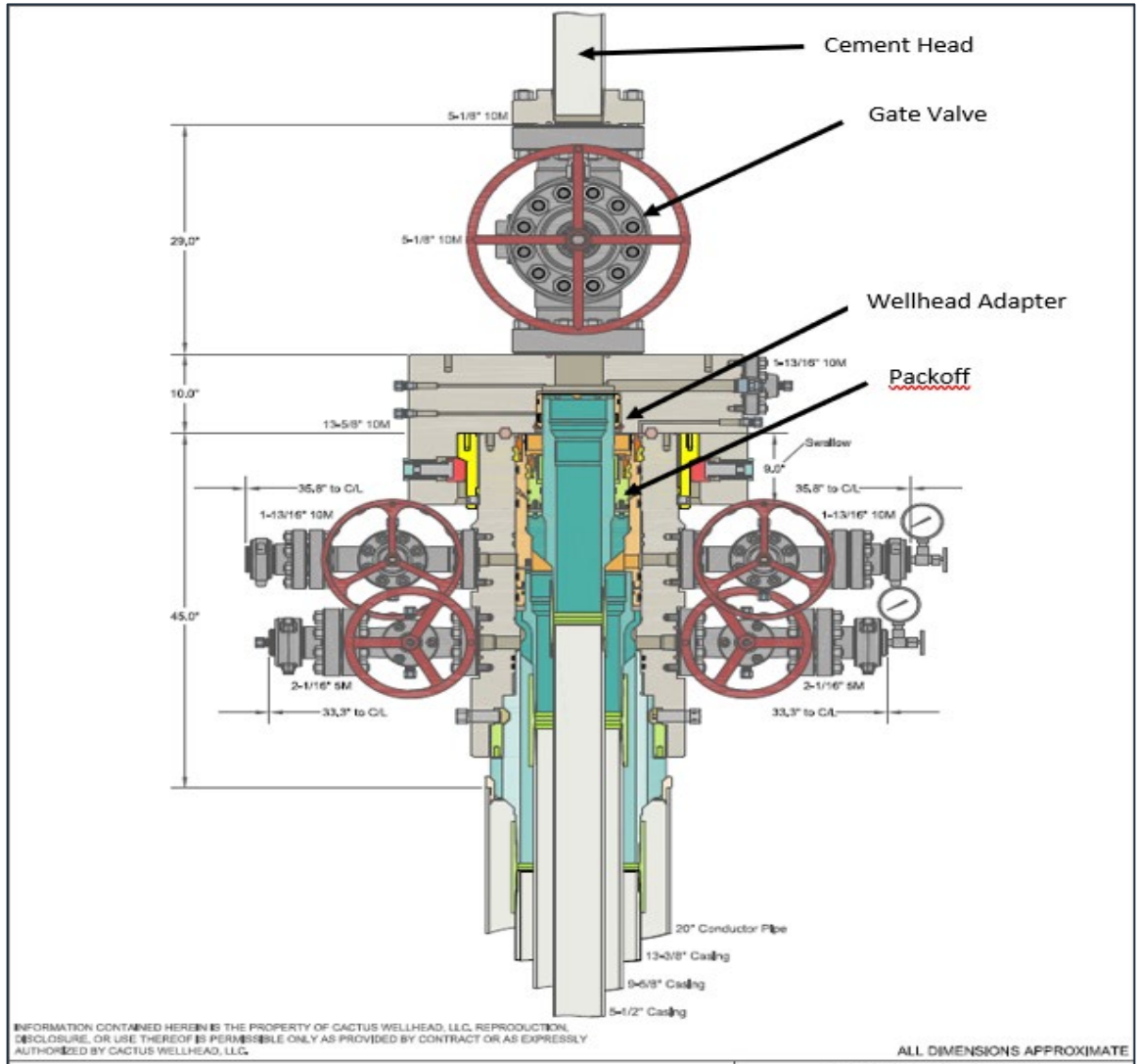
ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	EOG RESOURCES PERMIAN		
13-3/8" x 9-5/8" x 5-1/2" MBU-3T-CFL-DBLO-SF Wellhead System With Single Bowl Tubing Head, Back Pressure Valve And 13-3/8", 9-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers	DRAWN	DLE	28AUG19
	APPRV		
	DRAWING NO.	SDT-2297-2	

Barriers in Place during removal of BOP		
Operation	Casing	Annulus
Nippling Down BOP	1. BPV 2. Hydrostatic Barrier 3. Float Valves	1. Hydrostatic Barrier 2. Mechanical 10M Packoff

Barriers in Place during Offline Cementing of Production Casing		
Operation	Casing	Annulus
Pull BPV	1. Hydrostatic Barrier 2. Float Valves 3. 10M Gate Valve	1. Hydrostatic Barrier 2. Mechanical Packoff 3. 10M Wellhead Adapter
Install Cement Head	1. Hydrostatic Barrier 2. Float Valves 3. 10M Gate Valve	1. Hydrostatic Barrier 2. Mechanical 10M Packoff 3. 10M Wellhead Adapter
Cement Job	1. Hydrostatic Barrier 2. Float Valves 3. 10M Gate Valve 4. Cement Head	1. Hydrostatic Barrier 2. Mechanical 10M Packoff 3. 10M Wellhead Adapter
Remove Cement Head	1. Float Valves 2. 10M Gate Valve	1. Hydrostatic Barrier 2. Mechanical 10M Packoff 3. 10M Wellhead Adapter
Install BPV	1. Float Valves 2. 10M Gate Valve	1. Hydrostatic Barrier 2. Mechanical 10M Packoff 3. 10M Wellhead Adapter
Remove 10M Gate Valve	1. Float Valves 2. BPV	1. Hydrostatic Barrier 2. Mechanical 10M Packoff
Nipple Up TA Cap	1. Float Valves 2. BPV	1. Hydrostatic Barrier 2. Mechanical 10M Packoff

Offline Barrier Overview



Barriers in Place during removal of BOP		
Operation	Casing	Annulus
Nippling Down BOP	1. BPV 2. Hydrostatic Barrier 3. Float Valves	1. Hydrostatic Barrier 2. Mechanical 10M Packoff

Barriers in Place during Offline Cementing of Production Casing		
Operation	Casing	Annulus
Pull BPV	1. Hydrostatic Barrier 2. Float Valves 3. 10M Gate Valve	1. Hydrostatic Barrier 2. Mechanical Packoff 3. 10M Wellhead Adapter
Install Cement Head	1. Hydrostatic Barrier 2. Float Valves 3. 10M Gate Valve	1. Hydrostatic Barrier 2. Mechanical 10M Packoff 3. 10M Wellhead Adapter
Cement Job	1. Hydrostatic Barrier 2. Float Valves 3. 10M Gate Valve 4. Cement Head	1. Hydrostatic Barrier 2. Mechanical 10M Packoff 3. 10M Wellhead Adapter
Remove Cement Head	1. Float Valves 2. 10M Gate Valve	1. Hydrostatic Barrier 2. Mechanical 10M Packoff 3. 10M Wellhead Adapter
Install BPV	1. Float Valves 2. 10M Gate Valve	1. Hydrostatic Barrier 2. Mechanical 10M Packoff 3. 10M Wellhead Adapter
Remove 10M Gate Valve	1. Float Valves 2. BPV	1. Hydrostatic Barrier 2. Mechanical 10M Packoff
Nipple Up TA Cap	1. Float Valves 2. BPV	1. Hydrostatic Barrier 2. Mechanical 10M Packoff

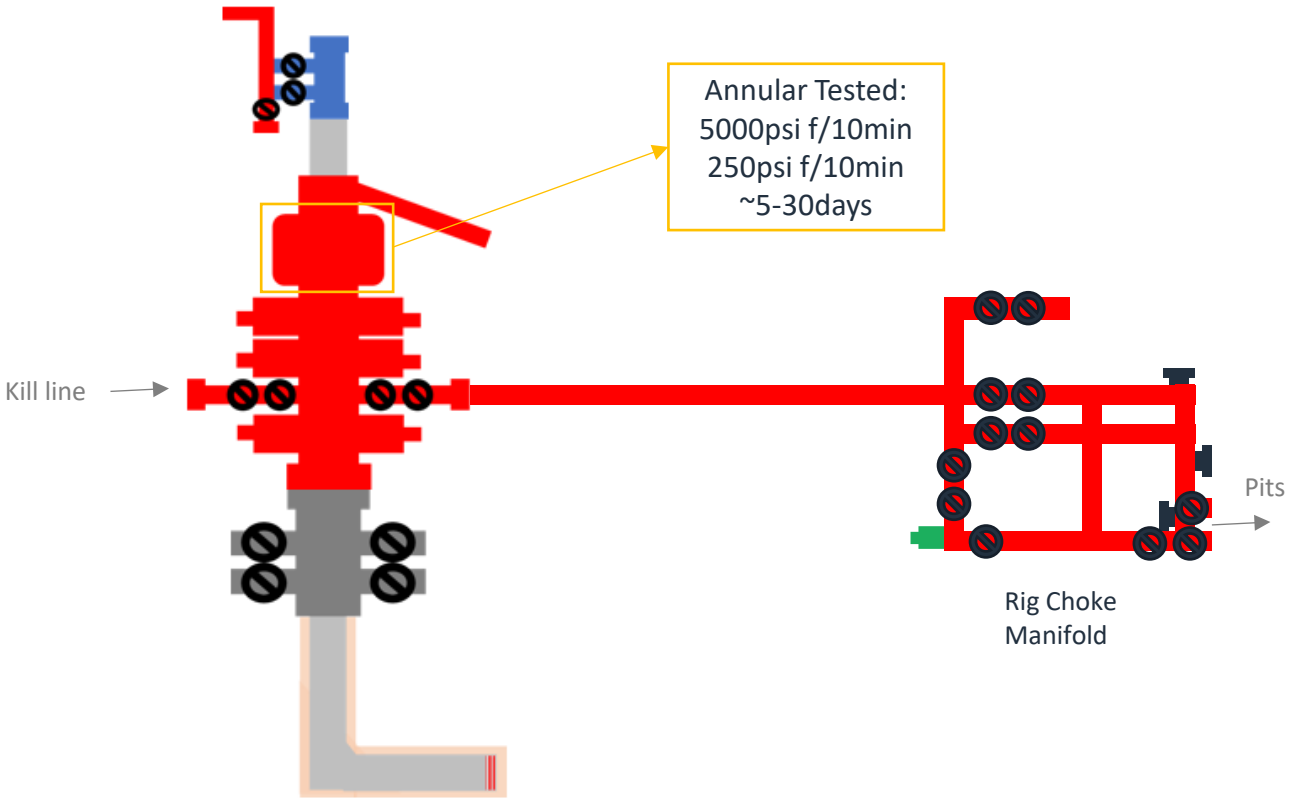
More Control: Meeting/Exceeding Barrier Requirements

Casing Barriers – Online vs Offline		
Operation	Online	Offline
Install Cement Head	1. Hydrostatic Barrier 2. Float Valves	1. Hydrostatic Barrier 2. Float Valves 3. 10M Gate Valve ✓
Cement Job	1. Hydrostatic Barrier 2. Float Valves 3. Cement Head	1. Hydrostatic Barrier 2. Float Valves 3. 10M Gate Valve 4. Cement Head ✓
Remove Cement Head	1. Float Valves	1. Float Valves 2. 10M Gate Valve ✓
Install BPV & Nipple Down BOP / Offline Adapter	1. Float Valves	1. Float Valves 2. BPV ✓
Nipple Up TA Cap	1. Float Valves	1. Float Valves 2. BPV ✓

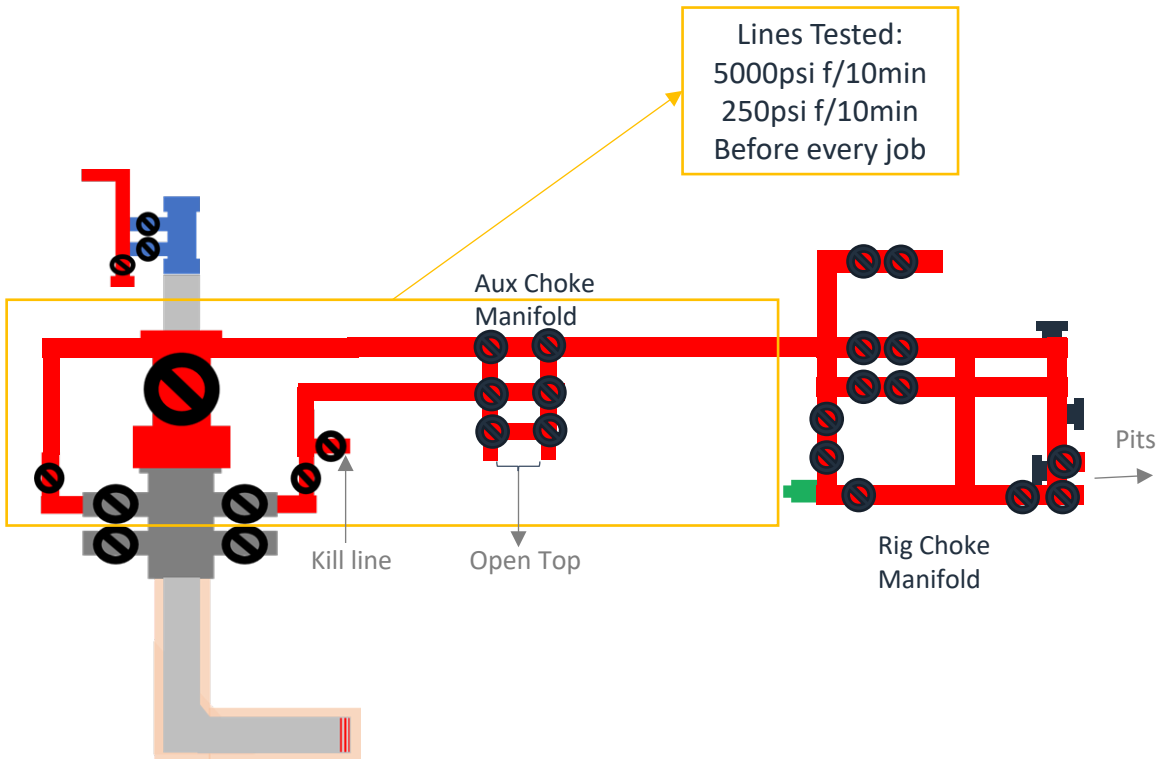
Annulus Barriers – Online vs Offline		
Operation	Online	Offline
Install Cement Head	1. Hydrostatic Barrier 2. Annular 3. VBR	1. Hydrostatic Barrier 2. Mechanical Pack-off 3. 10M Wellhead Adapter ✓
Cement Job	1. Hydrostatic Barrier 2. Annular 3. VBR	1. Hydrostatic Barrier 2. Mechanical Pack-off 3. 10M Wellhead Adapter ✓
Remove Cement Head	1. Hydrostatic Barrier 2. Annular 3. VBR	1. Hydrostatic Barrier 2. Mechanical Pack-off 3. 10M Wellhead Adapter ✓
Install BPV & Nipple Down BOP / Offline Adapter	1. Hydrostatic barrier 2. Mechanical Pack-off	1. Hydrostatic Barrier 2. Mechanical Pack-off ✓
Nipple Up TA Cap	1. Hydrostatic barrier 2. Mechanical Pack-off	1. Hydrostatic Barrier 2. Mechanical Pack-off ✓

Return Rig Up Diagram

Online



Offline



Note:

1) Have the Rig's same Well Control Capabilities as Online
2) Have more flexibility with Gate Valve than with a Landing Joint through BOP
3) Never had to circulate out a kick during Offline

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Production Bradenhead Cement Variance

Production Bradenhead Cement

Shallow Target Production Offline Bradenhead:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards to allow for offline bradenhead cementing of the production string after primary cementing operations have been completed. The primary cement job will be pumped conventionally (online) to top of the Brushy Canyon and will cover the target production intervals, and after production pack-off is set and tested, bradenhead will be pumped through casing valves between the production and intermediate casings (offline). For the bradenhead stage of production cementing, the barriers remain the same for offline cementing compared to performing it online.

The bradenhead will be the primary option for production cementing. EOG also requests to have the conventional option in place to accommodate for logistical or wellbore conditions. The tie back requirements will be met if the cement is pumped conventionally, and cement volumes will be adjusted accordingly. TOC will be verified by CBL.

eog resources

Salt Section Annular Clearance

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

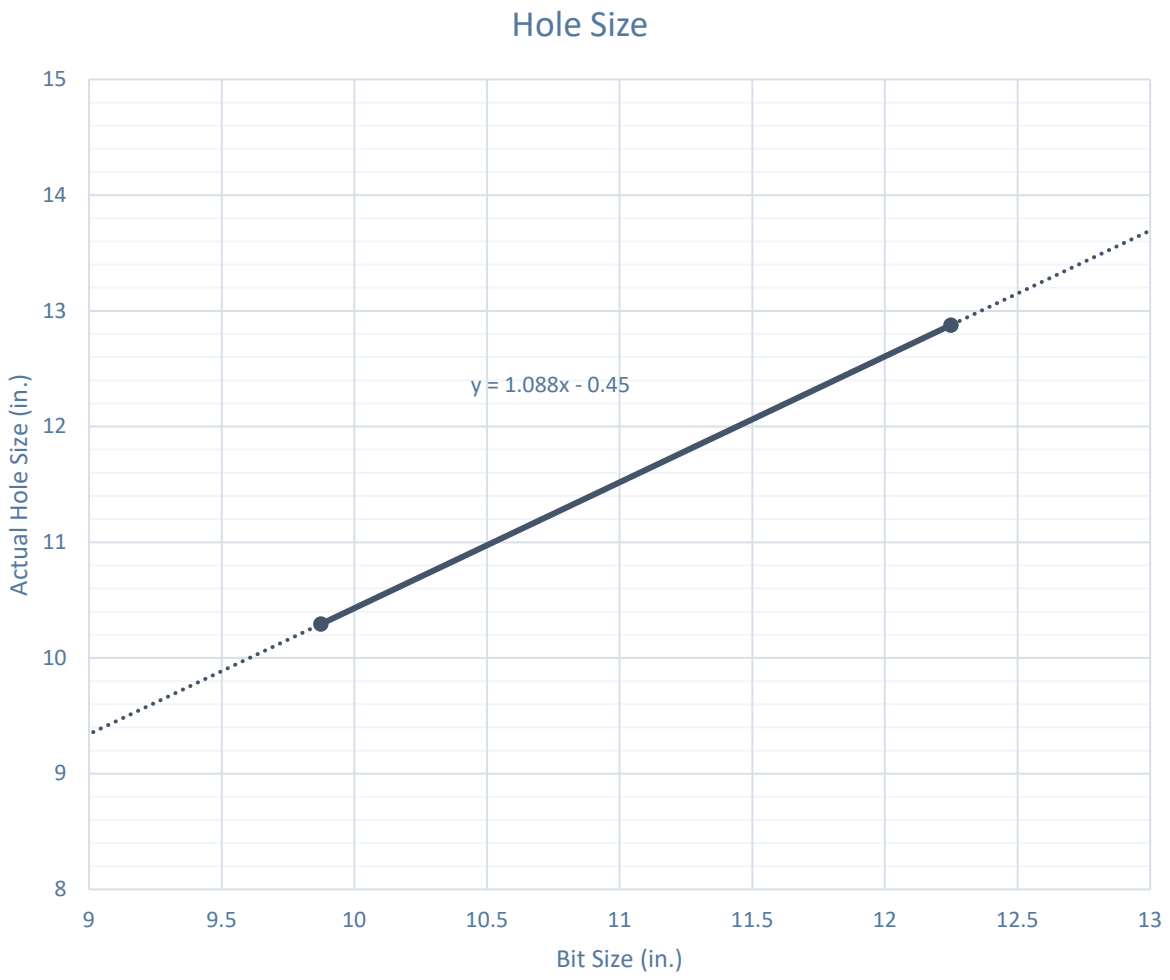
Volumetric Hole Size Calculation

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

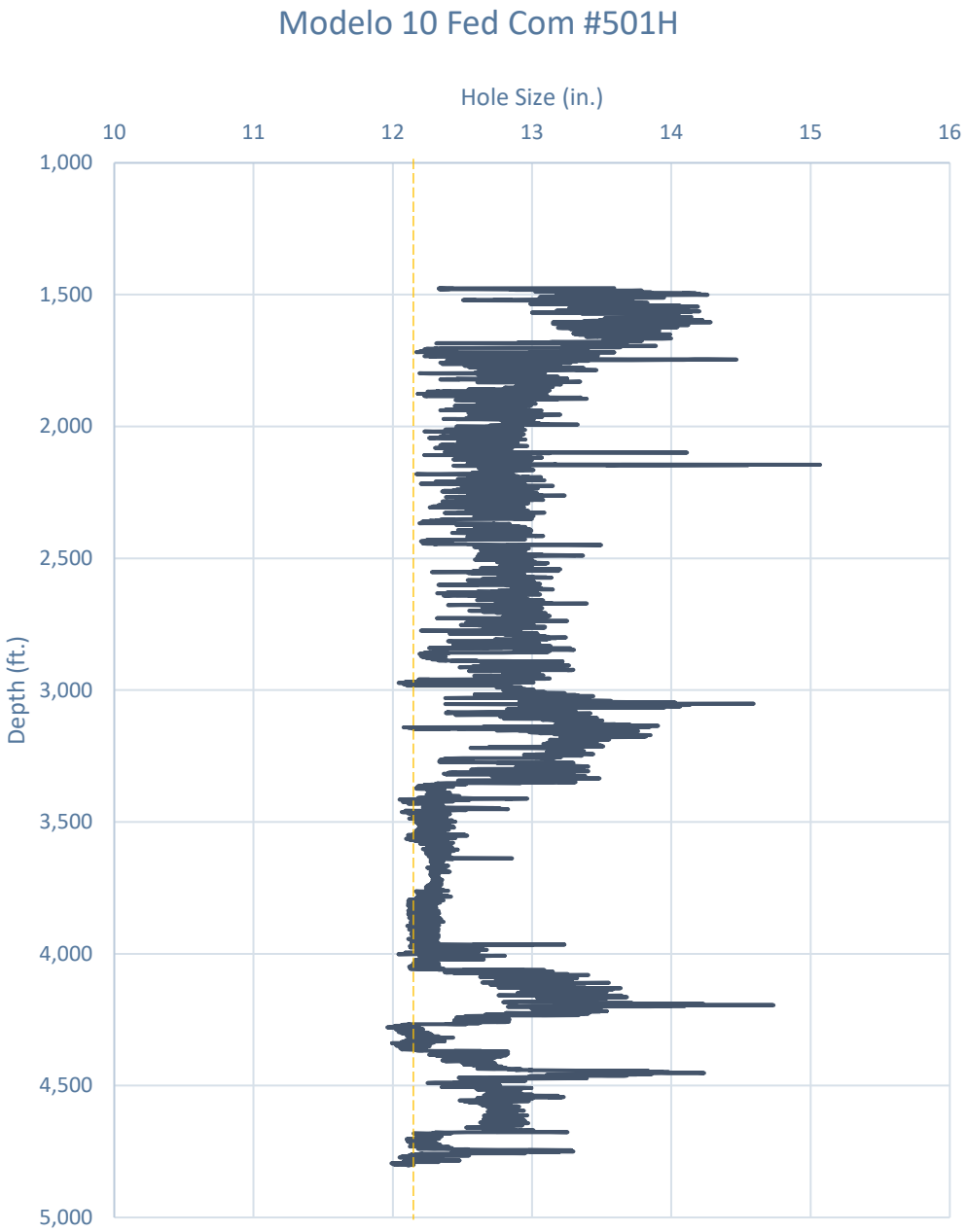
- 12.25” Hole
  - 12.88” Hole
    - 5.13% diameter increase
    - 10.52% area increase
  - 0.63” Average enlargement
  - 0.58” Median enlargement
  - 179 Well Count
- 9.875” Hole
  - 10.30” Hole
    - 4.24% diameter increase
    - 9.64% area increase
  - 0.42” Average enlargement
  - 0.46” Median enlargement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



Caliper Hole Size (12.25”)

Average Hole Size

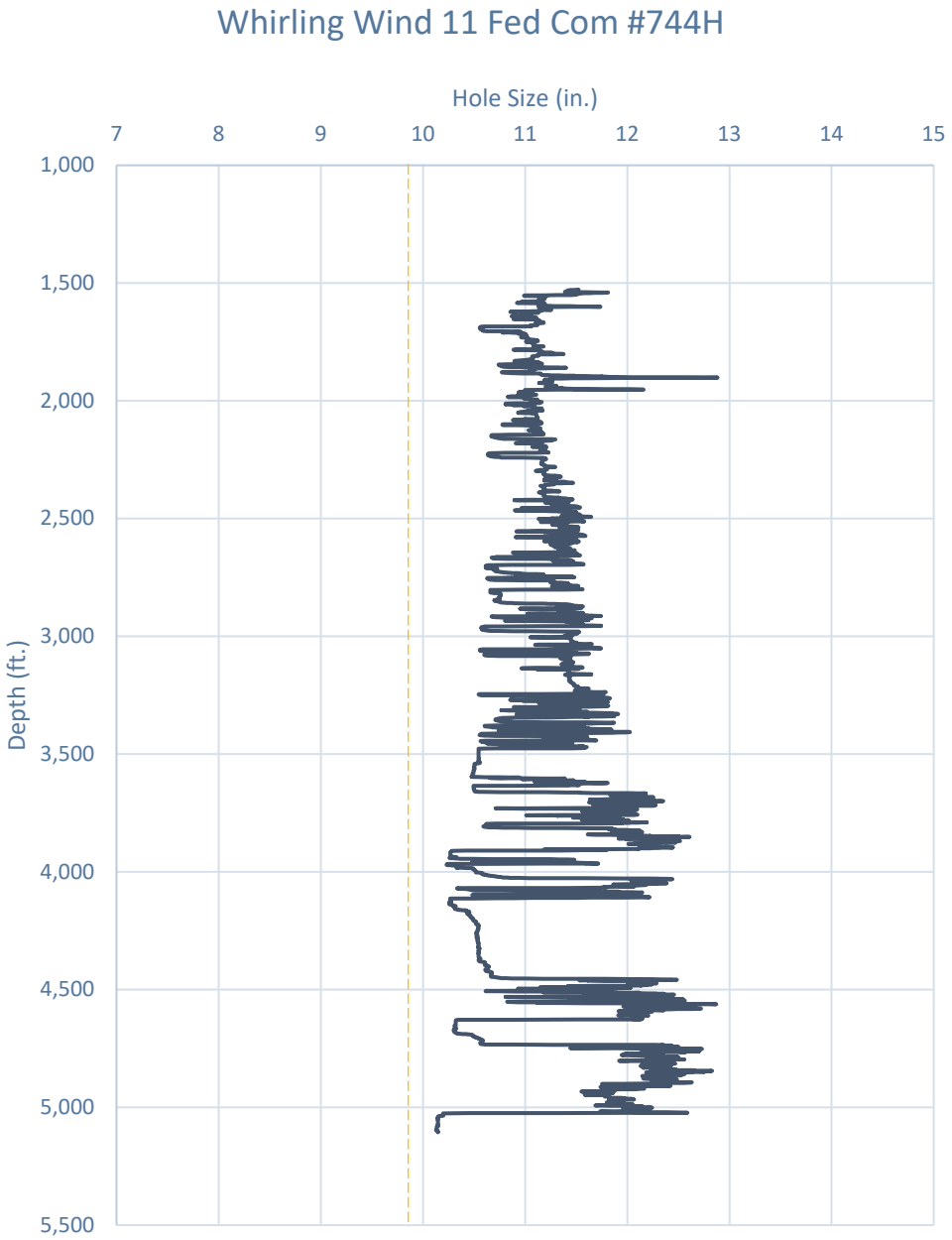
- 12.25” Bit
  - 12.76” Hole
    - 4.14% diameter increase
    - 8.44% area increase
  - 0.51” Average enlargement
  - 0.52” Median enlargement
  - Brine



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



Design A

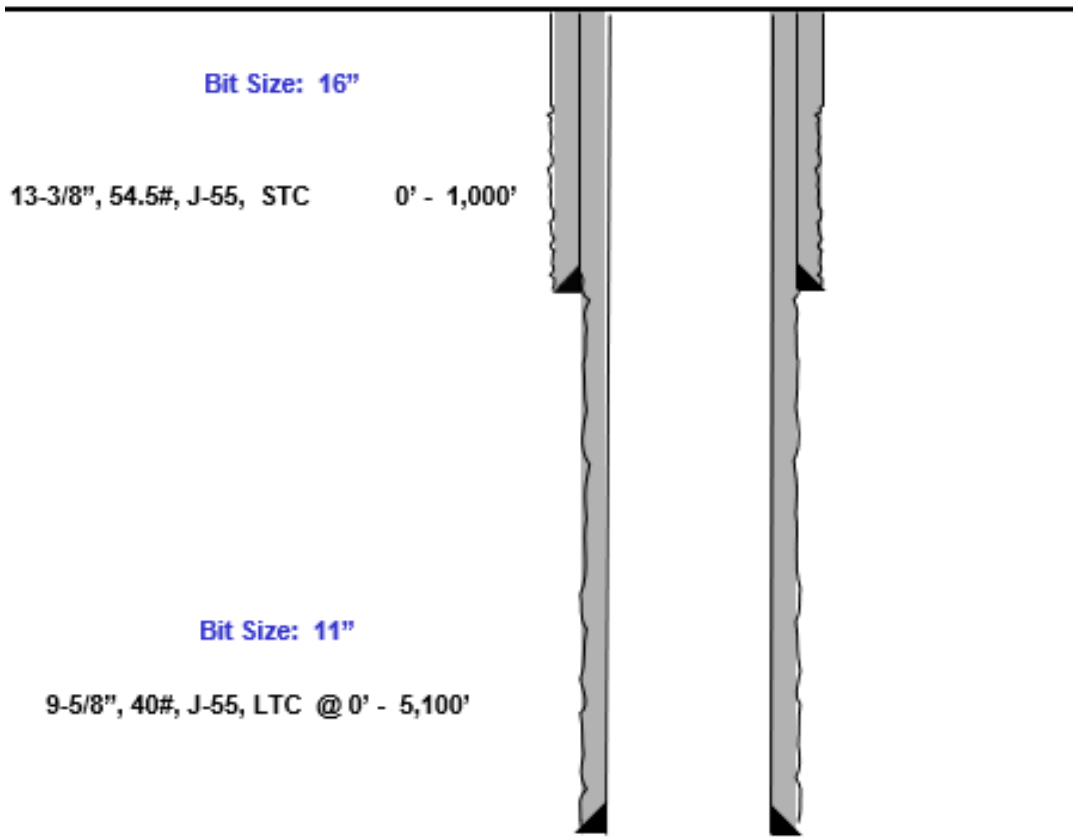
Proposed 11” Hole with 9.625” 40# J55/HCK55 LTC Casing

- 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

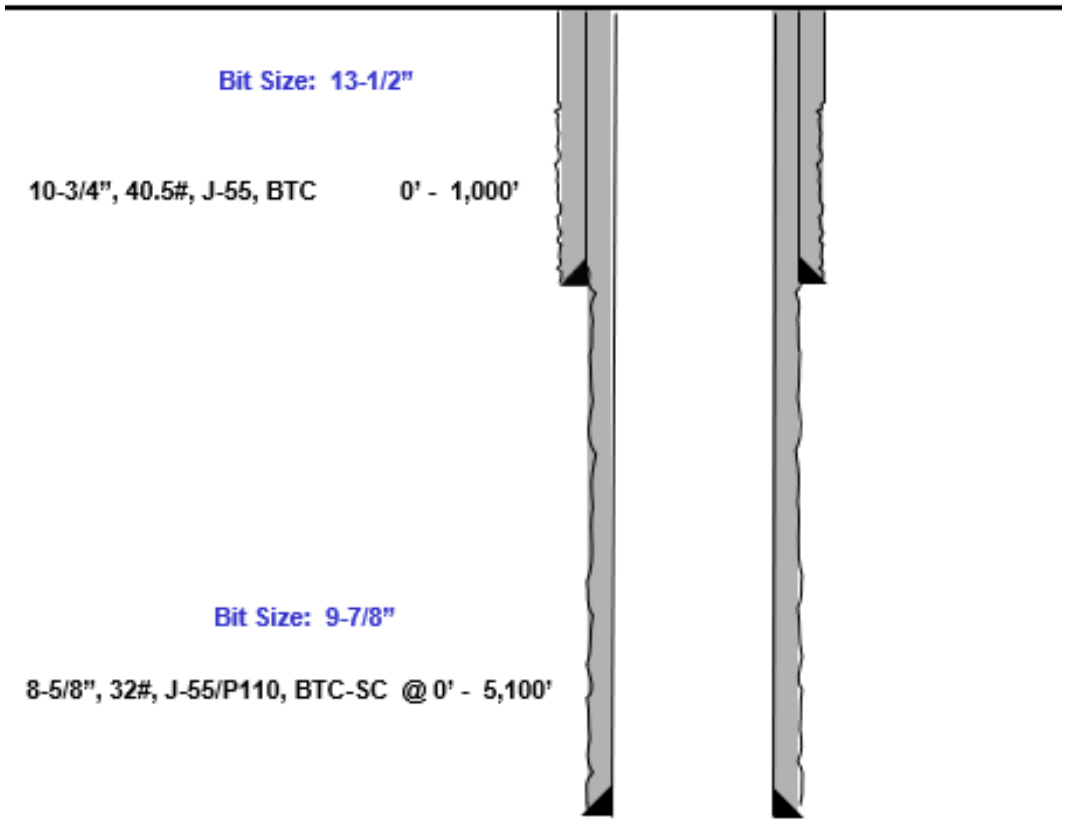
Proposed 9.875” Hole with 8.625” 32# J55/P110 BTC-SC Casing

- 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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Index

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			
Nom. Pipe Body Area	11.454	in²			

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

Pipe Body and API Connections Performance Data

13.375 54.50/0.380 J55 PDF

New Search »

« Back to Previous List

USC Metric

6/8/2015 10:04:37 AM

Mechanical Properties	Pipe	BTC	LTC	STC	
Minimum Yield Strength	55,000	--	--	--	psi
Maximum Yield Strength	80,000	--	--	--	psi
Minimum Tensile Strength	75,000	--	--	--	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	--	--	--	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
Make-Up Data	**Pipe**	**BTC**	**LTC**	**STC**	
Make-Up Loss	--	4.81	--	3.50	in.
Minimum Make-Up Torque	--	--	--	3,860	ft-lbs
Maximum Make-Up Torque	--	--	--	6,430	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

Mechanical Properties	Pipe	BTC	LTC	STC	
Minimum Yield Strength	55,000	--	--	--	psi
Maximum Yield Strength	80,000	--	--	--	psi
Minimum Tensile Strength	75,000	--	--	--	psi
Dimensions	**Pipe**	**BTC**	**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	--	--	--	--	in.
Nominal Linear Weight, T&C	40.50	--	--	--	lbs/ft
Plain End Weight	38.91	--	--	--	lbs/ft
Performance	**Pipe**	**BTC**	**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	--	--	--	1000 lbs
Joint Strength	--	700	--	420	1000 lbs
Reference Length	--	11,522	--	6,915	ft
Make-Up Data	**Pipe**	**BTC**	**LTC**	**STC**	
Make-Up Loss	--	4.81	--	3.50	in.
Minimum Make-Up Torque	--	--	--	3,150	ft-lbs
Maximum Make-Up Torque	--	--	--	5,250	ft-lbs

VALLOUREC STAR 8.625 32# J55 S S2L2 DA 7.875 W/O# SLN # PO# MADE IN USA FT LB

vallourec

API 5CT, 10th Ed. Connection Data Sheet

O.D. (in)	WEIGHT (lb/ft)	WALL (in)	GRADE	*API DRIFT (in)	RBW %
8.625	Nominal: 32.00 Plain End: 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
Performance	
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 - Cplg 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
BTC Torque (ft-lbs)					
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

10/21/2022 15:24

10,000 PSI BOP Annular
Variance Request (EOG Variance 1c)

EOG Resources request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

1. Component and Preventer Compatibility Tables

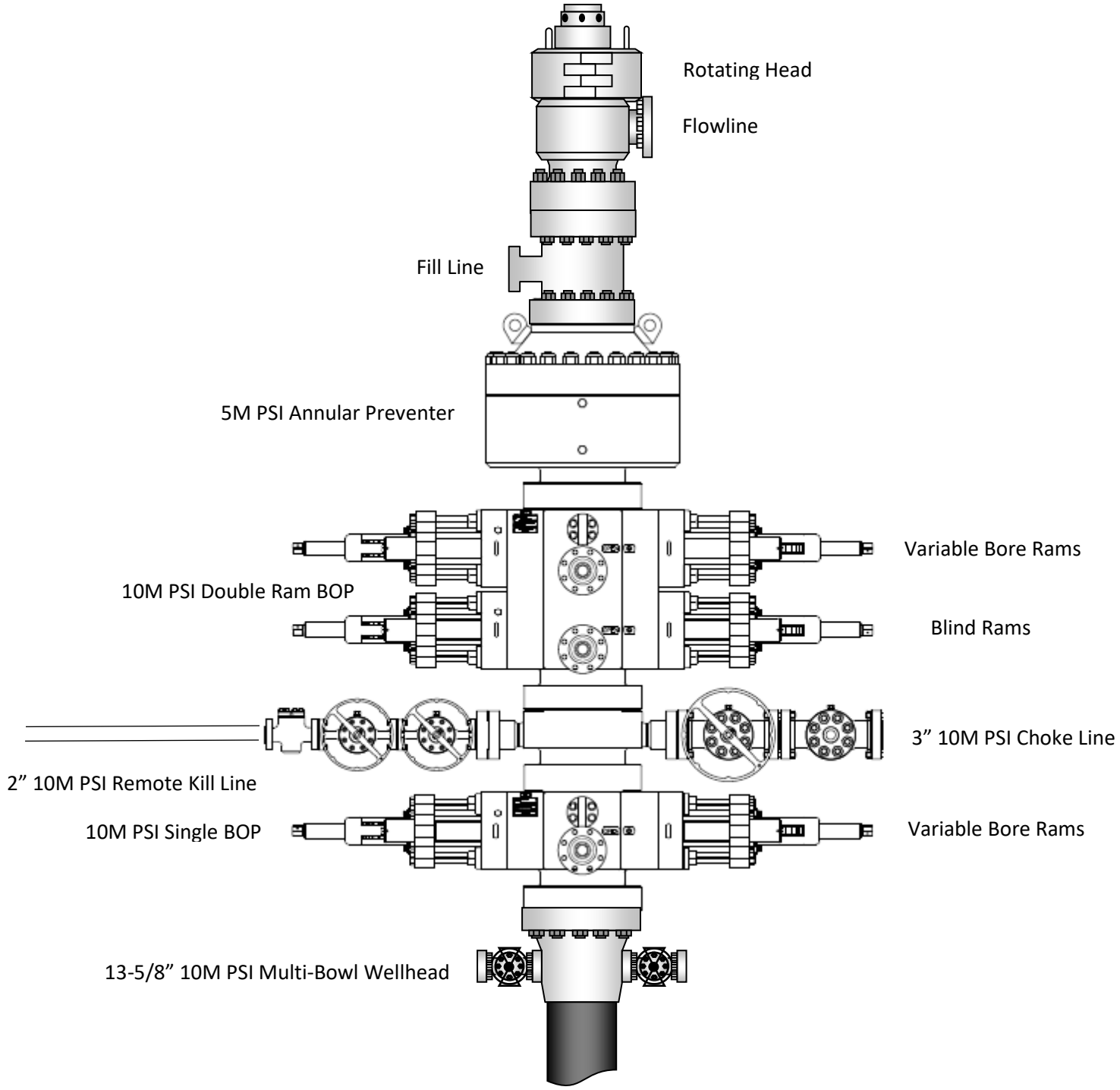
The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

12-1/4" Intermediate Hole Section 10M psi requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	6.500" – 8.000"	Annular	5M	-	-
Mud Motor	8.000" – 9.625"	Annular	5M	-	-
1st Intermediate casing	9.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M	-	-

8-3/4" Production Hole Section 10M psi requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	6.500" – 8.000"	Annular	5M	-	-
Mud Motor	6.750" – 8.000"	Annular	5M	-	-
2nd Intermediate casing	7.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M	-	-

VBR = Variable Bore Ram

EOG Resources
13-5/8” 10M PSI BOP Stack



2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the EOG Resources drilling supervisor's office on location, and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 100% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams. (HCR and choke will already be in the closed position.)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
    a. SICP
    b. Pit gain
    c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drillpipe thru the stack.
    a. Perform flowcheck, if flowing:
    b. Sound alarm (alert crew)
    c. Stab full opening safety valve and close
    d. Space out drill string with tool joint just beneath the upper variable bore rams.
    e. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
    f. Confirm shut-in
    g. Notify toolpusher/company representative
    h. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    i. Regroup and identify forward plan

2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. Stab crossover and full opening safety valve and close
    c. Space out drill string with upset just beneath the upper variable bore rams.
    d. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
    e. Confirm shut-in
    f. Notify toolpusher/company representative
    g. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. If possible to pick up high enough, pull string clear of the stack and follow “Open Hole” scenario.
    c. If impossible to pick up high enough to pull the string clear of the stack:
    d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
    e. Space out drill string with tooljoint just beneath the upper variable bore ram.
    f. Shut-in using upper variable bore ram. (HCR and choke will already be in the closed position.)
    g. Confirm shut-in
    h. Notify toolpusher/company representative
    i. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    j. Regroup and identify forward plan

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EOG BLANKET CASING DESIGN VARIANCE

EOG respectfully requests the drill plans in the attached document 'EOG BLM Variance 5a - Alternate Shallow Casing Designs' be added to the COA's for this well. These designs have been approved by the BLM down to the TVDs listed below and will allow EOG to run alternate casing designs for this well if necessary.

The designs and associated details listed are the "worst case scenario" boundaries for design safety factors. Location and lithology have NOT been accounted for in these designs. The specific well details will be based on the APD/Sundry package and the information listed in the COA.

The mud program will not change from the original design for this well. Summary of the mud programs for both shallow and deep targets are listed at the end of this document. If the target is changing, a sundry will be filed to update the casing design and mud/cement programs.

Cement volumes listed in this document are for reference only. The cement volumes for the specific well will be adjusted to ensure cement tops meet BLM requirements as listed in the COA and to allow bradenhead cementing when applicable.

This blanket document only applies to wells with three string designs outside of Potash and Capitan Reef boundaries.

Shallow Design Boundary Conditions				
	Deepest MD (ft)	Deepest TVD (ft)	Max Inc (deg)	Max DLS (°/100usft)
Surface	2030	2030	0	0
Intermediate	7793	5650	40	8
Production	28578	12000	90	25

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Shallow Design A

4. CASING PROGRAM

Hole Size	Interval MD From (ft)	Interval MD To (ft)	Interval TVD From (ft)	Interval TVD To (ft)	Csg OD	Weight	Grade	Conn
16"	0	2,161	0	2,030	13-3/8"	54.5#	J-55	STC
11"	0	7,951	0	5,650	9-5/8"	40#	J-55	LTC
6-3/4"	0	29,353	0	12,000	5-1/2"	20#	P110-EC	DWC/C IS MS

Hole will be full during casing run for well control and tensile SF factor. Casing will be kept at least half full during run for this design to meet BLM collapse SF requirement. External pressure will be reviewed prior to conducting casing pressure tests to ensure that 70% of the yield is not exceeded.

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 Title 43 CFR Part 3170 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.

5. CEMENTING PROGRAM:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
2,030' 13-3/8"	570	13.5	1.73	Lead: Class C/H + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C/H + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1830')
8,050' 9-5/8"	760	12.7	2.22	Lead: Class C/H + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	250	14.8	1.32	Tail: Class C/H + 10% NaCL + 3% MagOx (TOC @ 6360')
29,353' 5-1/2"	1000	14.8	1.32	Bradenhead squeeze: Class C/H + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
	1480	13.2	1.52	Tail: Class C/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 @ Top of Brushy)

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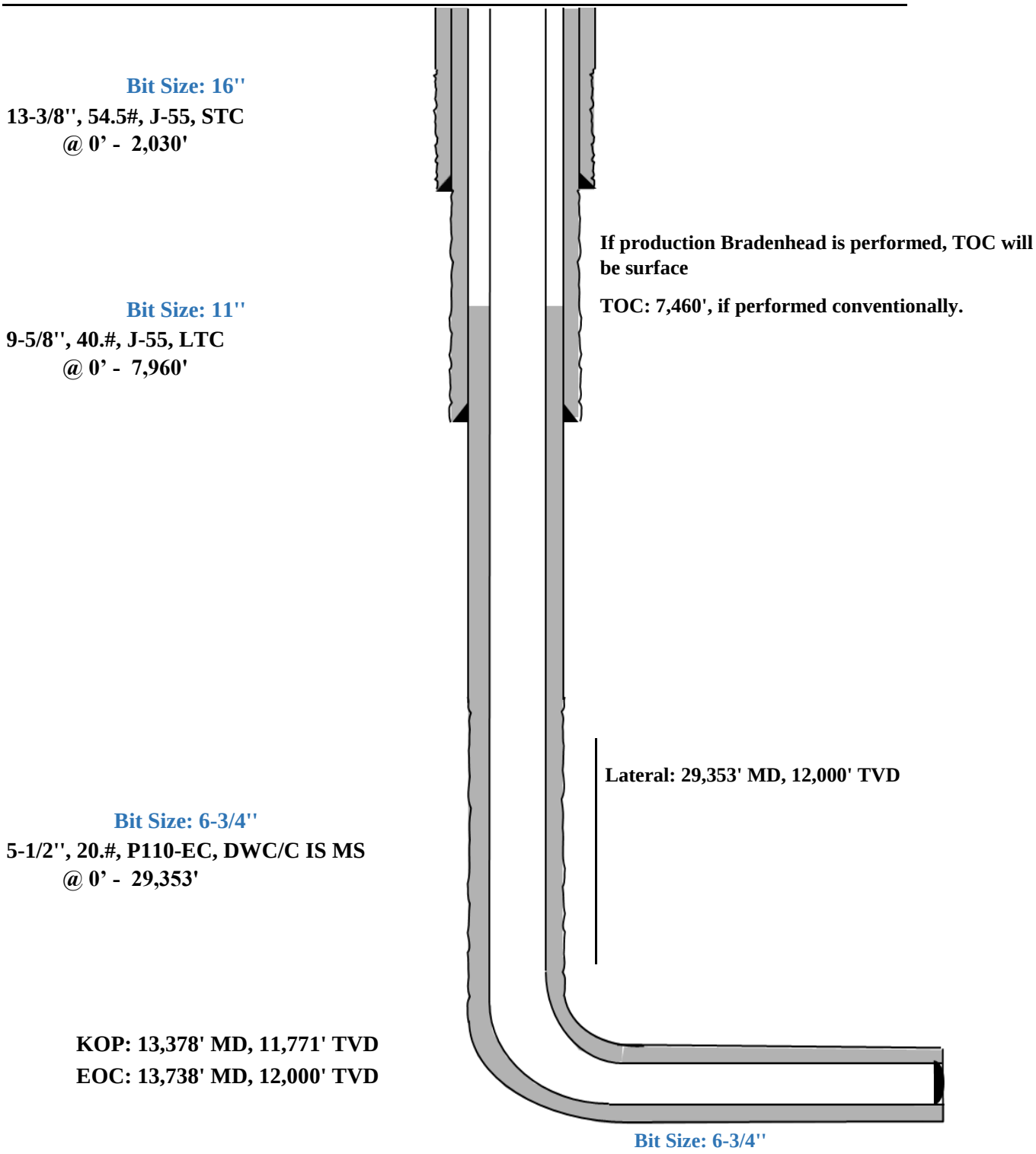
Shallow Design A

Proposed Wellbore

KB: 3558'
GL: 3533'



Stresscheck - [Triaxial Results - Shallow 3.0 Mile - Big Hole]

File Edit Wellbore Tubular View Composer Tools Window Help

9 5/8" Intermediate Casing

Pressure Test

Triaxial Results

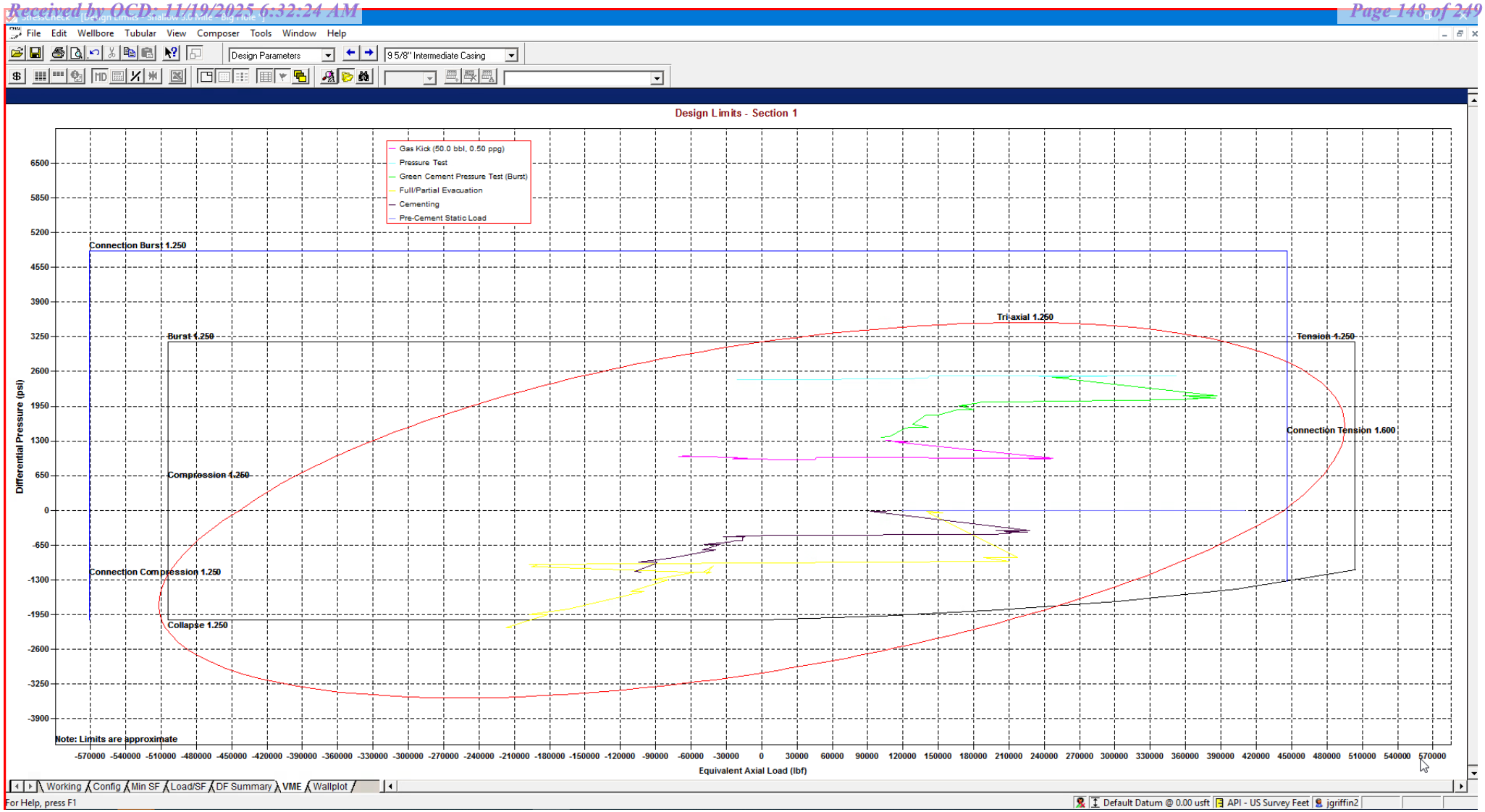
	Depth (MD) (usft)	Axial Force (lbf) Apparent (w/Bending)	Axial Force (lbf) Actual (w/o Bending)	Equivalent Axial Load (lbf)	Bending Stress at OD (psi)	Absolute Safety Factor Triaxial	Absolute Safety Factor Burst	Absolute Safety Factor Collapse (V)	Absolute Safety Factor Axial	Temperature (°F)	Pressure (psi) Internal	Pressure (psi) External	Addt'l Pickup To Prevent Buck. (lbf)	Buckled Length (usft)
1	0	252987	228954	253140	2098.2	1.69	1.58	N/A	2.82 F	70.00	2500.00	0.00	N/A	N/A
2	100	247735	223702	248466	2098.2	1.69	1.58	N/A	2.88 F	71.10	2543.63	43.63		
3	100	234996	223701	235716	986.2	1.71	1.58	N/A	3.04 F	71.10	2543.64	43.64		
4	1700	341565	139667	352253	17627.2	1.53	1.57	N/A	2.09 F	88.70	3241.64	741.64		
5	1700	312979	139666	323488	15131.5	1.58	1.57	N/A	2.28 F	88.70	3241.65	741.65		
6	1850	336881	132027	348440	17885.2	1.51	1.57	N/A	2.12 F	90.29	3305.05	805.05		
7	1850	318549	132027	329984	16284.8	1.54	1.57	N/A	2.24 F	90.29	3305.06	805.06		
8	1950	320468	127243	332475	16869.9	1.52	1.57	N/A	2.23 F	91.30	3344.87	844.87		
9	1950	312802	127243	324756	16200.7	1.53	1.57	N/A	2.28 F	91.30	3344.87	844.87		
10	2050	307858	122773	320295	16159.3	1.52	1.57	N/A	2.32 F	92.23	3381.89	881.89		
11	2050	303560	122772	315965	15784.1	1.53	1.57	N/A	2.35 F	92.23	3381.89	881.89		
12	2300	151294	112633	163658	3375.4	1.71	1.57	N/A	4.72 F	94.35	3466.13	966.13		
13	2300	132741	112633	144956	1755.6	1.72	1.57	N/A	5.38 F	94.35	3466.14	966.14		
14	2370	129966	109858	142452	1755.6	1.72	1.57	N/A	5.49 F	94.94	3489.28	989.28		
15	2370	127909	107800	140922	1755.6	1.75	1.60	N/A	5.58 F	94.94	3489.29	1036.40		
16	2700	105515	94232	119785	985.1	1.75	1.60	N/A	6.77 F	97.73	3599.97	1152.35		
17	2700	111680	94231	126006	1523.4	1.75	1.60	N/A	6.39 F	97.73	3599.97	1152.35		
18	3100	110766	77783	126839	2879.6	1.71	1.60	N/A	6.44 F	101.11	3734.23	1293.00		
19	3100	97392	77783	113331	1712.1	1.73	1.60	N/A	7.33 F	101.11	3734.23	1293.01		
20	3700	71565	53303	89806	1594.4	1.70	1.61	N/A	9.97 F	106.15	3934.24	1502.54		
21	3700	60887	53302	79004	662.3	1.71	1.61	N/A	11.72 F	106.16	3934.25	1502.55		
22	4650	34671	14219	56495	1785.6	1.64	1.61	N/A	20.59 F	114.20	4253.37	1836.86		
23	4900	44595	4828	67626	3472.0	1.59	1.61	N/A	16.01 F	116.32	4337.37	1924.87		
24	4900	28975	4828	51775	2108.2	1.62	1.61	N/A	24.64 F	116.32	4337.38	1924.87		
25	5029	22103	34	45340	1926.8	1.61	1.61	N/A	32.30 F	117.40	4380.40	1969.94		
26	5029	22102	33	45339	1926.8	1.61	1.61	N/A	32.30 F	117.40	4380.41	1969.95		
27	5600	-45329	-21341	-20805	2094.3	1.57	1.62	N/A	(13.67)	122.23	4572.11	2170.78		
28	5650	-40465	-23210	-15657	1506.5	1.58	1.62	N/A	(15.31)	122.66	4588.87	2188.34		
29														
30	F	Conn Fracture												
31	( )	Compression												
32	(V)	Vector Collapse Safety Factor												
33														

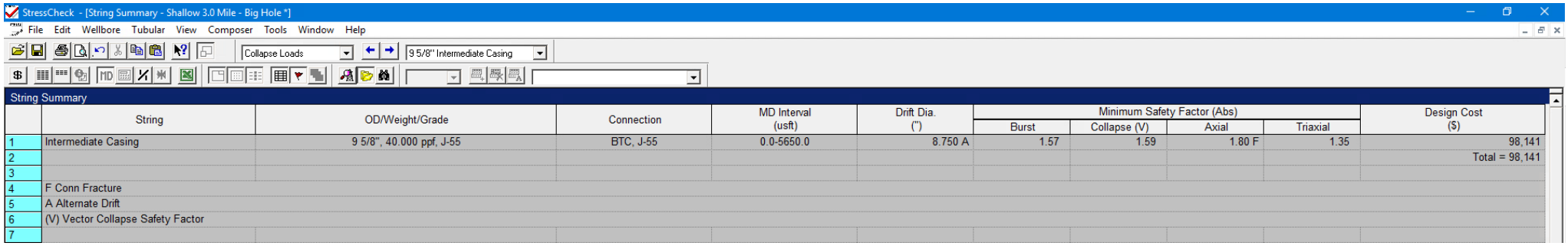
Working / Config / Min SF / Load/SF / DF Summary / VME / Wallplot

For Help, press F1

Default Datum @ 0.00 usft | API - US Survey Feet | jqriffin2

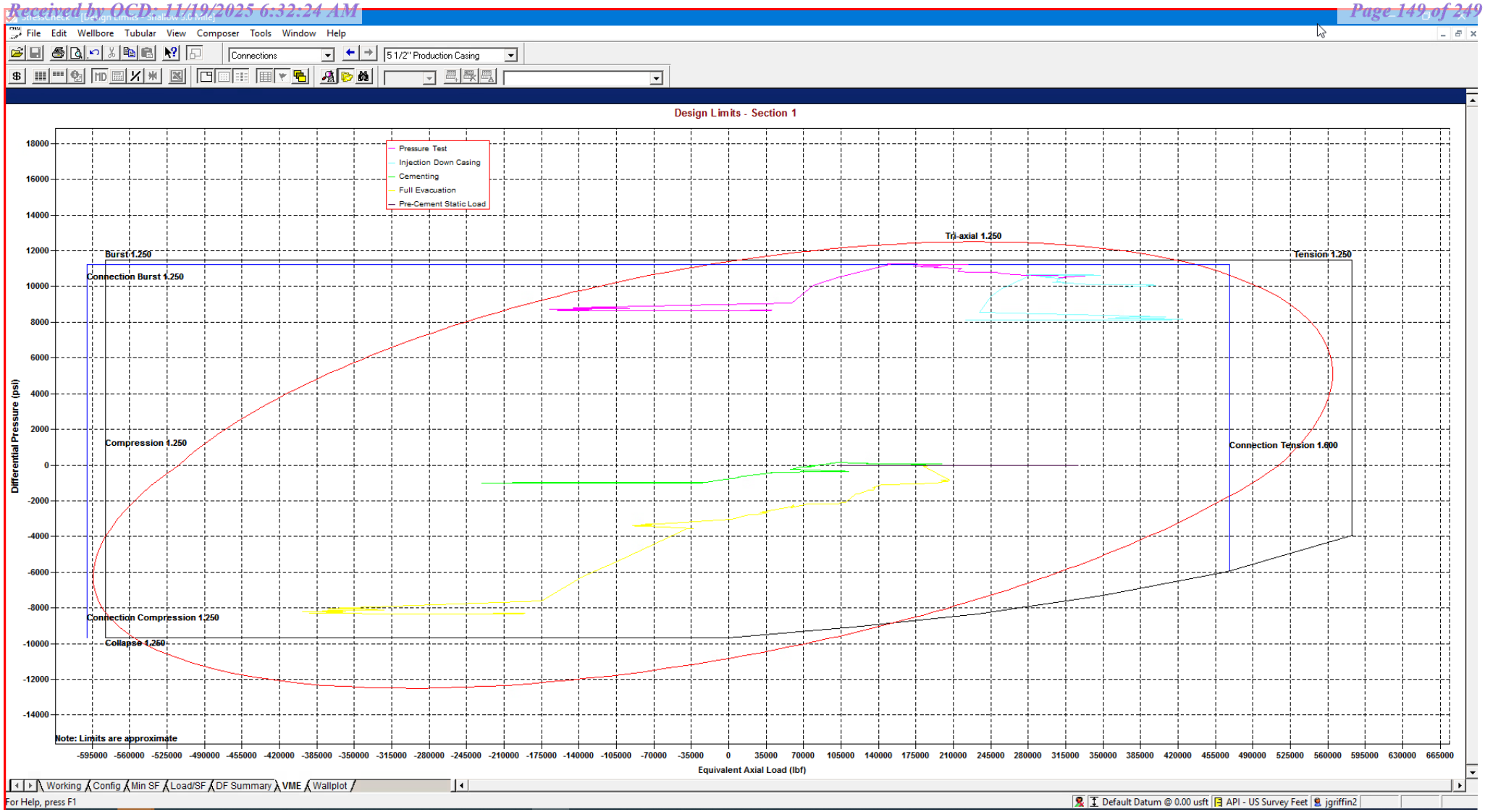
9-5/8” Intermediate Casing Pressure Test:
Internal Profile based off Surface Pressure + Hydrostatic: 4589 psi
External Profile based off Pore Pressure: 2188 psi

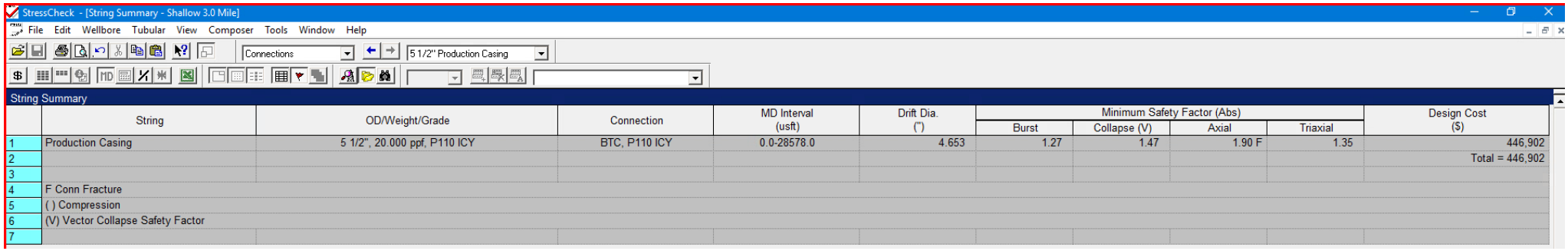




	String	OD/Weight/Grade	Connection	MD Interval (usft)	Drift Dia. (")	Minimum Safety Factor (Abs)				Design Cost ($)
						Burst	Collapse (V)	Axial	Triaxial	
1	Intermediate Casing	9 5/8", 40.000 ppf, J-55	BTC, J-55	0.0-5650.0	8.750 A	1.57	1.59	1.80 F	1.35	98,141
2										Total = 98,141
3										
4	F Conn Fracture									
5	A Alternate Drift									
6	(V) Vector Collapse Safety Factor									
7										

*Modelling done with 9-5/8" 40# Intermediate Casing. Passes all Burst, Collapse and Tensile design criteria.





	String	OD/Weight/Grade	Connection	MD Interval (usft)	Drift Dia. (")	Minimum Safety Factor (Abs)				Design Cost ($)
						Burst	Collapse (V)	Axial	Triaxial	
1	Production Casing	5 1/2", 20.000 ppf, P110 ICY	BTC, P110 ICY	0.0-28578.0	4.653	1.27	1.47	1.90 F	1.35	446,902
2										Total = 446,902
3										
4	F Conn Fracture									
5	( ) Compression									
6	(V) Vector Collapse Safety Factor									
7										

*Modelling done with 5-1/2" 20# Production Casing with a 125ksi Control Yield. Passes all Burst, Collapse and Tensile design criteria.

eog resources

Shallow Design B

4. CASING PROGRAM

Hole Size	Interval MD From (ft)	Interval MD To (ft)	Interval TVD From (ft)	Interval TVD To (ft)	Csg OD	Weight	Grade	Conn
13-1/2"	0	2,161	0	2,030	10-3/4"	40.5#	J-55	STC
9-7/8"	0	7,951	0	5,650	8-5/8"	32#	J-55	BTC-SC
6-3/4"	0	29,353	0	12,000	5-1/2"	20#	P110-EC	DWC/C IS MS

Hole will be full during casing run for well control and tensile SF factor. Casing will be kept at least half full during run for this design to meet BLM collapse SF requirement. External pressure will be reviewed prior to conducting casing pressure tests to ensure that 70% of the yield is not exceeded.

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 Title 43 CFR Part 3170 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.

5. CEMENTING PROGRAM:

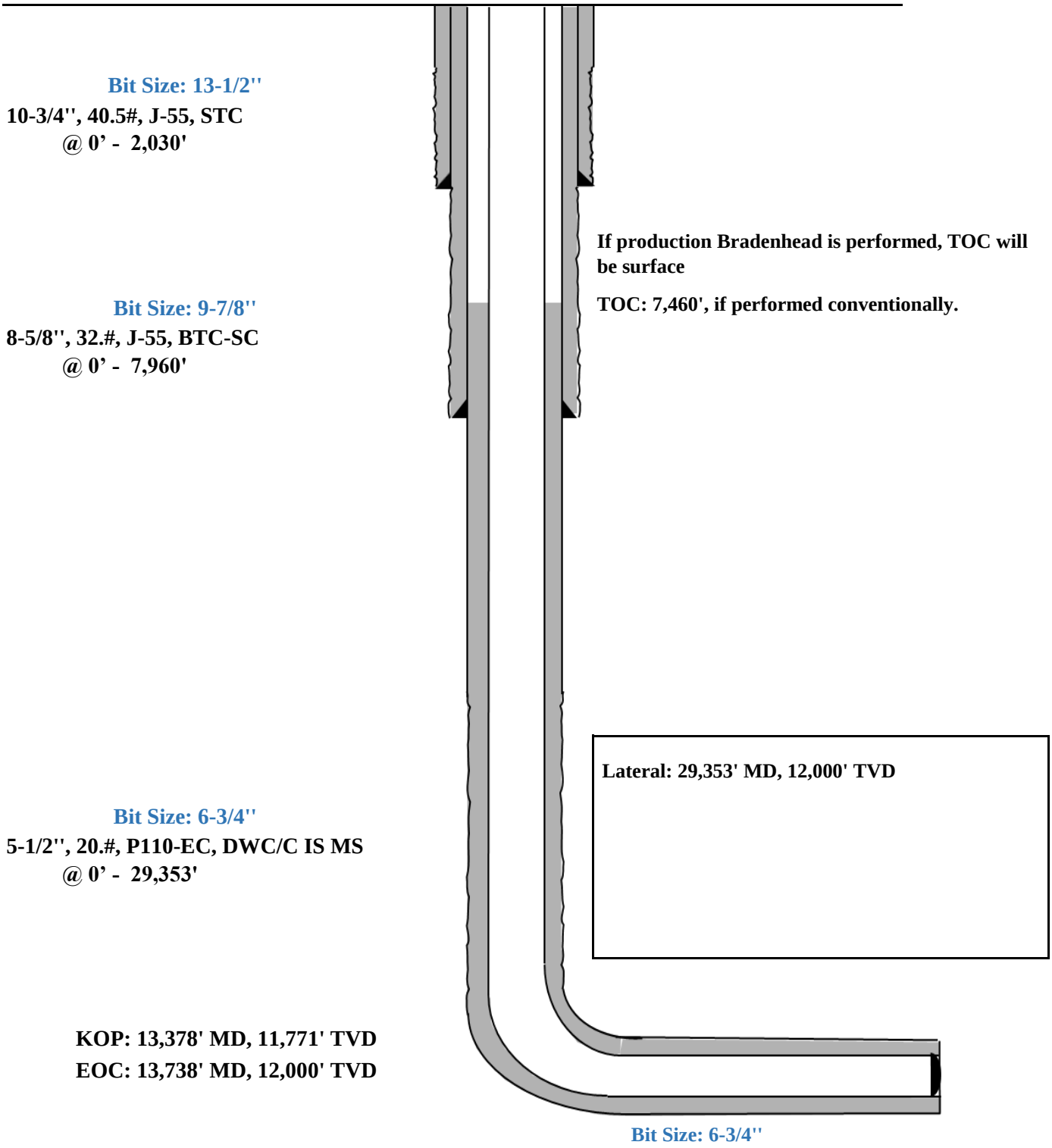
Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
2,030' 10-3/4"	530	13.5	1.73	Lead: Class C/H + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	140	14.8	1.34	Tail: Class C/H + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1830')
8,050' 8-5/8"	470	12.7	2.22	Lead: Class C/H + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	210	14.8	1.32	Tail: Class C/H + 10% NaCL + 3% MagOx (TOC @ 6360')
29,353' 5-1/2"	1000	14.8	1.32	Bradenhead squeeze: Class C/H + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
	1480	13.2	1.52	Tail: Class C/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 @ Top of Brushy)

eog resources

Shallow Casing Design B

Proposed Wellbore

KB: 3558'
GL: 3533'



StressCheck - [Triaxial Results - Shallow 3.0 Mile *]

File Edit Wellbore Tubular View Composer Tools Window Help

Burst Design | 8 5/8" Intermediate Casing | Pressure Test

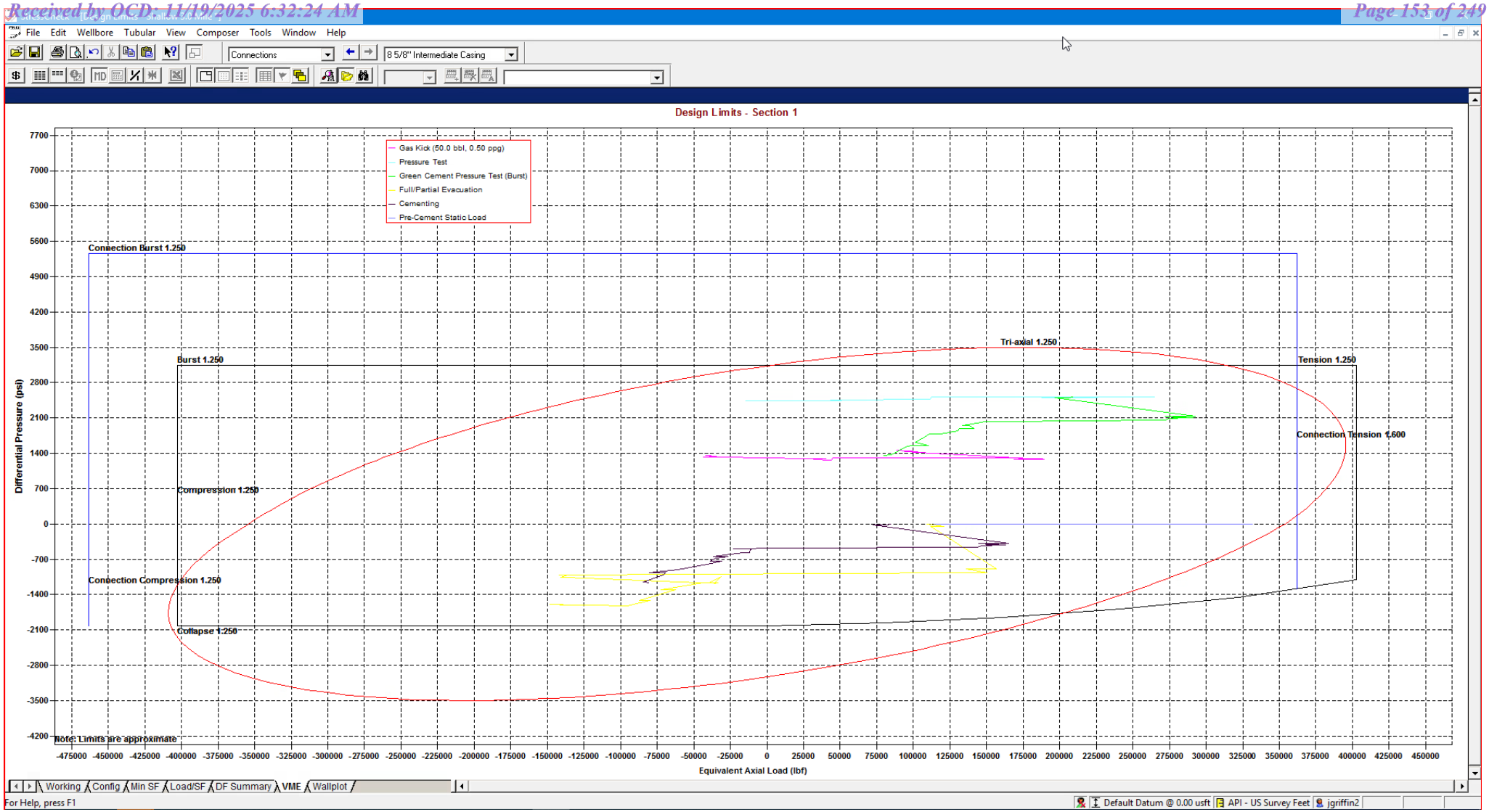
Triaxial Results

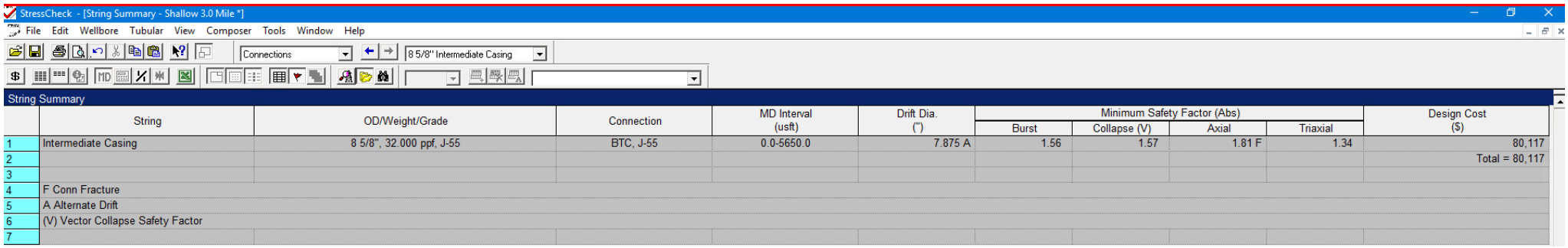
	Depth (MD) (usft)	Axial Force (lbf) Apparent (w/Bending)	Axial Force (lbf) Actual (w/o Bending)	Equivalent Axial Load (lbf)	Bending Stress at OD (psi)	Absolute Safety Factor Triaxial	Absolute Safety Factor Burst	Absolute Safety Factor Collapse (V)	Absolute Safety Factor Axial	Temperature (°F)	Pressure (psi) Internal	Pressure (psi) External	Addt'l Pickup To Prevent Buck. (lbf)	Buckled Length (usft)
1	0	200426	183224	200546	1880.2	1.68	1.57	N/A	2.89 F	70.00	2500.00	0.00	N/A	N/A
2	100	196229	179028	196812	1880.2	1.69	1.57	N/A	2.95 F	71.10	2543.63	43.63		
3	100	187111	179027	187686	883.7	1.70	1.57	N/A	3.10 F	71.10	2543.64	43.64		
4	1700	256401	111891	264835	15795.8	1.56	1.56	N/A	2.26 F	88.70	3241.64	741.64		
5	1700	235940	111891	244247	13559.4	1.60	1.56	N/A	2.45 F	88.70	3241.65	741.65		
6	1850	252413	105788	261533	16027.0	1.54	1.56	N/A	2.29 F	90.29	3305.05	805.05		
7	1850	239292	105787	248323	14592.9	1.56	1.56	N/A	2.42 F	90.29	3305.06	805.06		
8	1950	240267	101966	249748	15117.2	1.54	1.56	N/A	2.41 F	91.30	3344.87	844.87		
9	1950	234781	101965	244223	14517.5	1.56	1.56	N/A	2.47 F	91.30	3344.87	844.87		
10	2050	230871	98395	240694	14480.4	1.55	1.56	N/A	2.51 F	92.23	3381.89	881.89		
11	2050	227794	98394	237594	14144.2	1.55	1.56	N/A	2.54 F	92.23	3381.89	881.89		
12	2300	117966	90294	127818	3024.7	1.70	1.56	N/A	4.91 F	94.35	3466.13	966.13		
13	2300	104686	90293	114432	1573.2	1.71	1.56	N/A	5.53 F	94.35	3466.14	966.14		
14	2370	102469	88077	112431	1573.2	1.71	1.56	N/A	5.65 F	94.94	3489.28	989.28		
15	2370	100817	86424	111200	1573.2	1.75	1.59	N/A	5.75 F	94.94	3489.29	1036.40		
16	2700	83660	75583	95052	882.8	1.74	1.59	N/A	6.92 F	97.73	3599.97	1152.35		
17	2700	88072	75583	99504	1365.1	1.74	1.59	N/A	6.58 F	97.73	3599.97	1152.35		
18	3100	86049	62442	98863	2580.4	1.71	1.59	N/A	6.73 F	101.11	3734.23	1293.00		
19	3100	76477	62441	89195	1534.2	1.72	1.59	N/A	7.57 F	101.11	3734.23	1293.01		
20	3700	55953	42882	70509	1428.8	1.69	1.60	N/A	10.35 F	106.15	3934.24	1502.54		
21	3700	48311	42881	62778	593.5	1.71	1.60	N/A	11.99 F	106.16	3934.25	1502.55		
22	4000	41458	33043	56865	919.9	1.69	1.60	N/A	13.97 F	108.69	4034.82	1607.91		
23	4650	26293	11655	43706	1600.1	1.63	1.60	N/A	22.03 F	114.20	4253.37	1836.86		
24	4900	32619	4156	50970	3111.2	1.59	1.60	N/A	17.76 F	116.32	4337.37	1924.87		
25	4900	21439	4155	39625	1889.2	1.61	1.60	N/A	27.02 F	116.32	4337.38	1924.87		
26	5039	15822	26	34389	1726.6	1.61	1.61	N/A	36.61 F	117.49	4383.77	1973.48		
27	5039	15822	26	34388	1726.6	1.61	1.61	N/A	36.61 F	117.49	4383.78	1973.49		
28	5600	-33912	-16743	-14286	1876.7	1.57	1.61	N/A	(14.60)	122.23	4572.11	2170.78		
29	5650	-30585	-18235	-10742	1350.0	1.58	1.61	N/A	(16.18)	122.66	4588.87	2188.34		
30														
31	F	Conn Fracture												
32	( )	Compression												
33	(V)	Vector Collapse Safety Factor												
34														

Working | Config | Min SF | Load/SF | DF Summary | VME | Wallplot

For Help, press F1 | Default Datum @ 0.00 usft | API - US Survey Feet | jgriffin2

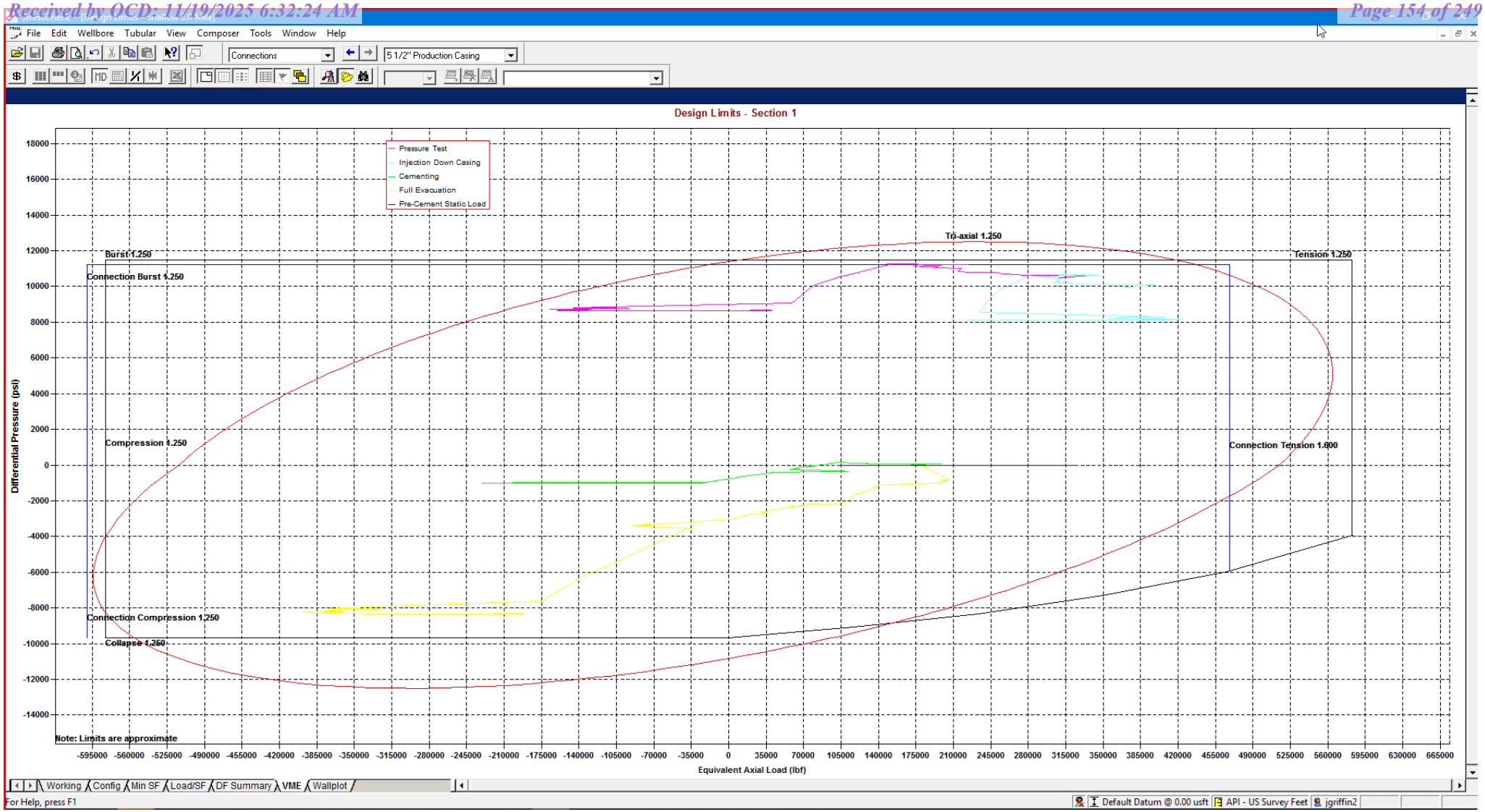
8-5/8" Intermediate Casing Pressure Test:
Internal Profile based off Surface Pressure + Hydrostatic: 4589 psi
External Profile based off Pore Pressure: 2188 psi

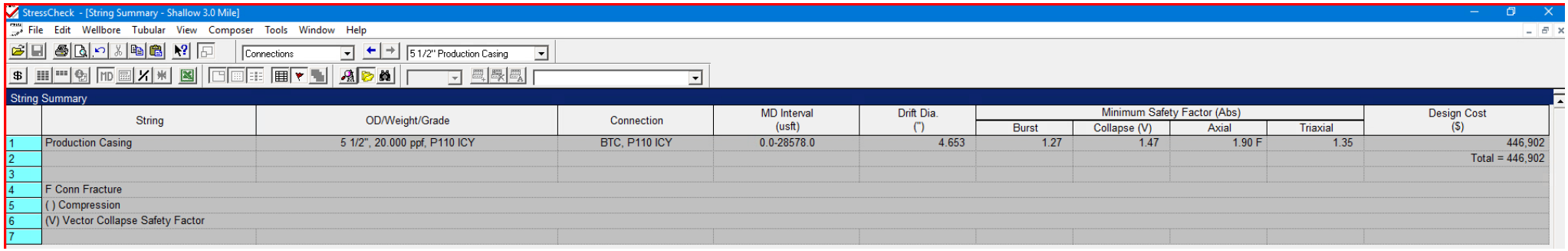




	String	OD/Weight/Grade	Connection	MD Interval (usft)	Drift Dia. (")	Minimum Safety Factor (Abs)				Design Cost ($)
						Burst	Collapse (V)	Axial	Triaxial	
1	Intermediate Casing	8 5/8", 32.000 ppf, J-55	BTC, J-55	0.0-5650.0	7.875 A	1.56	1.57	1.81 F	1.34	80,117
2										Total = 80,117
3										
4	F Conn Fracture									
5	A Alternate Drift									
6	(V) Vector Collapse Safety Factor									
7										

*Modelling done with 8-5/8" 32# Intermediate Casing. Passes all Burst, Collapse and Tensile design criteria.





	String	OD/Weight/Grade	Connection	MD Interval (usft)	Drift Dia. (")	Minimum Safety Factor (Abs)				Design Cost ($)
						Burst	Collapse (V)	Axial	Triaxial	
1	Production Casing	5 1/2", 20.000 ppf, P110 ICY	BTC, P110 ICY	0.0-28578.0	4.653	1.27	1.47	1.90 F	1.35	446,902
2										Total = 446,902
3										
4	F Conn Fracture									
5	( ) Compression									
6	(V) Vector Collapse Safety Factor									
7										

*Modelling done with 5-1/2" 20# Production Casing with a 125ksi Control Yield. Passes all Burst, Collapse and Tensile design criteria.

eog resources

Shallow Design C

4. CASING PROGRAM

Hole Size	Interval MD From (ft)	Interval MD To (ft)	Interval TVD From (ft)	Interval TVD To (ft)	Csg OD	Weight	Grade	Conn
16"	0	2,161	0	2,030	13-3/8"	54.5#	J-55	STC
11"	0	7,951	0	5,650	9-5/8"	40#	J-55	LTC
7-7/8"	0	29,353	0	12,000	6"	24.5#	P110-EC	VAM Sprint-SF

Hole will be full during casing run for well control and tensile SF factor. Casing will be kept at least half full during run for this design to meet BLM collapse SF requirement. External pressure will be reviewed prior to conducting casing pressure tests to ensure that 70% of the yield is not exceeded.

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 6" casing in the 7-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 7-7/8" 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 Title 43 CFR Part 3170 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.

5. CEMENTING PROGRAM:

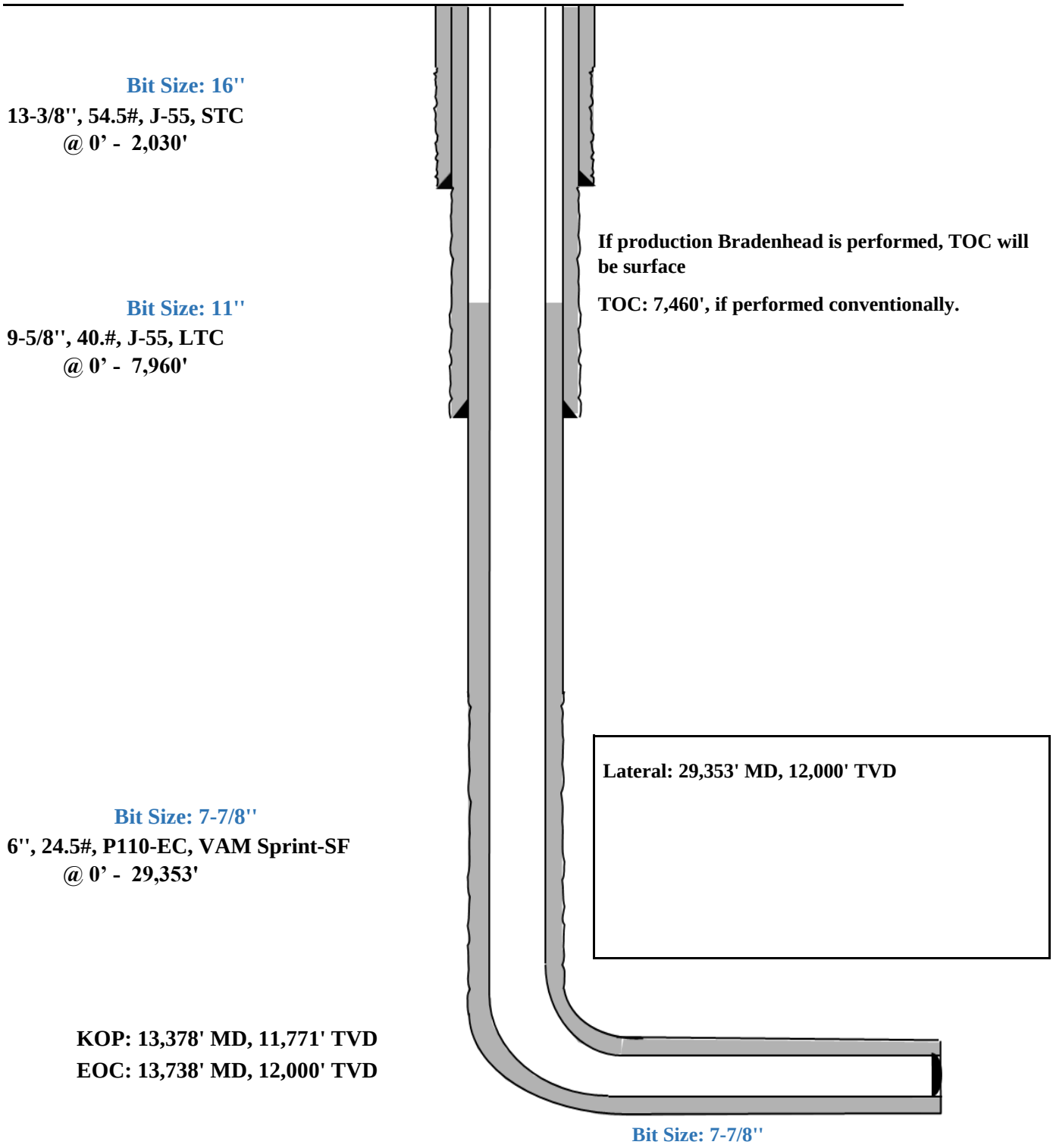
Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
2,030' 13-3/8"	570	13.5	1.73	Lead: Class C/H + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C/H + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1830')
8,050' 9-5/8"	760	12.7	2.22	Lead: Class C/H + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	250	14.8	1.32	Tail: Class C/H + 10% NaCL + 3% MagOx (TOC @ 6360')
29,353' 6"	1000	14.8	1.32	Bradenhead squeeze: Class C/H + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
	2500	13.2	1.52	Tail: Class C/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 @ Top of Brushy)

eog resources

Shallow Design C

Proposed Wellbore

KB: 3558'
GL: 3533'



Stresscheck - [Triaxial Results - Shallow 3.0 Mile - Big Hole]

File Edit Wellbore Tubular View Composer Tools Window Help

9 5/8" Intermediate Casing

Pressure Test

Triaxial Results

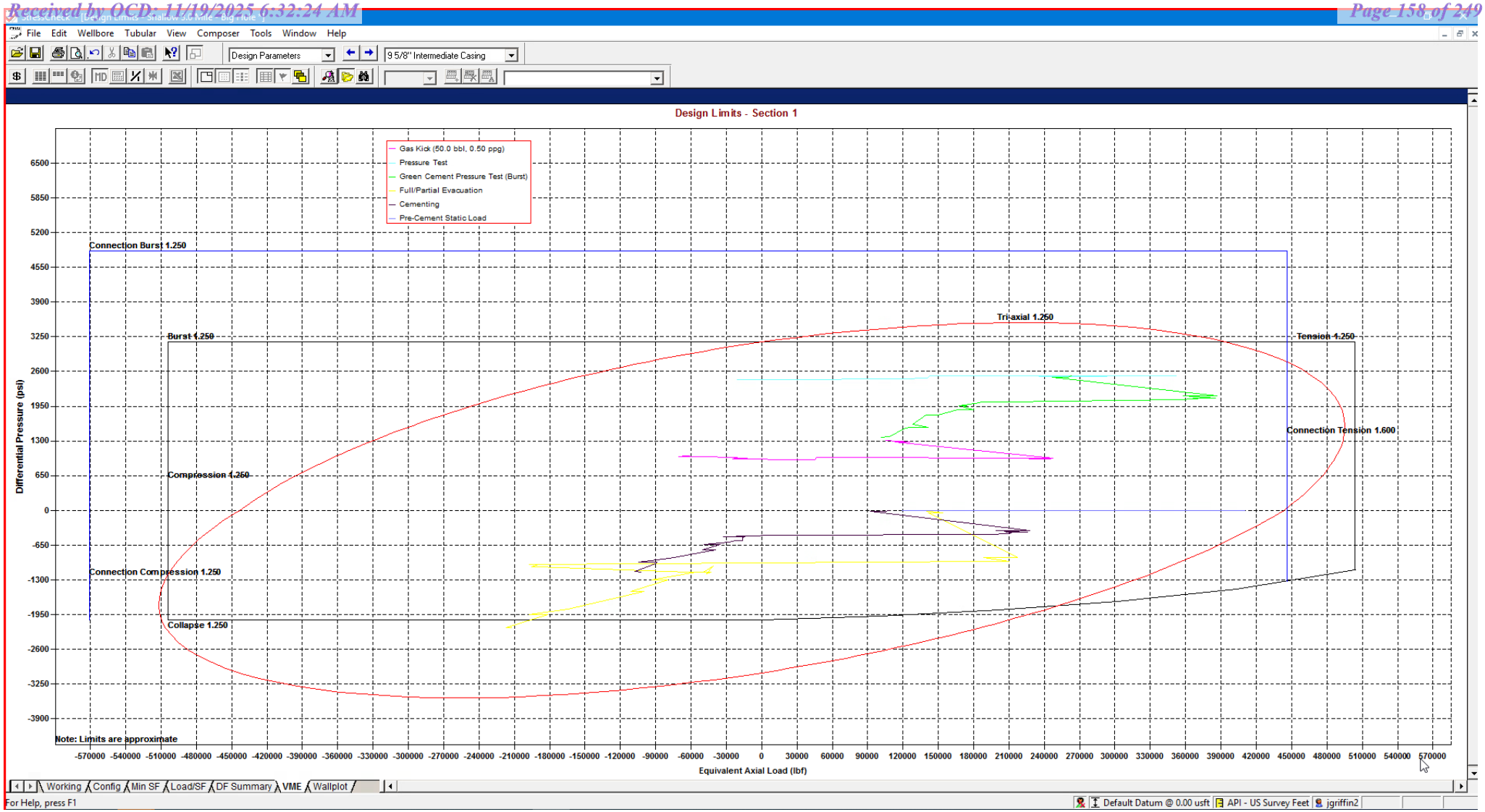
	Depth (MD) (usft)	Axial Force (lbf) Apparent (w/Bending)	Axial Force (lbf) Actual (w/o Bending)	Equivalent Axial Load (lbf)	Bending Stress at OD (psi)	Absolute Safety Factor Triaxial	Absolute Safety Factor Burst	Absolute Safety Factor Collapse (V)	Absolute Safety Factor Axial	Temperature (°F)	Pressure (psi) Internal	Pressure (psi) External	Addt'l Pickup To Prevent Buck. (lbf)	Buckled Length (usft)
1	0	252987	228954	253140	2098.2	1.69	1.58	N/A	2.82 F	70.00	2500.00	0.00	N/A	N/A
2	100	247735	223702	248466	2098.2	1.69	1.58	N/A	2.88 F	71.10	2543.63	43.63		
3	100	234996	223701	235716	986.2	1.71	1.58	N/A	3.04 F	71.10	2543.64	43.64		
4	1700	341565	139667	352253	17627.2	1.53	1.57	N/A	2.09 F	88.70	3241.64	741.64		
5	1700	312979	139666	323488	15131.5	1.58	1.57	N/A	2.28 F	88.70	3241.65	741.65		
6	1850	336881	132027	348440	17885.2	1.51	1.57	N/A	2.12 F	90.29	3305.05	805.05		
7	1850	318549	132027	329984	16284.8	1.54	1.57	N/A	2.24 F	90.29	3305.06	805.06		
8	1950	320468	127243	332475	16869.9	1.52	1.57	N/A	2.23 F	91.30	3344.87	844.87		
9	1950	312802	127243	324756	16200.7	1.53	1.57	N/A	2.28 F	91.30	3344.87	844.87		
10	2050	307858	122773	320295	16159.3	1.52	1.57	N/A	2.32 F	92.23	3381.89	881.89		
11	2050	303560	122772	315965	15784.1	1.53	1.57	N/A	2.35 F	92.23	3381.89	881.89		
12	2300	151294	112633	163658	3375.4	1.71	1.57	N/A	4.72 F	94.35	3466.13	966.13		
13	2300	132741	112633	144956	1755.6	1.72	1.57	N/A	5.38 F	94.35	3466.14	966.14		
14	2370	129966	109858	142452	1755.6	1.72	1.57	N/A	5.49 F	94.94	3489.28	989.28		
15	2370	127909	107800	140922	1755.6	1.75	1.60	N/A	5.58 F	94.94	3489.29	1036.40		
16	2700	105515	94232	119785	985.1	1.75	1.60	N/A	6.77 F	97.73	3599.97	1152.35		
17	2700	111680	94231	126006	1523.4	1.75	1.60	N/A	6.39 F	97.73	3599.97	1152.35		
18	3100	110766	77783	126839	2879.6	1.71	1.60	N/A	6.44 F	101.11	3734.23	1293.00		
19	3100	97392	77783	113331	1712.1	1.73	1.60	N/A	7.33 F	101.11	3734.23	1293.01		
20	3700	71565	53303	89806	1594.4	1.70	1.61	N/A	9.97 F	106.15	3934.24	1502.54		
21	3700	60887	53302	79004	662.3	1.71	1.61	N/A	11.72 F	106.16	3934.25	1502.55		
22	4650	34671	14219	56495	1785.6	1.64	1.61	N/A	20.59 F	114.20	4253.37	1836.86		
23	4900	44595	4828	67626	3472.0	1.59	1.61	N/A	16.01 F	116.32	4337.37	1924.87		
24	4900	28975	4828	51775	2108.2	1.62	1.61	N/A	24.64 F	116.32	4337.38	1924.87		
25	5029	22103	34	45340	1926.8	1.61	1.61	N/A	32.30 F	117.40	4380.40	1969.94		
26	5029	22102	33	45339	1926.8	1.61	1.61	N/A	32.30 F	117.40	4380.41	1969.95		
27	5600	-45329	-21341	-20805	2094.3	1.57	1.62	N/A	(13.67)	122.23	4572.11	2170.78		
28	5650	-40465	-23210	-15657	1506.5	1.58	1.62	N/A	(15.31)	122.66	4588.87	2188.34		
29														
30	F	Conn Fracture												
31	( )	Compression												
32	(V)	Vector Collapse Safety Factor												
33														

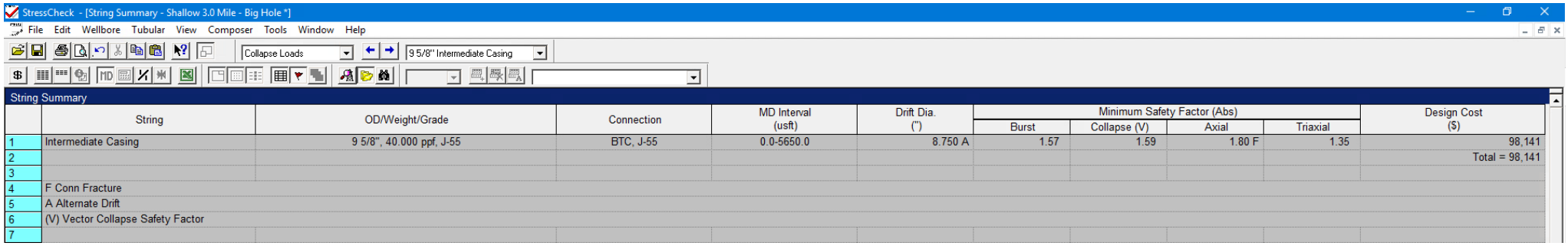
Working / Config / Min SF / Load/SF / DF Summary / VME / Wallplot

For Help, press F1

Default Datum @ 0.00 usft | API - US Survey Feet | jqriffin2

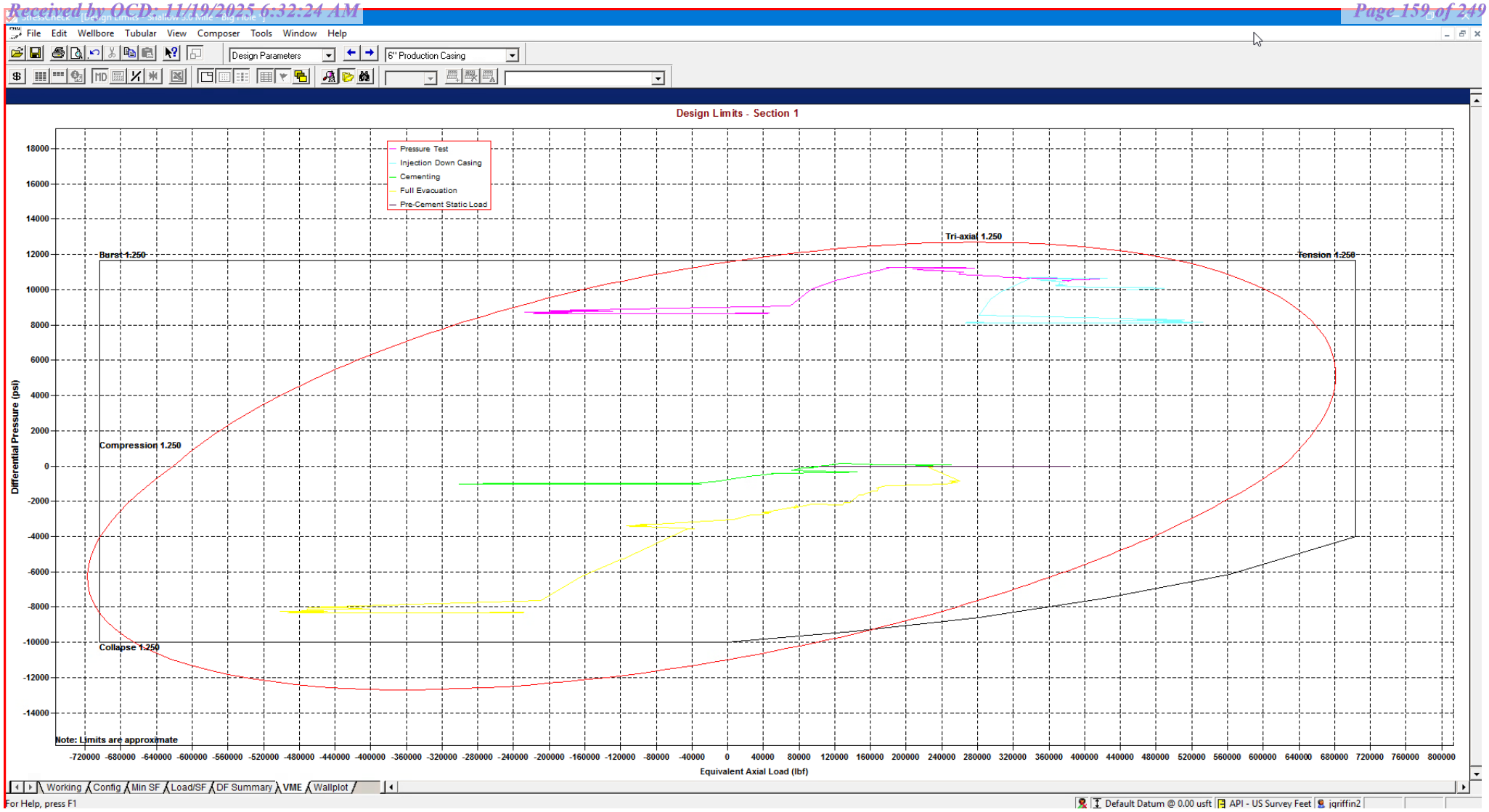
9-5/8" Intermediate Casing Pressure Test:
Internal Profile based off Surface Pressure + Hydrostatic: 4589 psi
External Profile based off Pore Pressure: 2188 psi

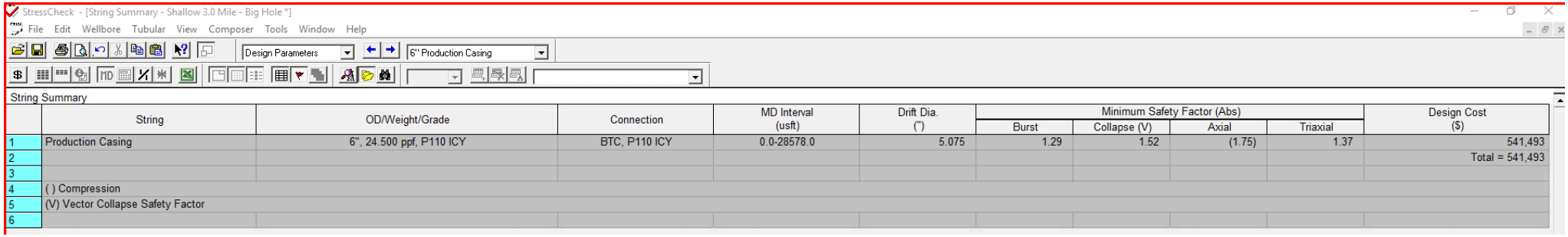




	String	OD/Weight/Grade	Connection	MD Interval (usft)	Drift Dia. (")	Minimum Safety Factor (Abs)				Design Cost ($)
						Burst	Collapse (V)	Axial	Triaxial	
1	Intermediate Casing	9 5/8", 40.000 ppf, J-55	BTC, J-55	0.0-5650.0	8.750 A	1.57	1.59	1.80 F	1.35	98,141
2										Total = 98,141
3										
4	F Conn Fracture									
5	A Alternate Drift									
6	(V) Vector Collapse Safety Factor									
7										

*Modelling done with 9-5/8" 40# Intermediate Casing. Passes all Burst, Collapse and Tensile design criteria.





String Summary

	String	OD/Weight/Grade	Connection	MD Interval (usft)	Drift Dia. (")	Minimum Safety Factor (Abs)				Design Cost ($)
						Burst	Collapse (V)	Axial	Triaxial	
1	Production Casing	6", 24.500 ppf, P110 ICY	BTC, P110 ICY	0.0-28578.0	5.075	1.29	1.52	(1.75)	1.37	541,493
2										Total = 541,493
3										
4	( ) Compression									
5	(V) Vector Collapse Safety Factor									
6										

*Modelling done with 6" Production Casing with a 125ksi Control Yield. Passes all Burst, Collapse and Tensile design criteria.

eog resources

Shallow Design D

4. CASING PROGRAM

Hole Size	Interval MD From (ft)	Interval MD To (ft)	Interval TVD From (ft)	Interval TVD To (ft)	Csg OD	Weight	Grade	Conn
16"	0	2,161	0	2,030	13-3/8"	54.5#	J-55	STC
11"	0	7,951	0	5,650	9-5/8"	40#	J-55	LTC
7-7/8"	0	13,278	0	11,671	6"	22.3#	P110-EC	DWC/C IS
6-3/4"	13,278	29,353	11,671	12,000	5-1/2"	20#	P110-EC	DWC/C IS MS

Hole will be full during casing run for well control and tensile SF factor. Casing will be kept at least half full during run for this design to meet BLM collapse SF requirement. External pressure will be reviewed prior to conducting casing pressure tests to ensure that 70% of the yield is not exceeded.

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 6" and 5-1/2" casings in the 7-7/8" and 6-3/4" hole sizes. An expansion additive will be utilized in the cement slurry for the entire length of the 7-7/8" and 6-3/4" hole intervals 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 Title 43 CFR Part 3170 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.

5. CEMENTING PROGRAM:

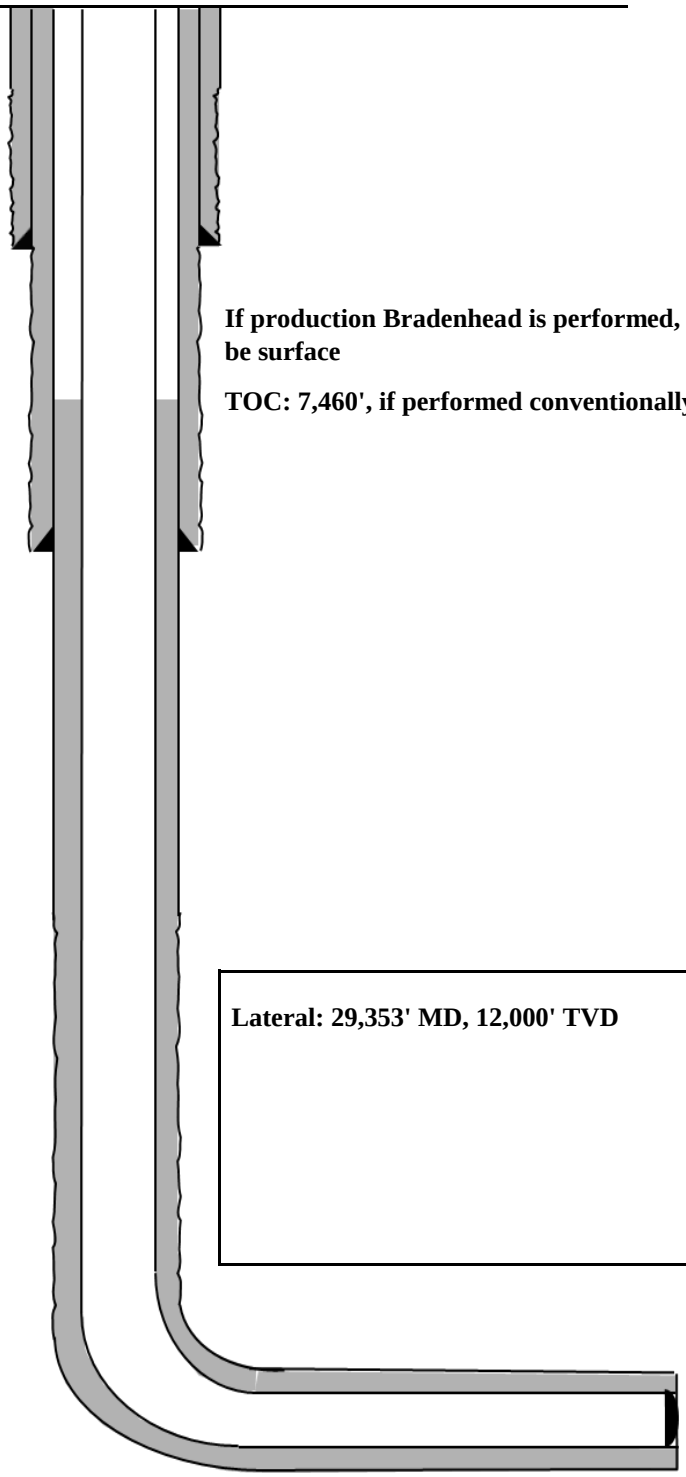
Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
2,030' 13-3/8"	570	13.5	1.73	Lead: Class C/H + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C/H + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1830')
8,050' 9-5/8"	760	12.7	2.22	Lead: Class C/H + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	250	14.8	1.32	Tail: Class C/H + 10% NaCL + 3% MagOx (TOC @ 6360')
29,353' 6"	1000	14.8	1.32	Bradenhead squeeze: Class C/H + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
	2500	13.2	1.52	Tail: Class C/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 @ Top of Brushy)

eog resources

Shallow Design D

Proposed Wellbore

KB: 3558'
GL: 3533'



Bit Size: 16''
13-3/8'', 54.5#, J-55, STC
@ 0' - 2,030'

If production Bradenhead is performed, TOC will be surface

TOC: 7,460', if performed conventionally.

Bit Size: 11''
9-5/8'', 40.#, J-55, LTC
@ 0' - 7,960'

Lateral: 29,353' MD, 12,000' TVD

Bit Size: 7-7/8''|Bit Size: 6-3/4''
6'', 22.3#, P110-EC, DWC/C IS
@ 0' - 11,671'

5-1/2'', 20.#, P110-EC, DWC/C IS MS
@ 11,671' - 29,353'

KOP: 13,378' MD, 11,771' TVD
EOC: 13,738' MD, 12,000' TVD

File Edit Wellbore Tubular View Composer Tools Window Help

9 5/8" Intermediate Casing

Pressure Test

Triaxial Results

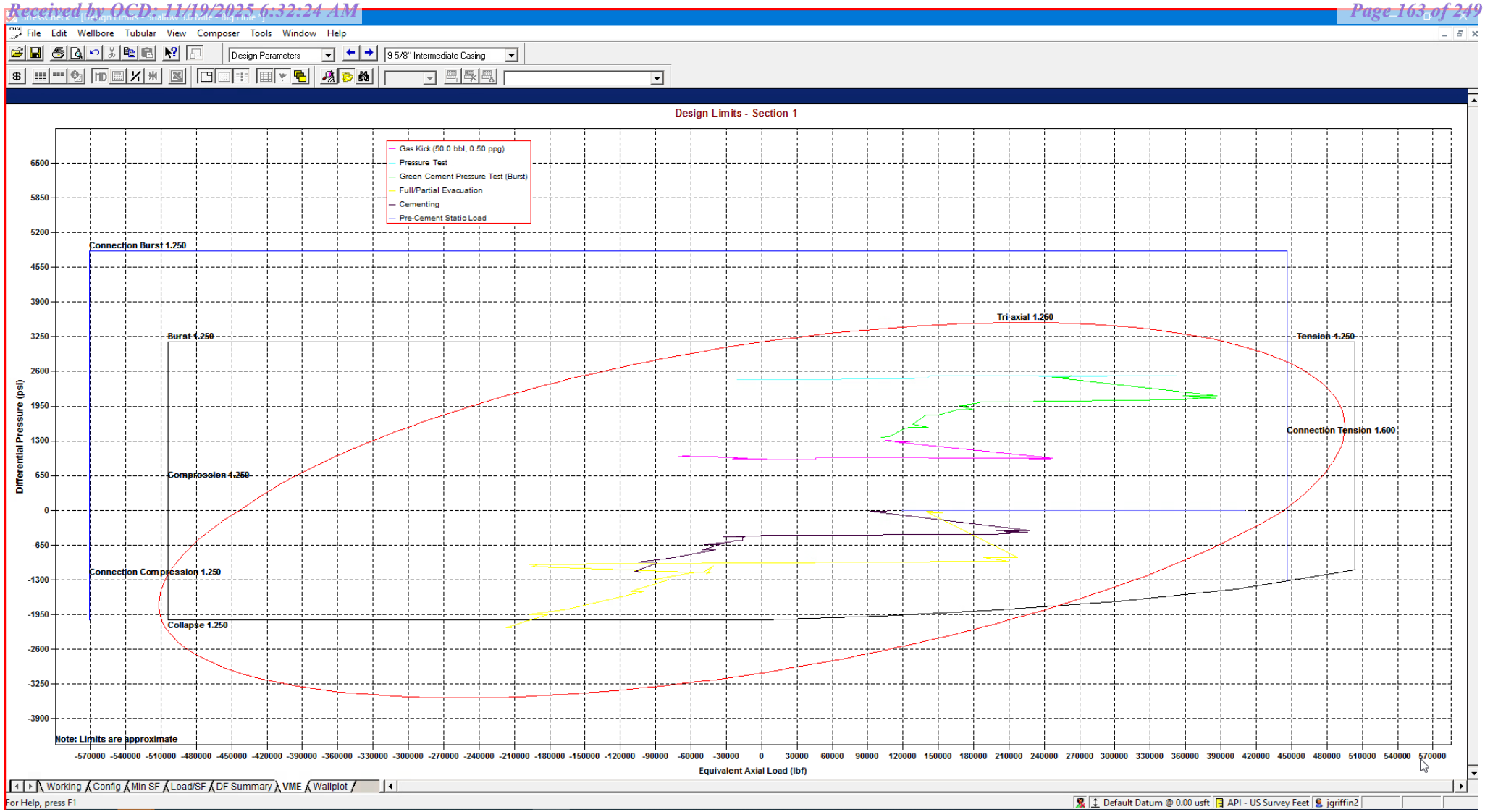
	Depth (MD) (usft)	Axial Force (lbf) Apparent (w/Bending)	Axial Force (lbf) Actual (w/o Bending)	Equivalent Axial Load (lbf)	Bending Stress at OD (psi)	Absolute Safety Factor Triaxial	Absolute Safety Factor Burst	Absolute Safety Factor Collapse (V)	Absolute Safety Factor Axial	Temperature (°F)	Pressure (psi) Internal	Pressure (psi) External	Addt'l Pickup To Prevent Buck. (lbf)	Buckled Length (usft)
1	0	252987	228954	253140	2098.2	1.69	1.58	N/A	2.82 F	70.00	2500.00	0.00	N/A	N/A
2	100	247735	223702	248466	2098.2	1.69	1.58	N/A	2.88 F	71.10	2543.63	43.63		
3	100	234996	223701	235716	986.2	1.71	1.58	N/A	3.04 F	71.10	2543.64	43.64		
4	1700	341565	139667	352253	17627.2	1.53	1.57	N/A	2.09 F	88.70	3241.64	741.64		
5	1700	312979	139666	323488	15131.5	1.58	1.57	N/A	2.28 F	88.70	3241.65	741.65		
6	1850	336881	132027	348440	17885.2	1.51	1.57	N/A	2.12 F	90.29	3305.05	805.05		
7	1850	318549	132027	329984	16284.8	1.54	1.57	N/A	2.24 F	90.29	3305.06	805.06		
8	1950	320468	127243	332475	16869.9	1.52	1.57	N/A	2.23 F	91.30	3344.87	844.87		
9	1950	312802	127243	324756	16200.7	1.53	1.57	N/A	2.28 F	91.30	3344.87	844.87		
10	2050	307858	122773	320295	16159.3	1.52	1.57	N/A	2.32 F	92.23	3381.89	881.89		
11	2050	303560	122772	315965	15784.1	1.53	1.57	N/A	2.35 F	92.23	3381.89	881.89		
12	2300	151294	112633	163658	3375.4	1.71	1.57	N/A	4.72 F	94.35	3466.13	966.13		
13	2300	132741	112633	144956	1755.6	1.72	1.57	N/A	5.38 F	94.35	3466.14	966.14		
14	2370	129966	109858	142452	1755.6	1.72	1.57	N/A	5.49 F	94.94	3489.28	989.28		
15	2370	127909	107800	140922	1755.6	1.75	1.60	N/A	5.58 F	94.94	3489.29	1036.40		
16	2700	105515	94232	119785	985.1	1.75	1.60	N/A	6.77 F	97.73	3599.97	1152.35		
17	2700	111680	94231	126006	1523.4	1.75	1.60	N/A	6.39 F	97.73	3599.97	1152.35		
18	3100	110766	77783	126839	2879.6	1.71	1.60	N/A	6.44 F	101.11	3734.23	1293.00		
19	3100	97392	77783	113331	1712.1	1.73	1.60	N/A	7.33 F	101.11	3734.23	1293.01		
20	3700	71565	53303	89806	1594.4	1.70	1.61	N/A	9.97 F	106.15	3934.24	1502.54		
21	3700	60887	53302	79004	662.3	1.71	1.61	N/A	11.72 F	106.16	3934.25	1502.55		
22	4650	34671	14219	56495	1785.6	1.64	1.61	N/A	20.59 F	114.20	4253.37	1836.86		
23	4900	44595	4828	67626	3472.0	1.59	1.61	N/A	16.01 F	116.32	4337.37	1924.87		
24	4900	28975	4828	51775	2108.2	1.62	1.61	N/A	24.64 F	116.32	4337.38	1924.87		
25	5029	22103	34	45340	1926.8	1.61	1.61	N/A	32.30 F	117.40	4380.40	1969.94		
26	5029	22102	33	45339	1926.8	1.61	1.61	N/A	32.30 F	117.40	4380.41	1969.95		
27	5600	-45329	-21341	-20805	2094.3	1.57	1.62	N/A	(13.67)	122.23	4572.11	2170.78		
28	5650	-40465	-23210	-15657	1506.5	1.58	1.62	N/A	(15.31)	122.66	4588.87	2188.34		
29														
30	F	Conn Fracture												
31	( )	Compression												
32	(V)	Vector Collapse Safety Factor												
33														

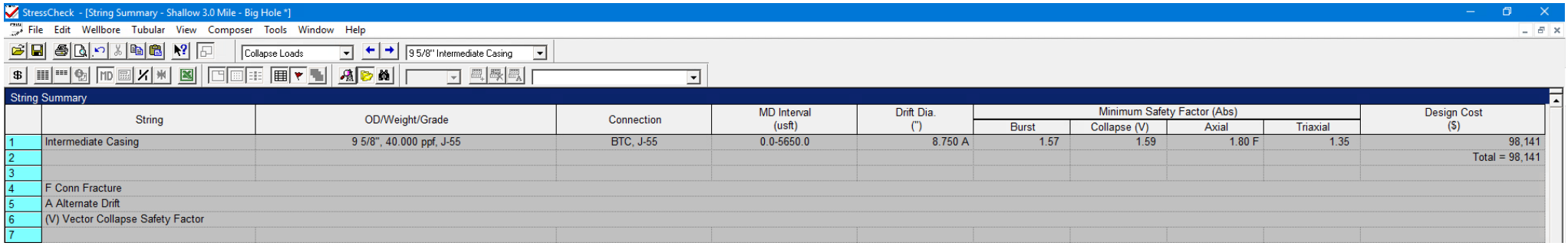
Working / Config / Min SF / Load/SF / DF Summary / VME / Wallplot

For Help, press F1

Default Datum @ 0.00 usft | API - US Survey Feet | jqriffin2

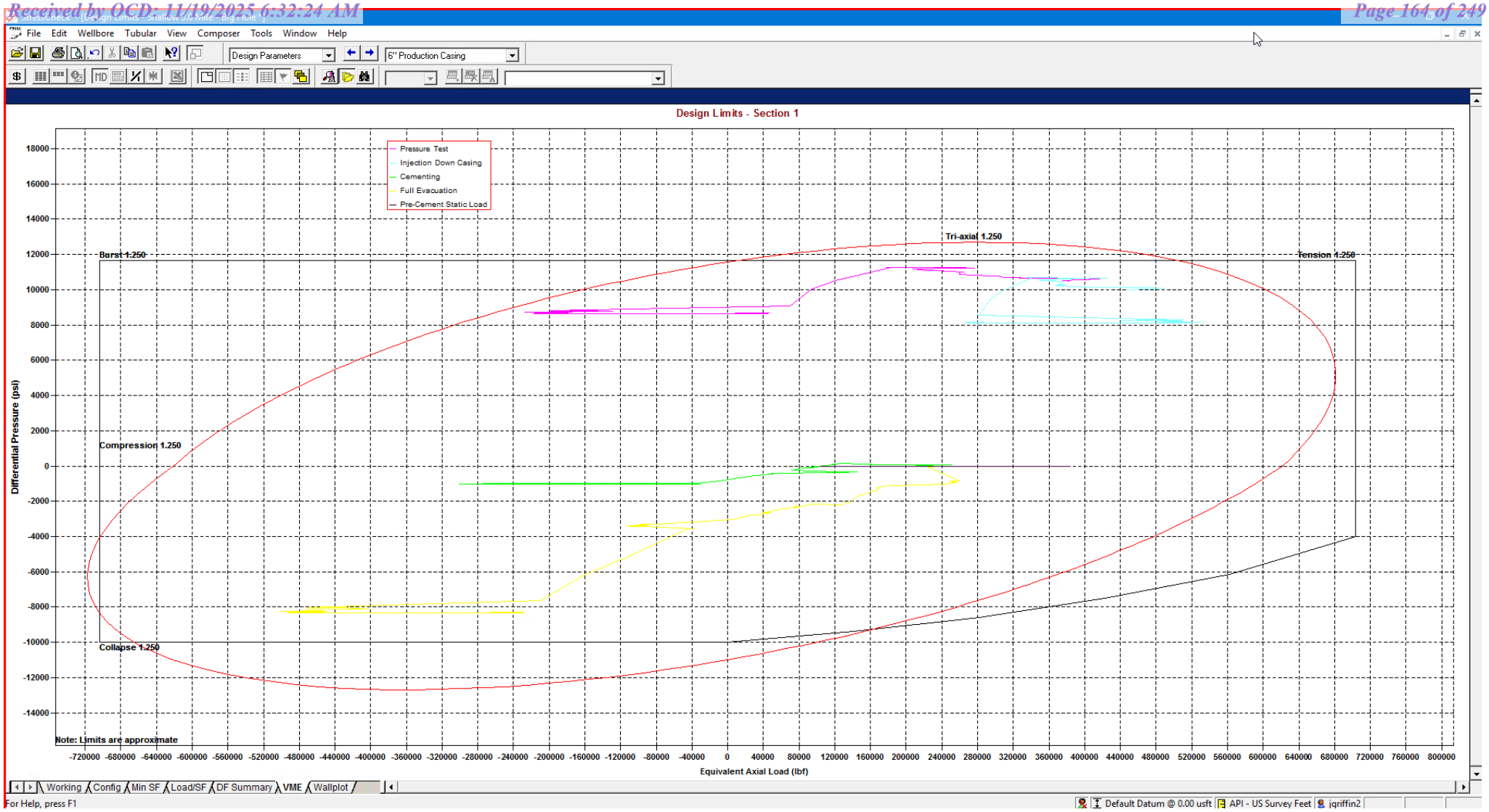
9-5/8" Intermediate Casing Pressure Test:
Internal Profile based off Surface Pressure + Hydrostatic: 4589 psi
External Profile based off Pore Pressure: 2188 psi

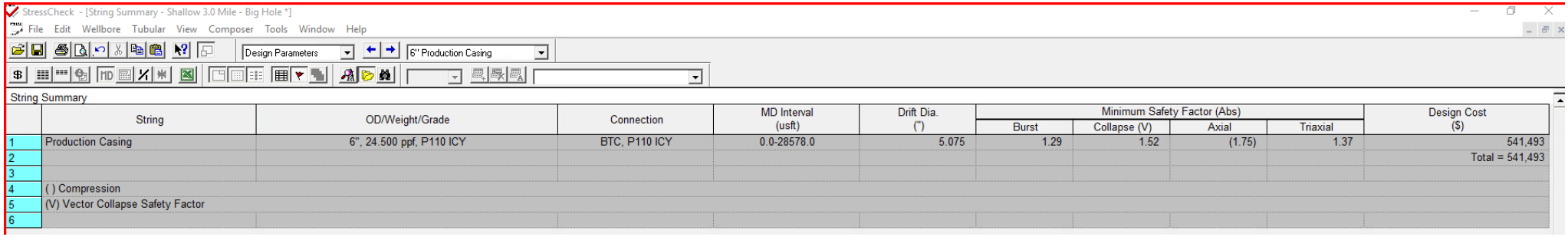




	String	OD/Weight/Grade	Connection	MD Interval (usft)	Drift Dia. (")	Minimum Safety Factor (Abs)				Design Cost ($)
						Burst	Collapse (V)	Axial	Triaxial	
1	Intermediate Casing	9 5/8", 40.000 ppf, J-55	BTC, J-55	0.0-5650.0	8.750 A	1.57	1.59	1.80 F	1.35	98,141
2										Total = 98,141
3										
4	F Conn Fracture									
5	A Alternate Drift									
6	(V) Vector Collapse Safety Factor									
7										

*Modelling done with 9-5/8" 40# Intermediate Casing. Passes all Burst, Collapse and Tensile design criteria.

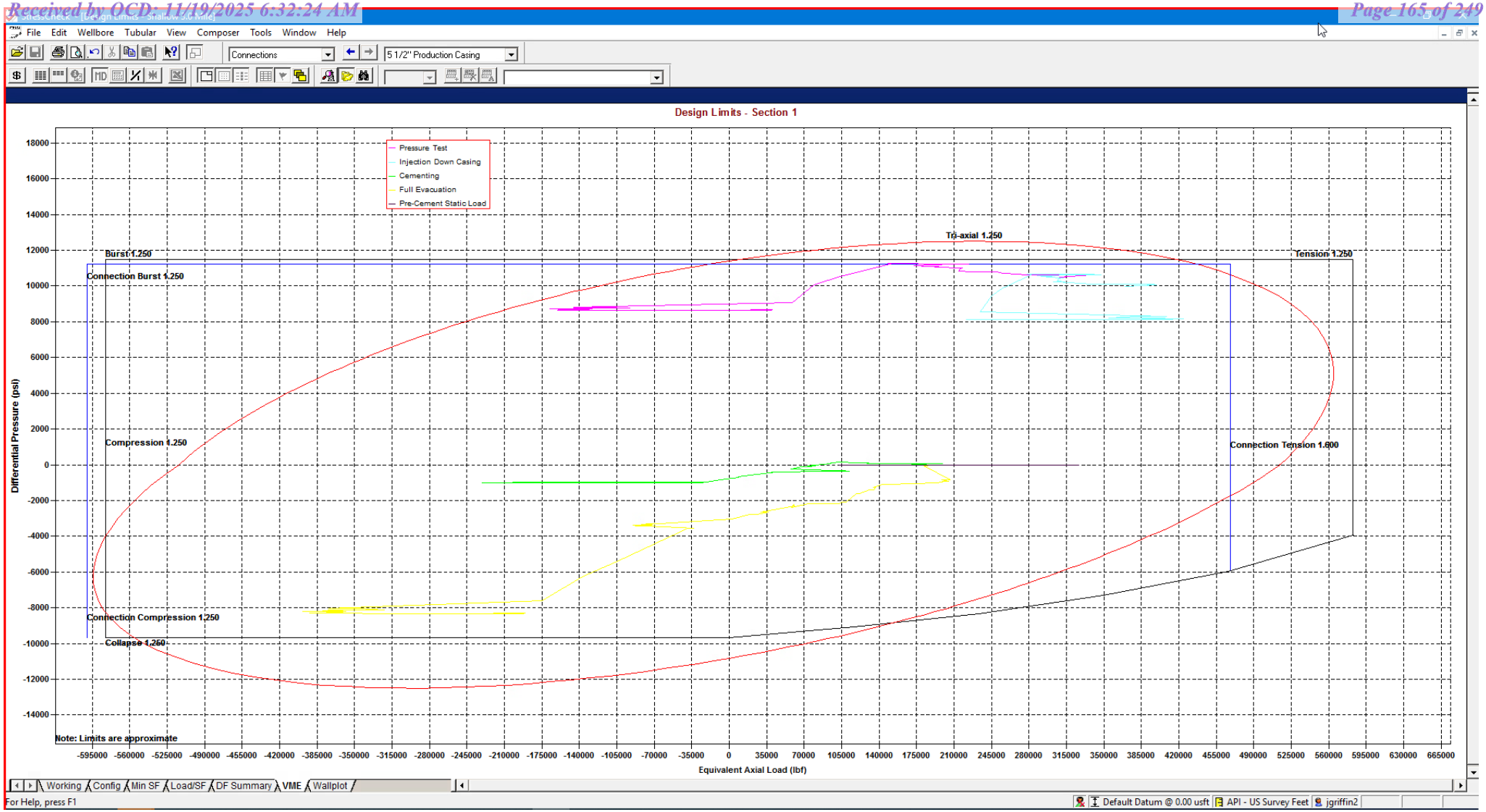


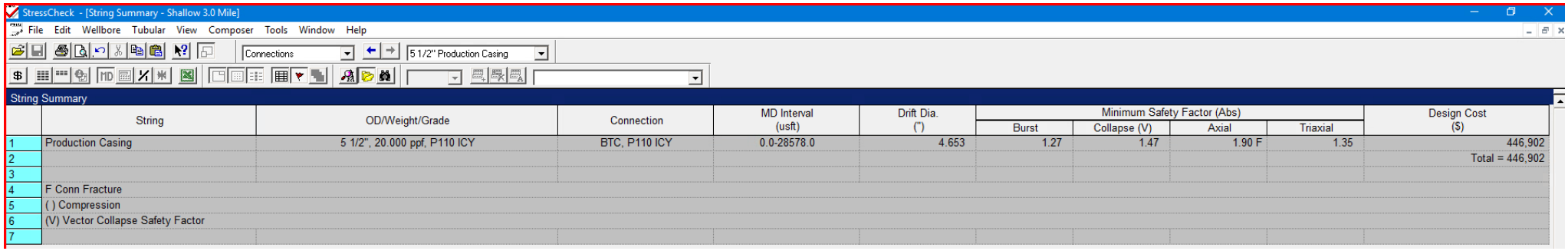


String Summary

	String	OD/Weight/Grade	Connection	MD Interval (usft)	Drift Dia. (")	Minimum Safety Factor (Abs)				Design Cost ($)
						Burst	Collapse (V)	Axial	Triaxial	
1	Production Casing	6", 24.500 ppf, P110 ICY	BTC, P110 ICY	0.0-28578.0	5.075	1.29	1.52	(1.75)	1.37	541,493
2										Total = 541,493
3										
4	( ) Compression									
5	(V) Vector Collapse Safety Factor									
6										

*Modelling done with 6" Production Casing with a 125ksi Control Yield. Passes all Burst, Collapse and Tensile design criteria.





	String	OD/Weight/Grade	Connection	MD Interval (usft)	Drift Dia. (")	Minimum Safety Factor (Abs)				Design Cost ($)
						Burst	Collapse (V)	Axial	Triaxial	
1	Production Casing	5 1/2", 20.000 ppf, P110 ICY	BTC, P110 ICY	0.0-28578.0	4.653	1.27	1.47	1.90 F	1.35	446,902
2										Total = 446,902
3										
4	F Conn Fracture									
5	( ) Compression									
6	(V) Vector Collapse Safety Factor									
7										

*Modelling done with 5-1/2" 20# Production Casing with a 125ksi Control Yield. Passes all Burst, Collapse and Tensile design criteria.

eog resources

Shallow Casing Design E

1. CASING PROGRAM

Hole Size	Interval MD From (ft)	Interval MD To (ft)	Interval TVD From (ft)	Interval TVD To (ft)	Csg OD	Weight	Grade	Conn
13"	0	2,025	0	2,025	10-3/4"	40.5#	J-55	STC
9-7/8"	0	7,793	0	5,645	8-5/8"	32#	J-55	BTC-SC
7-7/8"	0	12,626	0	10,896	6"	24.5#	P110-EC	VAM Sprint-TC
6-3/4"	12,626	28,578	10,896	11,225	5-1/2"	20#	P110-EC	VAM Sprint SF

**For highlighted rows above, variance is requested to run entire string of either 6'' or 5-1/2'' casing string above due to availablility.

Hole will be full during casing run for well control and tensile SF factor. Casing will be kept at least half full during run for this design to meet BLM collapse SF requirement. External pressure will be reviewed prior to conducting casing pressure tests to ensure that 70% of the yield is not exceeded.

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 6" and 5-1/2" casings in the 7-7/8" and 6-3/4" hole sizes. An expansion additive will be utilized in the cement slurry for the entire length of the 7-7/8" and 6-3/4" hole intervals 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 Title 43 CFR Part 3170 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:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
2,030' 10-3/4"	450	13.5	1.73	Lead: Class C/H + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	120	14.8	1.34	Tail: Class C/H + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1830')
7,890' 8-5/8"	460	12.7	2.22	Lead: Class C/H + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	210	14.8	1.32	Tail: Class C/H + 10% NaCL + 3% MagOx (TOC @ 6234')
28,578' 6"	1000	14.8	1.32	Bradenhead squeeze: Class C/H + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
	2410	13.2	1.52	Tail: Class C/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 @ 8140')

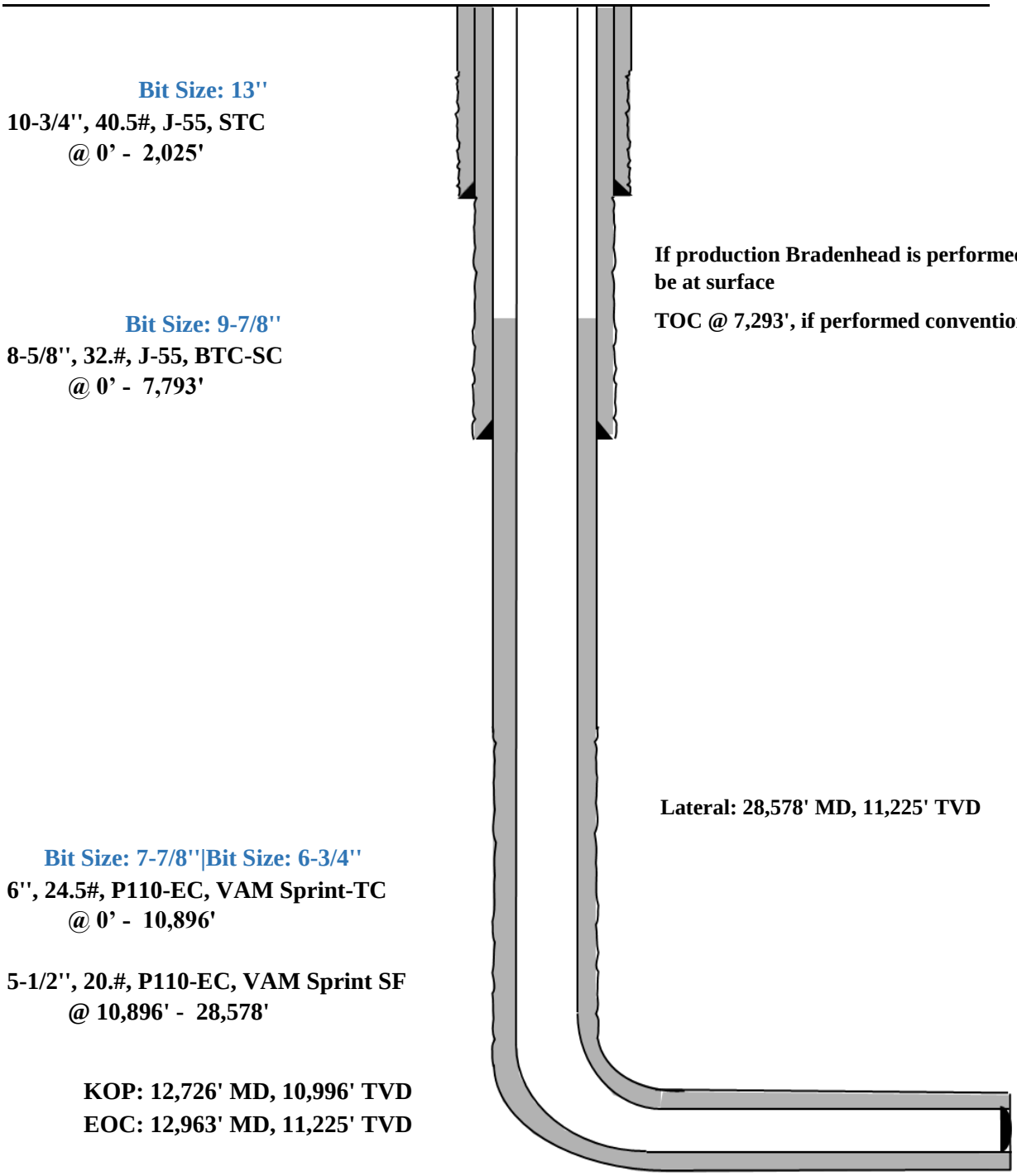
eog resources

Shallow Casing Design E

Proposed Wellbore

KB: 3558'
GL: 3533'

API: 30-025-***



Bit Size: 13''
10-3/4'', 40.5#, J-55, STC
@ 0' - 2,025'

If production Bradenhead is performed, TOC will be at surface

TOC @ 7,293', if performed conventionally.

Bit Size: 9-7/8''
8-5/8'', 32.#, J-55, BTC-SC
@ 0' - 7,793'

Lateral: 28,578' MD, 11,225' TVD

Bit Size: 7-7/8''|Bit Size: 6-3/4''
6'', 24.5#, P110-EC, VAM Sprint-TC
@ 0' - 10,896'

5-1/2'', 20.#, P110-EC, VAM Sprint SF
@ 10,896' - 28,578'

KOP: 12,726' MD, 10,996' TVD
EOC: 12,963' MD, 11,225' TVD

StressCheck - [Triaxial Results - Shallow 3.0 Mile *]

File Edit Wellbore Tubular View Composer Tools Window Help

Burst Design | 8 5/8" Intermediate Casing | Pressure Test

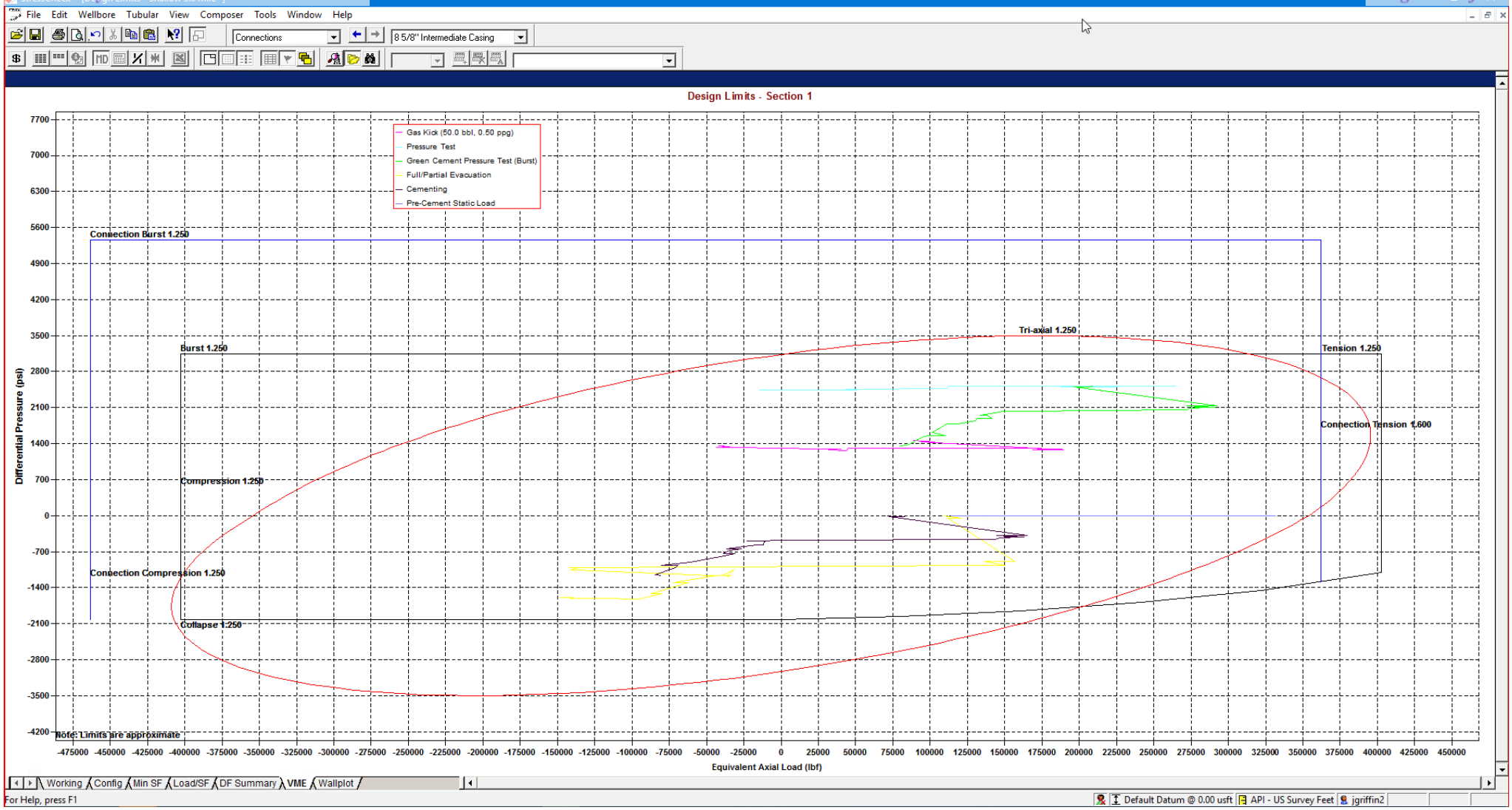
Triaxial Results

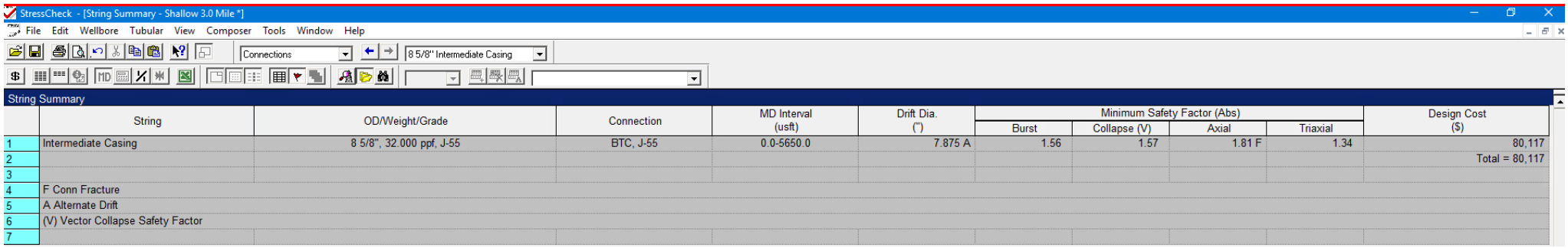
	Depth (MD) (usft)	Axial Force (lbf) Apparent (w/Bending)	Axial Force (lbf) Actual (w/o Bending)	Equivalent Axial Load (lbf)	Bending Stress at OD (psi)	Absolute Safety Factor Triaxial	Absolute Safety Factor Burst	Absolute Safety Factor Collapse (V)	Absolute Safety Factor Axial	Temperature (°F)	Pressure (psi) Internal	Pressure (psi) External	Addt'l Pickup To Prevent Buck. (lbf)	Buckled Length (usft)
1	0	200426	183224	200546	1880.2	1.68	1.57	N/A	2.89 F	70.00	2500.00	0.00	N/A	N/A
2	100	196229	179028	196812	1880.2	1.69	1.57	N/A	2.95 F	71.10	2543.63	43.63		
3	100	187111	179027	187686	883.7	1.70	1.57	N/A	3.10 F	71.10	2543.64	43.64		
4	1700	256401	111891	264835	15795.8	1.56	1.56	N/A	2.26 F	88.70	3241.64	741.64		
5	1700	235940	111891	244247	13559.4	1.60	1.56	N/A	2.45 F	88.70	3241.65	741.65		
6	1850	252413	105788	261533	16027.0	1.54	1.56	N/A	2.29 F	90.29	3305.05	805.05		
7	1850	239292	105787	248323	14592.9	1.56	1.56	N/A	2.42 F	90.29	3305.06	805.06		
8	1950	240267	101966	249748	15117.2	1.54	1.56	N/A	2.41 F	91.30	3344.87	844.87		
9	1950	234781	101965	244223	14517.5	1.56	1.56	N/A	2.47 F	91.30	3344.87	844.87		
10	2050	230871	98395	240694	14480.4	1.55	1.56	N/A	2.51 F	92.23	3381.89	881.89		
11	2050	227794	98394	237594	14144.2	1.55	1.56	N/A	2.54 F	92.23	3381.89	881.89		
12	2300	117966	90294	127818	3024.7	1.70	1.56	N/A	4.91 F	94.35	3466.13	966.13		
13	2300	104686	90293	114432	1573.2	1.71	1.56	N/A	5.53 F	94.35	3466.14	966.14		
14	2370	102469	88077	112431	1573.2	1.71	1.56	N/A	5.65 F	94.94	3489.28	989.28		
15	2370	100817	86424	111200	1573.2	1.75	1.59	N/A	5.75 F	94.94	3489.29	1036.40		
16	2700	83660	75583	95052	882.8	1.74	1.59	N/A	6.92 F	97.73	3599.97	1152.35		
17	2700	88072	75583	99504	1365.1	1.74	1.59	N/A	6.58 F	97.73	3599.97	1152.35		
18	3100	86049	62442	98863	2580.4	1.71	1.59	N/A	6.73 F	101.11	3734.23	1293.00		
19	3100	76477	62441	89195	1534.2	1.72	1.59	N/A	7.57 F	101.11	3734.23	1293.01		
20	3700	55953	42882	70509	1428.8	1.69	1.60	N/A	10.35 F	106.15	3934.24	1502.54		
21	3700	48311	42881	62778	593.5	1.71	1.60	N/A	11.99 F	106.16	3934.25	1502.55		
22	4000	41458	33043	56865	919.9	1.69	1.60	N/A	13.97 F	108.69	4034.82	1607.91		
23	4650	26293	11655	43706	1600.1	1.63	1.60	N/A	22.03 F	114.20	4253.37	1836.86		
24	4900	32619	4156	50970	3111.2	1.59	1.60	N/A	17.76 F	116.32	4337.37	1924.87		
25	4900	21439	4155	39625	1889.2	1.61	1.60	N/A	27.02 F	116.32	4337.38	1924.87		
26	5039	15822	26	34389	1726.6	1.61	1.61	N/A	36.61 F	117.49	4383.77	1973.48		
27	5039	15822	26	34388	1726.6	1.61	1.61	N/A	36.61 F	117.49	4383.78	1973.49		
28	5600	-33912	-16743	-14286	1876.7	1.57	1.61	N/A	(14.60)	122.23	4572.11	2170.78		
29	5650	-30585	-18235	-10742	1350.0	1.58	1.61	N/A	(16.18)	122.66	4588.87	2188.34		
30														
31	F	Conn Fracture												
32	( )	Compression												
33	(V)	Vector Collapse Safety Factor												
34														

Working | Config | Min SF | Load/SF | DF Summary | VME | Wallplot

For Help, press F1 | Default Datum @ 0.00 usft | API - US Survey Feet | jgriffin2

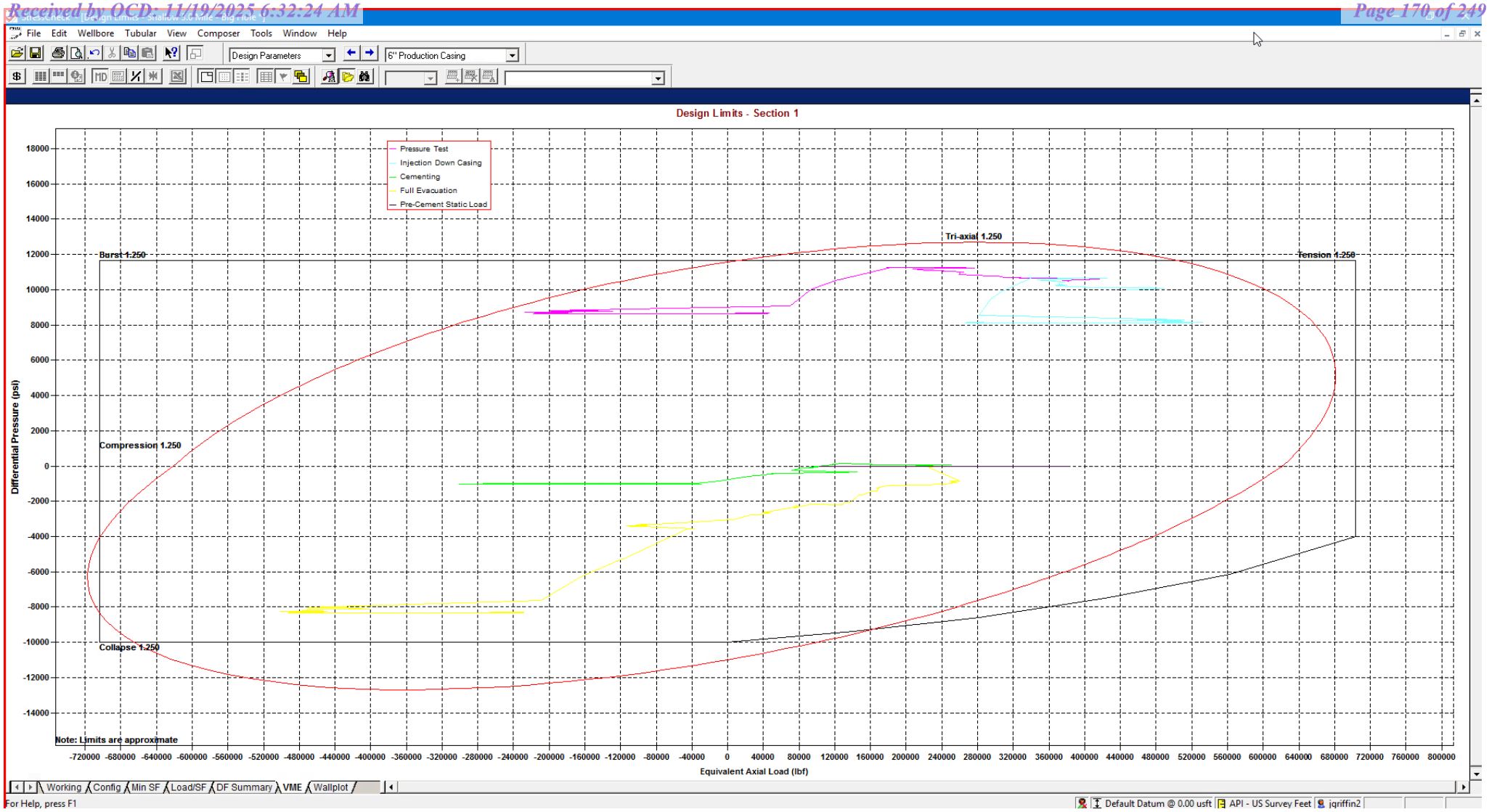
8-5/8" Intermediate Casing Pressure Test:
Internal Profile based off Surface Pressure + Hydrostatic: 4589 psi
External Profile based off Pore Pressure: 2188 psi

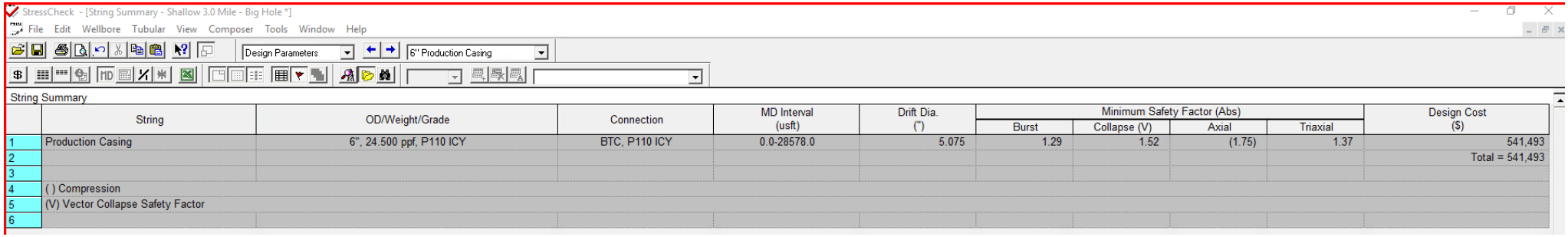




	String	OD/Weight/Grade	Connection	MD Interval (usft)	Drift Dia. (")	Minimum Safety Factor (Abs)				Design Cost ($)
						Burst	Collapse (V)	Axial	Triaxial	
1	Intermediate Casing	8 5/8", 32.000 ppf, J-55	BTC, J-55	0.0-5650.0	7.875 A	1.56	1.57	1.81 F	1.34	80,117
2										Total = 80,117
3										
4	F Conn Fracture									
5	A Alternate Drift									
6	(V) Vector Collapse Safety Factor									
7										

*Modelling done with 8-5/8" 32# Intermediate Casing. Passes all Burst, Collapse and Tensile design criteria.



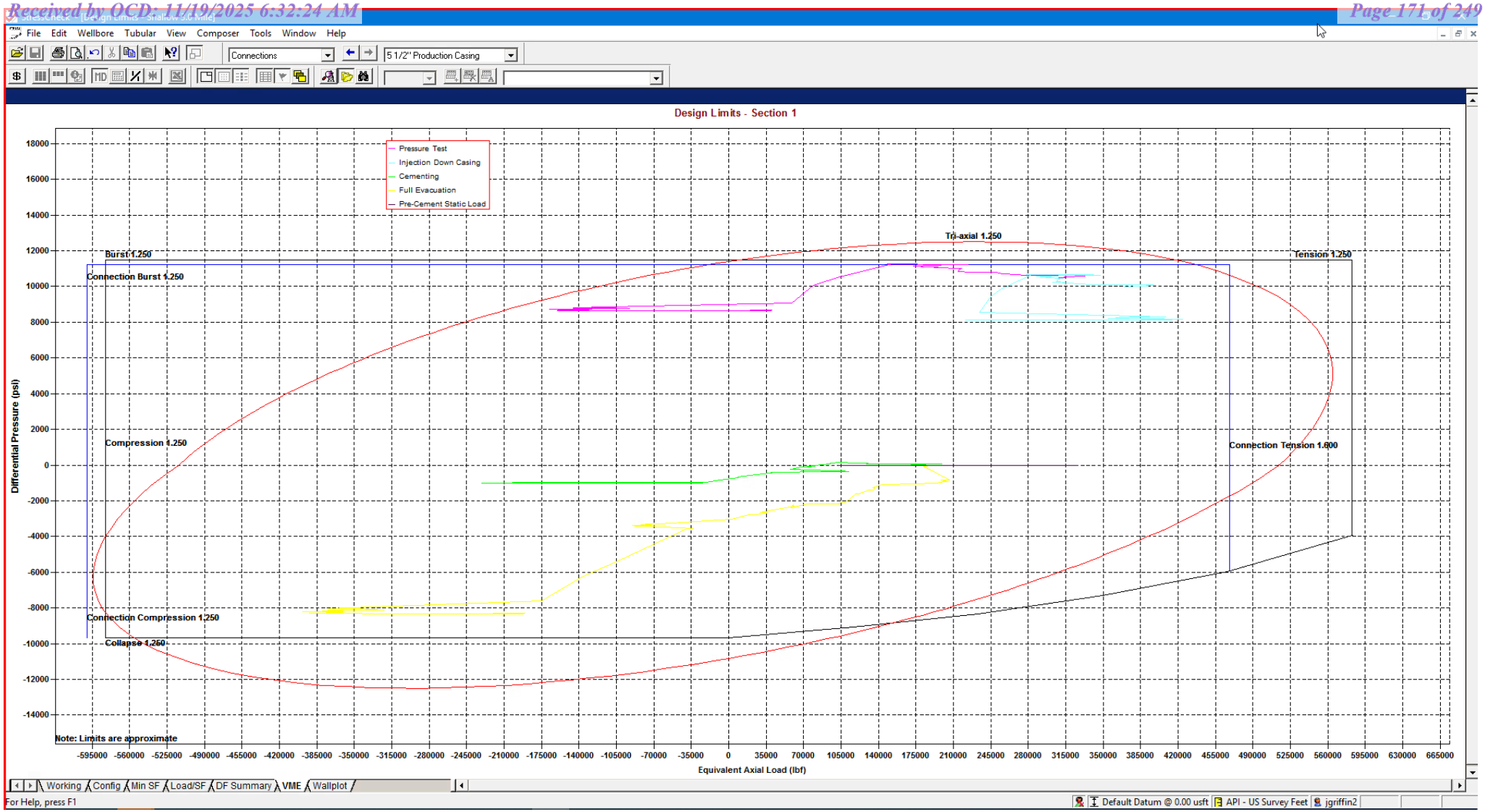


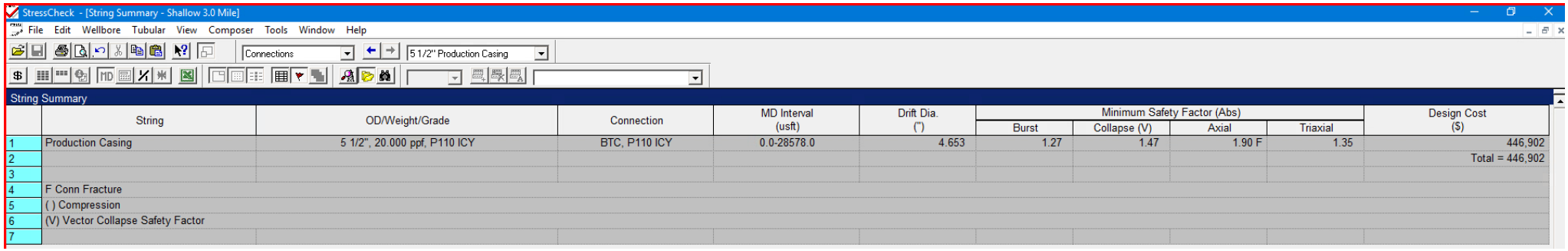
StressCheck - [String Summary - Shallow 3.0 Mile - Big Hole *]

String Summary

	String	OD/Weight/Grade	Connection	MD Interval (usft)	Drift Dia. (")	Minimum Safety Factor (Abs)				Design Cost ($)
						Burst	Collapse (V)	Axial	Triaxial	
1	Production Casing	6", 24.500 ppf, P110 ICY	BTC, P110 ICY	0.0-28578.0	5.075	1.29	1.52	(1.75)	1.37	541,493
2										Total = 541,493
3										
4	( ) Compression									
5	(V) Vector Collapse Safety Factor									
6										

*Modelling done with 6" Production Casing with a 125ksi Control Yield. Passes all Burst, Collapse and Tensile design criteria.





	String	OD/Weight/Grade	Connection	MD Interval (usft)	Drift Dia. (")	Minimum Safety Factor (Abs)				Design Cost ($)
						Burst	Collapse (V)	Axial	Triaxial	
1	Production Casing	5 1/2", 20.000 ppf, P110 ICY	BTC, P110 ICY	0.0-28578.0	4.653	1.27	1.47	1.90 F	1.35	446,902
2										Total = 446,902
3										
4	F Conn Fracture									
5	( ) Compression									
6	(V) Vector Collapse Safety Factor									
7										

*Modelling done with 5-1/2" 20# Production Casing with a 125ksi Control Yield. Passes all Burst, Collapse and Tensile design criteria.

eog resources

Shallow Casing Design 501H

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

Cement integrity tests will be performed immediately following plug bump.

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.

EOG requests variance from minimum standards to pump a two stage cement job on the production casing string with the first stage being pumped conventionally with the calculated top of cement at the top of the Brushy Canyon and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 400 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (1.32 yld, 14.8 ppg) will be executed as a contingency. Top will be verified by Echo-meter.

Bradenhead will be the primary option for production cementing. EOG also requests to have the conventional option in place to accommodate for logistical or wellbore conditions. The tie back requirements will be met if the cement is pumped conventionally, and cement volumes will be adjusted accordingly. TOC will be verified by CBL.

eog resources

MUD PROGRAM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal. The applicable depths and properties of the drilling fluid systems are as follows:

Measured Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 2,030'	Fresh - Gel	8.6-8.8	28-34	N/c
2,030' – 7,793'	Brine	9-10.5	28-34	N/c
5,450' – 28,578' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

Appendix A - Spec Sheets

Received by OCD: 11/19/2025 6:32:24 AM

Pipe Body and API Connections Performance Data

13.375 54.50/0.380 J55

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« Back to Previous List

USC Metric

6/8/2015 10:04:37 AM

Mechanical Properties	Pipe	BTC	LTC	STC	
Minimum Yield Strength	55,000	--	--	--	psi
Maximum Yield Strength	80,000	--	--	--	psi
Minimum Tensile Strength	75,000	--	--	--	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	--	--	--	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
Make-Up Data	**Pipe**	**BTC**	**LTC**	**STC**	
Make-Up Loss	--	4.81	--	3.50	in.
Minimum Make-Up Torque	--	--	--	3,860	ft-lbs
Maximum Make-Up Torque	--	--	--	6,430	ft-lbs

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Received by OCD: 11/19/2025 6:32:24 AM

Pipe Body and API Connections Performance Data

9.625 40.00/0.395 J55

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« Back to Previous List

USC Metric

6/8/2015 10:23:27 AM

Mechanical Properties	Pipe	BTC	LTC	STC	
Minimum Yield Strength	55,000	--	--	--	psi
Maximum Yield Strength	80,000	--	--	--	psi
Minimum Tensile Strength	75,000	--	--	--	psi
Dimensions	**Pipe**	**BTC**	**LTC**	**STC**	
Outside Diameter	9.625	10.625	10.625	10.625	in.
Wall Thickness	0.395	--	--	--	in.
Inside Diameter	8.835	8.835	8.835	8.835	in.
Standard Drift	8.679	8.679	8.679	8.679	in.
Alternate Drift	8.750	8.750	8.750	8.750	in.
Nominal Linear Weight, T&C	40.00	--	--	--	lbs/ft
Plain End Weight	38.97	--	--	--	lbs/ft
Performance	**Pipe**	**BTC**	**LTC**	**STC**	
Minimum Collapse Pressure	2,570	2,570	2,570	2,570	psi
Minimum Internal Yield Pressure	3,950	3,950	3,950	3,950	psi
Minimum Pipe Body Yield Strength	630.00	--	--	--	1000 lbs
Joint Strength	--	714	520	452	1000 lbs
Reference Length	--	11,898	8,665	7,529	ft
Make-Up Data	**Pipe**	**BTC**	**LTC**	**STC**	
Make-Up Loss	--	4.81	4.75	3.38	in.
Minimum Make-Up Torque	--	--	3,900	3,390	ft-lbs
Maximum Make-Up Torque	--	--	6,500	5,650	ft-lbs

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VAM USA

DWC/C-IS MS™

Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	API DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 20.00 Plain End: 19.83	0.361	VST P110EC	4.653	87.5	DWC/C-IS MS

PIPE PROPERTIES		
Outside Diameter	5.500	in.
Inside Diameter	4.778	in.
Nominal Area	5.828	sq.in.
Grade Type	API 5CT	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	729	klb
Ultimate Strength	787	klb
Min. Internal Yield	14,360	psi
Collapse	12,090	psi

CONNECTION PROPERTIES		
Connection Type	Semi-Premium T&C	
Connection O.D. (nom)	6.115	in.
Connection I.D. (nom)	4.778	in.
Make-Up Loss	4.125	in.
Coupling Length	9.250	in.
Critical Cross Section	5.828	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES		
Yield Strength	729	klb
Parting Load	787	klb
Compression Rating	729	klb
Min. Internal Yield	14,360	psi
External Pressure	12,090	psi
Maximum Uniaxial Bend Rating	104.2	°/100 ft
Reference String Length w 1.4 Design Factor	26,040	ft

FIELD END TORQUE VALUES		
Min. Make-up torque	16,100	ft.lb
Opti. Make-up torque	17,350	ft.lb
Max. Make-up torque	18,600	ft.lb
Min. Shoulder Torque	1,610	ft.lb
Max. Shoulder Torque	12,880	ft.lb
Min. Delta Turn	-	Turns
Max. Delta Turn	0.200	Turns
Maximum Operational Torque	21,100	ft.lb
Maximum Torsional Value (MTV)	23,210	ft.lb

Need Help? Contact: tech.support@vam-usa.com

Reference Drawing: 8136PP Rev.01 & 8136BP Rev.01

Date: 12/03/2019

Time: 06:19:27 PM

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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VAM USA
2107 CityWest Boulevard Suite 1300
Houston, TX 77042
Phone: 713-479-3200
Fax: 713-479-3234
VAM® USA Sales E-mail: VAMUSAsales@vam-usa.com
Tech Support Email: tech.support@vam-usa.com

DWC Connection Data Sheet Notes:
1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.
12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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Pipe Body and API Connections Performance Data

10.750 40.50/0.350 J55

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« Back to Previous List

USC Metric

6/8/2015 10:14:05 AM

Mechanical Properties	Pipe	BTC	LTC	STC	
Minimum Yield Strength	55,000	--	--	--	psi
Maximum Yield Strength	80,000	--	--	--	psi
Minimum Tensile Strength	75,000	--	--	--	psi
Dimensions	**Pipe**	**BTC**	**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	--	--	--	--	in.
Nominal Linear Weight, T&C	40.50	--	--	--	lbs/ft
Plain End Weight	38.91	--	--	--	lbs/ft
Performance	**Pipe**	**BTC**	**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	--	--	--	1000 lbs
Joint Strength	--	700	--	420	1000 lbs
Reference Length	--	11,522	--	6,915	ft
Make-Up Data	**Pipe**	**BTC**	**LTC**	**STC**	
Make-Up Loss	--	4.81	--	3.50	in.
Minimum Make-Up Torque	--	--	--	3,150	ft-lbs
Maximum Make-Up Torque	--	--	--	5,250	ft-lbs

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VALLOUREC STAR 8.625 32# J55 S S2L2 DA 7.875 W/O# SLN # PO# MADE IN USA FT LB

vallourec

API 5CT, 10th Ed. Connection Data Sheet

O.D. (in)	WEIGHT (lb/ft)	WALL (in)	GRADE	*API DRIFT (in)	RBW %
8.625	Nominal: 32.00 Plain End: 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
Performance	
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 - Cplg 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

BTC Torque (ft-lbs)

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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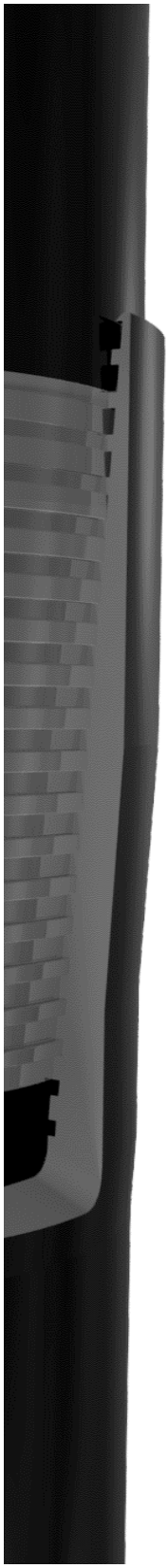


Issued on: 10 Feb. 2021 by Wesley Ott

VAM® SPRINT-SF
Connection Data Sheet

OD	Weight (lb/ft)	Wall Th.	Grade	API Drift:	Connection
6 in.	Nominal: 24.50 Plain End: 23.95	0.400 in.	P110EC	5.075 in.	**VAM® SPRINT-SF**

PIPE PROPERTIES		
Nominal OD	6.000	in.
Nominal ID	5.200	in.
Nominal Cross Section Area	7.037	sqin.
Grade Type		High Yield
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi

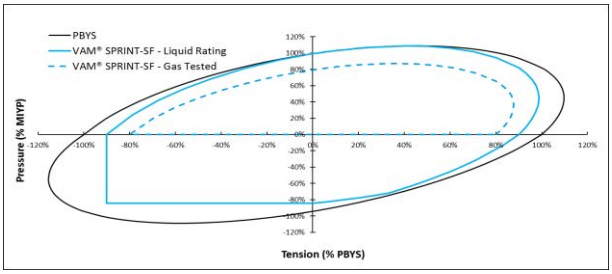
CONNECTION PROPERTIES		
Connection Type		Integral Semi-Flush
Connection OD (nom):	6.277	in.
Connection ID (nom):	5.146	in.
Make-Up Loss	5.386	in.
Critical Cross Section	6.417	sqin.
Tension Efficiency	91.0	% of pipe
Compression Efficiency	91.0	% of pipe
Internal Pressure Efficiency	100	% of pipe
External Pressure Efficiency	100	% of pipe

CONNECTION PERFORMANCES		
Tensile Yield Strength	801	klb
Compression Resistance	801	klb
Internal Yield Pressure	14,580	psi
Collapse Resistance	12,500	psi
Max. Structural Bending	83	°/100ft
Max. Bending with ISO/API Sealability	30	°/100ft

* 87.5% RBW

TORQUE VALUES		
Min. Make-up torque	21,750	ft.lb
Opt. Make-up torque	24,250	ft.lb
Max. Make-up torque	26,750	ft.lb
Max. Torque with Sealability (MTS)	53,000	ft.lb

VAM® SPRINT-SF is a semi-flush connection innovatively designed for extreme shale applications. Its high tension rating and ultra high torque capacity make it ideal to run a fill string length as production casing in shale wells with extended horizontal sections and tight clearance requirements.



Do you need help on this product? - Remember no one knows VAM® like VAM®

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Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance

DWC/C-IS™

Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	API DRIFT (in.)	RBW%	CONNECTION
6.000	Nominal: 22.30 Plain End: 21.70	0.360	VST P110EC	5.155	92.5	DWC/C-IS

PIPE PROPERTIES

Nominal OD	6.000	in.
Nominal ID	5.280	in.
Nominal Area	6.379	sq.in.
Grade Type	API 5CT	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	797	klb
Ultimate Strength	861	klb
Min. Internal Yield Pressure	13,880	psi
Collapse Pressure	9,800	psi

CONNECTION PROPERTIES

Connection Type	Semi-Premium T&C	
Connection OD (nom)	6.650	in.
Connection ID (nom)	5.280	in.
Make-Up Loss	4.313	in.
Coupling Length	9.625	in.
Critical Cross Section	6.379	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES

Yield Strength	797	klb
Parting Load	861	klb
Compression Rating	797	klb
Min. Internal Yield	13,880	psi
External Pressure	9,800	psi
Maximum Uniaxial Bend Rating	47.7	°/100 ft
Reference String Length w 1.4 Design Factor	25,530	ft.

FIELD END TORQUE VALUES

Min. Make-up torque	17,000	ft.lb
Opti. Make-up torque	18,250	ft.lb
Max. Make-up torque	19,500	ft.lb
Min. Shoulder Torque	1,700	ft.lb
Max. Shoulder Torque	13,600	ft.lb
Min. Delta Turn	-	Turns
Max. Delta Turn	0.200	Turns
Maximum Operational Torque	24,200	ft.lb
Maximum Torsional Value (MTV)	26,620	ft.lb

Need Help? Contact: tech.support@vam-usa.com

Reference Drawing: 8135PP Rev.02 & 8135BP Rev.02

Date: 07/30/2020

Time: 07:50:47 PM

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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VAM® USA

VAM USA
2107 CityWest Boulevard Suite 1300
Houston, TX 77042
Phone: 713-479-3200
Fax: 713-479-3234
VAM® USA Sales E-mail: VAMUSAsales@vam-usa.com
Tech Support Email: tech.support@vam-usa.com

DWC Connection Data Sheet Notes:
1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.
12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: OCTOBER 24, 2024
Expiration Date: DECEMBER 18, 2027

Anchal Liddar

Senior Vice President of Global Industry Services

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QMS Exclusions: No Exclusions Identified as Applicable

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REGISTRATION NO. Q1-3650

Certificate of Registration

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has been assessed by the American Petroleum Institute and found to be in conformance with the following:

API Spec Q1, 9th Edition

The scope of this registration and the approved quality management system applies to the

Assembly and Pressure Test of High Pressure Mud and Cement Hoses, Flexible Choke and Kill Lines and General Rubber Hydraulic Hose Assemblies

API approves the organization's justification for excluding

No Exclusions Identified as Applicable

API Spec Q1 Registered ®

Effective Date:	**OCTOBER 24, 2024**
Expiration Date:	**DECEMBER 18, 2027**
Registered Since:	**DECEMBER 18, 2018**

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This certificate is valid for the period specified herein. The registered organization must continually meet all requirements of API Spec Q1, *Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry,* and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual full system audits. This certificate has been issued from API offices located at 200 Massachusetts Avenue, NW Suite 1100, Washington, DC 20001-5571, U.S.A. It is the property of API and must be returned upon request. **To verify the authenticity of this certificate, go to www.api.org/compositelist.**

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EMAIL: gesna.quality@gates.com
WEB: gates.com/oilandgas

CERTIFICATE OF CONFORMANCE

This is to verify that all Parts and/or Materials included in this shipment have been manufactured and/or processed in Conformance with applicable drawings and specifications, and that Records of Required Tests are on file and subject to examination. The following items were purchased via **Gates Engineering & Services North America** facilities in Houston, TX, USA. This hose assembly was designed and manufactured to meet requirements of API Spec 16C, 3rd Edition.

CUSTOMER:	HELMERICH & PAYNE INTERNATIONAL DRILLING CO.
CUSTOMER P.O.#:	740399823 (TAG WITH H&P I.D # 88076545 &H&P P.O. # 740399823 (UK S/O 34557))
CUSTOMER P/N:	3.035.016C4116FX-FLTSSA
PART DESCRIPTION:	3" X 35 FT GATES API 16C CHOKE & KILL FSL 3 TEMP B HOSE ASSEMBLY WITH STAINLESS STEEL ARMOR C/W 4 1/16" 10K H2S SUITED FLOAT X FLOAT FLANGES WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS/LIFT EYE CLAMPS
SALES ORDER #:	525112
QUANTITY:	1
SERIAL #:	SN 139321 HOSE BATCH 139244

SIGNATURE: _____

TITLE: **QUALITY ASSURANCE**

DATE: 2/10/2023

Gates Engineering & Services UK Ltd		CERTIFICATE OF CONFORMITY	
Doc. Ref.	Form-056		
Revision	4		

Gates SO No. 34557	**Customer Name & Address:** Gates Engineering & Services NA Inc Accounts payable 7N GESNA 1144 Fifteenth Street, Suite 1400 Denver, CO 80202 USA
Customer PO No: 1803964/ 1	
Description: 3" 10K API 16C CHOKE & KILL HOSE ASSEMBLY X 35FT OAL (QTY 5)	

This is to certify that the components listed below have been supplied in accordance with API 16C & the above referenced order number. The assemblies listed below have been manufactured and tested in the UK.

SPECIFICATION

ITEM	DESCRIPTION	BATCH NUMBER	QTY
1	3" 10K API 16C CHOKE & KILL HOSE ASSEMBLY X 35FT OAL PART NO: HA34539-001 END A: 4.1/16" 10K API SPEC 6A TYPE FLANGE WITH BX155 RING GROOVE END B: 4.1/16" 10K API SPEC 17D SV SWIVEL FLANGE WITH BX155 RING GROOVE EACH END HAS AN INCONEL 625 INLAID RING GROOVE HOSE METALLIC PARTS MEET NACE-MR-0175 LATEST EDITION REQUIREMENTS WORKING PRESSURE: 10,000 PSI TEST PRESSURE: 15,000 PSI STANDARD: API 16C FSL3 MONOGRAMMED, 3RD EDITION EXTERNAL PROTECTION: STAINLESS STEEL ARMOUR INCLUDED FIRE RATED: API 16C STANDARD SECTION B.12.4 (704° FOR 30 MINS) H2S SERVICE SUITABLE TEMPERATURE CLASS B(-25 TO 100°C) HIGH TEMPERATURE EXPOSURE / SURVIVAL @ 177°C (INTERNAL IN A KICK SITUATION) SAFETY EQUIPMENT: INCLUDED 2 X HOSE SAFETY CLAMPS 2 X 3.6T SHACKLES 2 X 10MM OD X 6FT PCP COATED CHAINS HOSE ASSEMBLYY WORKS ORDERS NUMBERS: 139051 139052 139053 139054 139321	139062 139063 139064 139065 139244	5
	SAFETY/LIFTER CLAMP 195MM 1.7T PART NO: HCC108	MYB59483	10
	SAFETY CHAIN 10MM C/S PCP 6FT PART NO: CHC001	ACU59481	10

QA JW J. Wilkin 06 DEC 2022

Accepted by..... **for and on behalf of Gates Engineering & Services UK Ltd**

Gates Engineering & Services UK Ltd		PRESSURE TEST CERTIFICATE	Gates
Doc. Ref.	Form-051		
Revision	9		

			Certificate No:
☐ BURST	☑ HYDROSTATIC	☐ CYCLIC	PTC-139321

Product:	CK03F	Hose WO/Batch:	139244
Assembly WO:	139321	Length:	35FT
SO No:	34557	Date:	25/11/22
Customer:	Gates Engineering & Services NA Inc	Customer Reference:	PO 1803964/ 1

Inner Diameter:	3	Inch		
Working Pressure:	10000	Psi	690	bar
Test Pressure:	15000	Psi	1034	bar
Burst Pressure:	22500	Psi	1551	bar

Hose Description:	3" 10K API 16C CHOKE & KILL HOSE ASSEMBLY X 35FT OAL END A: 4.1/16" 10K API SPEC 6A TYPE FLANGE WITH BX155 RING GROOVE END B: 4.1/16" 10K API SPEC 17D SV SWIVEL FLANGE WITH BX155 RING GROOVE

Item No	Qty	Part Code	Customer Tag No (if applicable)
1	1	HA34539-001	N/A

Details of Test:	Pressure tested with water at ambient temperature for a minimum of **60** minutes at test pressure **1034 BAR** Pressure Transducer S/N: 131203 (CH1) Chart Recorder S/N: S5VB14523 Calibration Certificate No: IKMCERTU823
Results:	Pressure Loss: **8.43 BAR** Acceptance Criteria: Pressure loss not to exceed **500 PSI (34.47 BAR)**

GESUK Ltd	Third Party
QA JW J. Wilkinson 06 DEC 2022	

CR 374

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File Message : CH1 139321
Device Type : GX20
Serial No. : S5VB14523

Start Time : 2022/11/25 00:53:50.000 (UTC+08:00)
Stop Time : 2022/11/25 03:53:20.000 (UTC+08:00)

Print Groups : GROUP 1
Print Range : 2022/11/25 00:53:50.000 - 2022/11/25 03:53:20.000 (UTC+08:00)

QA
JW

D. Wilson
06 DEC 2022

Section 427 - 787 2022/11/25 02:05:00.000 - 2022/11/25 03:05:00.000

Channel	MIN	MAX	P-P	Mean	RMS
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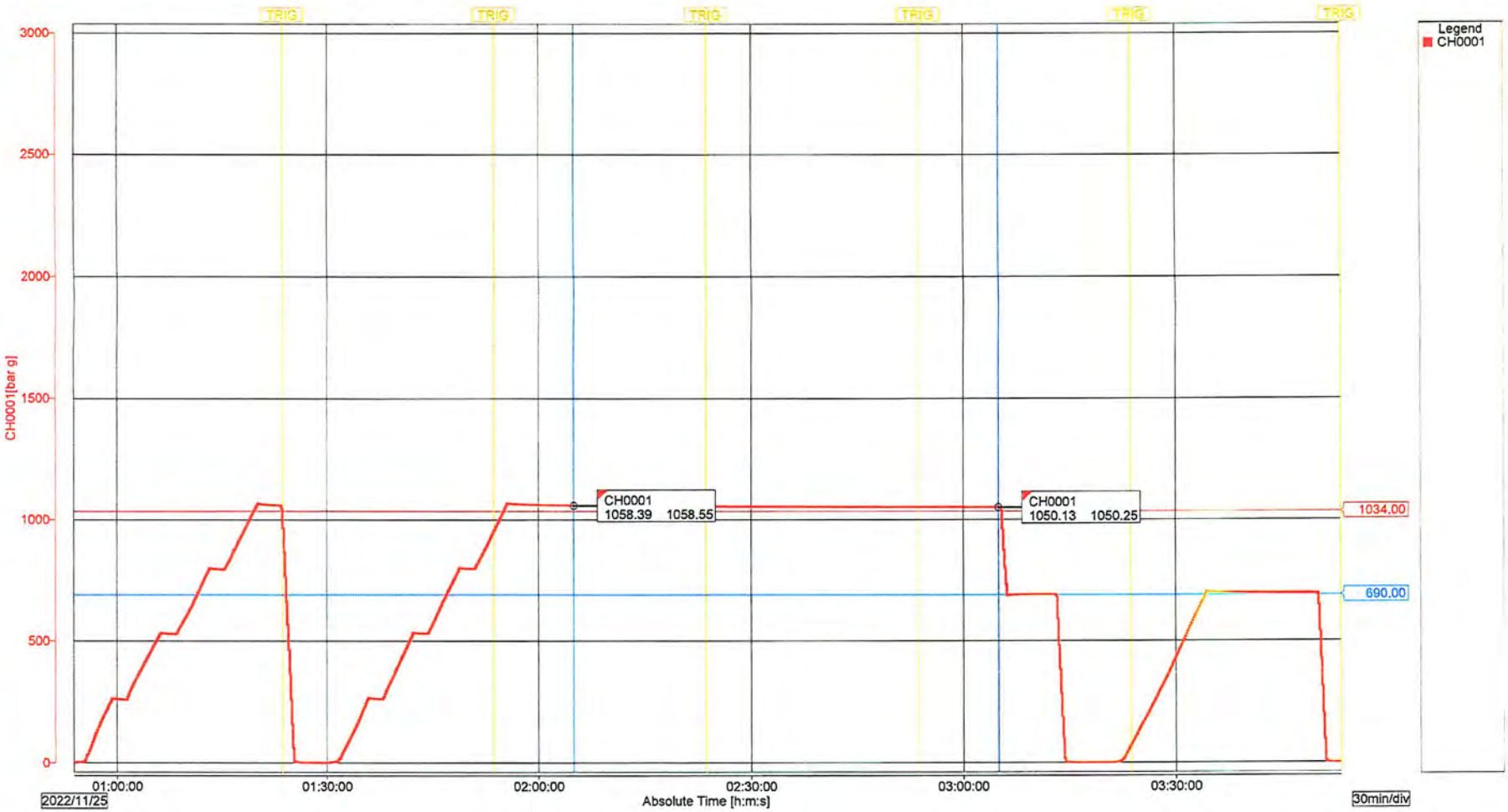

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AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

SUPO Data Report
11/18/2025

APD ID: 10400107023
Submission Date: 09/12/2025
Operator Name: EOG RESOURCES INCORPORATED
Well Name: PEACHTREE 24 FED COM
Well Number: 572H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PEACHTREE_24_FED_COM__572H_VIC_20250911151940.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

EP_PEACHTREE_24_FED_COM_208H_508H_207H_108H_ROAD_SEC_25_S_20250924134242.pdf
EP_PEACHTREE_24_FED_COM_591H_592H_593H_594H_ROADS_SEC_24_S_20250924134242.pdf

New road type: RESOURCE

Length: 11223 Feet
Width (ft.): 30

Max slope (%): 2
Max grade (%): 20

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 24

New road access erosion control: Newly constructed or reconstructed roads will be constructed as outlined in the BLM "Gold Book" and to meet the standards of the anticipated traffic flow and all anticipated weather requirements as needed. Construction will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well-constructed and safe road. We plan to water twice a year.

New road access plan or profile prepared? N

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

New road access plan

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: 6" COMPACTED CALICHE

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: 0

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Other Description: NO DRAINAGE CROSSINGS

Drainage Control comments: N/A

Road Drainage Control Structures (DCS) description: N/A

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

PEACHTREE_24_FED_COM__572H_MILES_RADIUS_20250911151956.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

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SK_PEACHTREE_24_FED_COM_EXHIBIT_5_SKETCH_REV7_20250924134441.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: RECYCLED

Water source use type: OTHER

Describe use type: The source and location of the wat
location will be drilled using a combination of water muc
program. (i) Water will be obtained from commercial wa
to the location by trucks using existing and proposed ro
attached. (ii) Water may be supplied from frac ponds an
temporary above-ground surface lines a shown on the r
(8) twelve-inch (12) layflat lines to transport fresh water.
10,000 mg/l Total Dissolved Solids (TDS), exhibits no p
is not previously used in mechanical processes that exp
potential toxins. EOG plans to utilize up to eight (8) twel
produced water, defined as reconditioning produced wa
include mechanical and chemical processes. Freshwate
Lot 4 of Section 36, Township 26 South, Range 33 East
Produced Water Source: EOG Rattlesnake Reuse Pit in
Township 26 South, Range 33 East, Lea County, New M
would originate from a single or multiple water source lo
the proposed action and be temporarily laid above grou
Temporary surface line(s) shall be laid no more than 10
disturbance (i.e., edge of bar/borrow ditch, road surface
made addition to the landscape). A push-off arm or ano
vehicle equipment will remain within the existing disturb
locations of the temporary surface lines will be provided
Environmental Assessment. An electronic map file (sha
submitted with the Environmental Assessment.

Source latitude:

Source longitude:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Source datum:

City:

Water source permit type: WATER RIGHT

Water source transport method: TRUCKING

PIPELINE

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 1 **Source volume (acre-feet):** 0.00012889

Source volume (gal): 42

Water source and transportation

EP_PEACHTREE_24_FED_COM_RANCH_WATERLINE_REROUTE_REV2_S_20251021153250.pdf

Water source comments:

New water well? N

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

Well casing outside diameter (in.): **Well casing inside diameter (in.):**

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Grout material: **Grout depth:**

Casing length (ft.): **Casing top depth (ft.):**

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche will be supplied from pits shown on the attached caliche source map. Caliche utilized for the drilling pad will be obtained either from an existing approved mineral pit, or by benching into a hill, which will allow the pad to be level with existing caliche from the cut or extracted by Flipping the well location. A mineral material permit will be obtained from BLM prior to excavating any caliche on Federal Lands. Amount will vary for each pad. The procedure for Flipping a well location is as follows: * -An adequate amount of topsoil/root zone (usually top 6 inches of soil) will be stripped from the proposed well location and stockpiled along the side of the well location as depicted on the well site diagram/survey plat. -An area within the proposed well site dimensions will be used to excavate caliche. Subsoil will be removed and stockpiled within the surveyed well pad dimensions. -Once caliche/surfacing mineral is found, the mineral material will be excavated and stockpiled within the approved drilling pad dimensions. -Then, subsoil will be pushed back in the excavated hole, and caliche will be spread accordingly across the entire well pad and road (if available). -Neither caliche nor subsoil will be stockpiled outside the well pad dimensions. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat. * If no caliche is found onsite, caliche will be hauled in from a BLM-approved caliche pit or other established mineral pit. A BLM mineral material permit will be acquired before obtaining mineral material from BLM pits or federal land.

Construction Materials source location

Caliche_Map_20250902083455.pdf

Section 7 - Methods for Handling

Waste type: GARBAGE

Waste content description: trash generated by onsite personnel

Amount of waste: 1 pounds

Waste disposal frequency : Weekly

Safe containment description: Trash dumpsters are utilized to contain garbage onsite. Dumpsters are maintained by a third party vendor. All trash is hauled to Lee County landfill.
Safe containmant attachment:

Waste disposal type: OTHER **Disposal location ownership:** OTHER

Disposal type description: Lea County Landfill

Disposal location description: Lea County Landfill

Waste type: DRILLING

Waste content description: Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored onsite in frac tanks and disposed of at the time of rig down. Primary disposal location for EOGs NM operations is the North Delaware Basin Disposal facility in Jal, New Mexico which is a privately owned commercial facility. Some EOG locations within New Mexico may require transportation of cuttings to other licensed commercial disposal facilities based on geographic location.
Amount of waste: 1 barrels

Waste disposal frequency : Daily

Safe containment description: STEEL TANKS

Safe containmant attachment:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
Disposal type description:

Disposal location description: North Delaware Basin Disposal Facility in Jal, NM

Waste type: SEWAGE

Waste content description: Human grey water waste

Amount of waste: 1 barrels

Waste disposal frequency : Weekly

<style isBold="true">Safe containment description:</style> Human waste managed by third-party vendors. ROW construction waste contained in on-site portable toilets maintained by third party vendor. During drilling activities waste is managed by third party vendor utilizing onsite aerobic (treatment) wastewater management. Liquids treated through the aerobic system are transferred to via water line to CTBs for reuse by EOG. All solid waste remaining after treatment process are pumped into an enclosed waste transfer truck at the time of rig down and taken to one of the following disposal facilities by the third party vendor: Qual Run Services LLC (a Licensed Waste Management Service Facility in Reeves County, Texas) or ReUse OilField Services (a Licensed Waste Management Facility in Mentone, TX)

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
Disposal type description:

Disposal location description: Qual Run Services LLC (a licensed waste management service facility in Reeves County, TX) or ReUse OilField Services (a licensed waste management facility in Mentone, TX)

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location EOGs NM operations is the North Delaware Basin Disposal Facility in Jal, New Mexico which is a privately owned commercial facility. Some EOG locations within New Mexico may require transportation of cuttings to other licensed commercial disposal facilities based on geographic location.

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

Cuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

PEACHTREE_24_FED_COM__572H_SITE_20250911152024.pdf
Peachtree_24_Fed_Com_572H_Rig_Layout_20250911152024.pdf
PEACHTREE_24_FED_COM__572H_WELLSITE_20250911152024.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: PEACHTREE 24 FED COM

Multiple Well Pad Number: 571H, 572H, 573H, 574H

Recontouring

PEACHTREE_24_FED_COM__572H_RECLAMATION_20250911152040.pdf

Drainage/Erosion control construction: Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area.

Drainage/Erosion control reclamation: The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion is controlled.

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Well pad proposed disturbance (acres): 0 **Well pad interim reclamation (acres):** 0 **Well pad long term disturbance (acres):** 0
Road proposed disturbance (acres): **Road interim reclamation (acres):** 0 **Road long term disturbance (acres):** 0

Powerline proposed disturbance (acres): 0 **Powerline interim reclamation (acres):** 0 **Powerline long term disturbance (acres):** 0
Pipeline proposed disturbance (acres): 0 **Pipeline interim reclamation (acres):** 0 **Pipeline long term disturbance (acres):** 0
Other proposed disturbance (acres): 0 **Other interim reclamation (acres):** 0 **Other long term disturbance (acres):** 0

Total proposed disturbance: 0 **Total interim reclamation:** 0 **Total long term disturbance:** 0

Disturbance Comments: All Interim and Final reclamation must be within 6 months. Interim must be within 6 months of completion and final within 6 months of abandonment plugging. Dual pad operations may alter timing.

Reconstruction method: In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads. Areas planned for interim reclamation will be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts and fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Soil treatment: Re-seed according to BLM standards. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion is controlled.
Existing Vegetation at the well pad: Grass, forbs, and small woody vegetation, such as mesquite will be excavated as the topsoil is removed. Large woody vegetation will be stripped and stored separately and respreads evenly on the site following topsoil respreading. Topsoil depth is defined as the top layer of soil that contains 80% of the roots. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location and along the perimeter of the access road to control run- on and run-off, to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils.

Existing Vegetation at the well pad

Existing Vegetation Community at the road: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

Existing Vegetation Community at other disturbances

Non native seed used?

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project?

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: **Last Name:**

Phone: **Email:**

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, erosion is controlled, and free of noxious weeds. Weeds will be treated if found.

Weed treatment plan

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Monitoring plan description: Reclamation will be completed within 6 months of well plugging. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, erosion is controlled, and free of noxious weeds.

Monitoring plan

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Section 12 - Other

Right of Way needed? N **Use APD as ROW?**

ROW Type(s):

ROW

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

SUPO Additional Information: The onsite meeting was conducted at the BLM CFO on 7/23/2025. Goshawk will be the Environmental Consultant used on this Well Package. We plan to use eight 12-inch lay flat hoses to transport water and eight 4-inch polylines or lay flat for drilling and frac operations. The well will be produced using gas lift as the artificial lift method. Produced water will be transported via pipeline to the EOG produced water gathering system.

Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

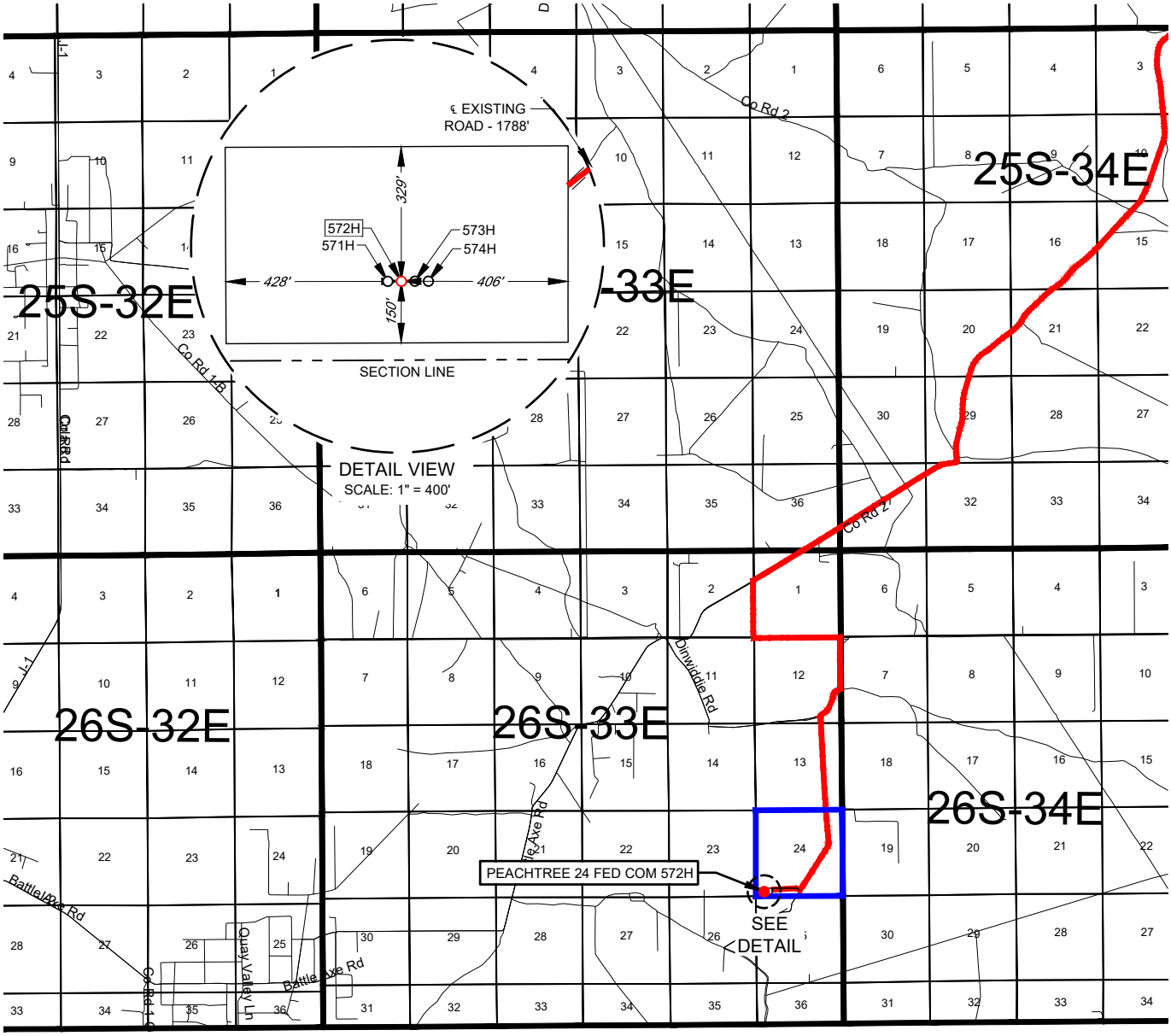
PEACHTREE_24_FED_COM__572H_L_E_20250911152053.pdf

SUPO_SEC_7_WASTE_ATTACHMENT_RE_20250912081757.pdf

SUPO_PEACHTREE_24_FED_COM_572H_20250924134524.pdf

EXHIBIT 2

VICINITY MAP



eog resources, inc.

LEASE NAME & WELL NO.: PEACHTREE 24 FED COM 572H

SECTION 24 TWP 26 RGE 33 SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 192' FSL & 624' FWL

DISTANCE & DIRECTION

FROM INT. OF N. 3RD ST., & NM-128, GO WEST ON NM-128 ±13.8 MILES, THENCE SOUTHWEST (LEFT) ON BATTLE AXE RD. ±12.2 MILES, THENCE SOUTH (LEFT) ON LEASE RD. ±0.7 MILES, THENCE EAST (LEFT) ON A LEASE RD. ±1.0 MILES, THENCE SOUTH (RIGHT) ON A LEASE RD. ±3.0 MILES, THENCE EAST (LEFT) ON A LEASE RD. ±0.3 MILES, THENCE CONTINUE WEST ON AN EXISTING RD. ±1788 FEET TO A POINT ±475 FEET NORTHEAST OF THE LOCATION.

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N

SCALE: 1" = 10000'
0' 5000' 10000'

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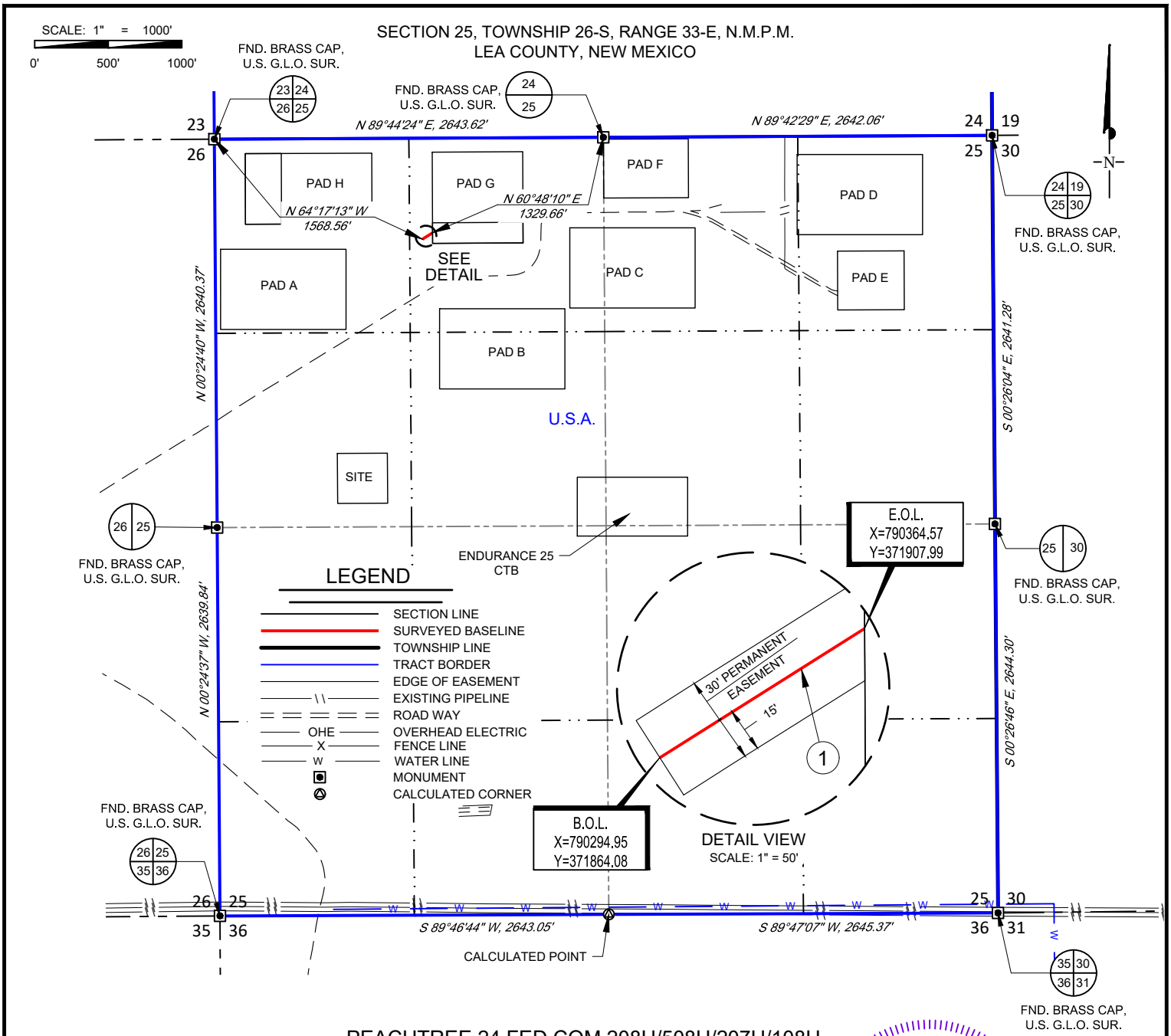

PEACHTREE 24 FED COM 208H/508H/207H/108H ROAD EASEMENT

Being a proposed road easement being 30 feet in width, 15 feet left, and 15 feet right of the above platted centerline total line footage containing 82.31 feet or 4.99 rods, containing 0.06 acres more or less.

LINE TABLE

LINE	BEARING	DISTANCE
1	N 57°45'50" E	82.31'

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RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/29/2025 12:33:36 PM

Ramon A. Dominguez, P.S. No. 24508

eog resources, Inc.

PEACHTREE 24 FED COM 208H/508H/207H/108H ROAD EASEMENT	REVISION: INT	DATE
DATE: 07/02/2025		
FILE: EP_PEACHTREE_24_FED_COM_208H-508H-207H-108H_ROAD_SEC_25		
DRAWN BY: RPN		
SHEET : 1 OF 1		

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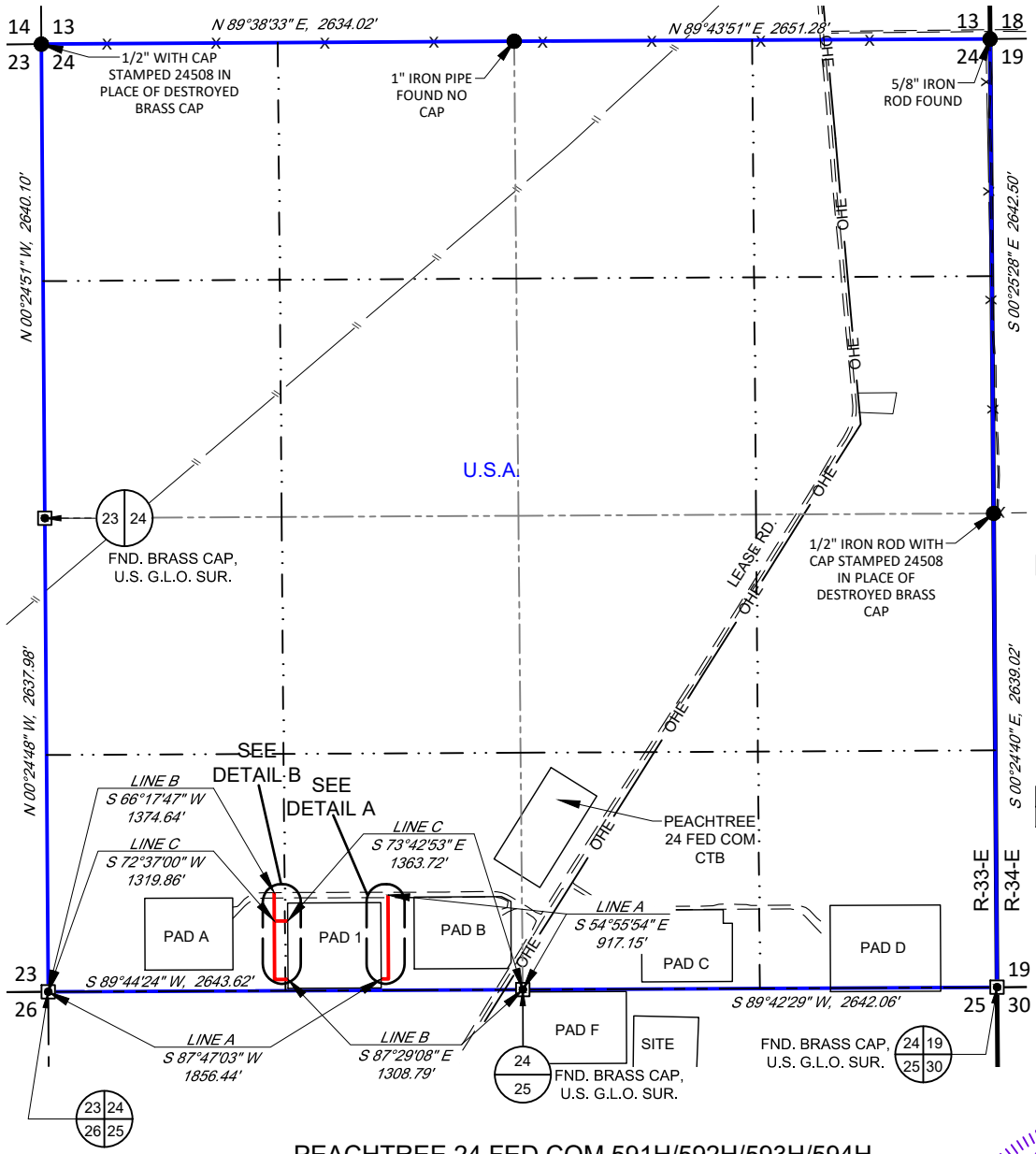
SCALE: 1" = 1000'
0' 500' 1000'

SECTION 24, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEGEND

- TOWNSHIP/RANGE LINE
- SECTION LINE
- SURVEYED BASELINE
- CONTINUED BASELINE
- TRACT BORDER
- EDGE OF EASEMENT
- ROAD WAY
- X — FENCE LINE
- EXISTING PIPELINE
- OHE — OVERHEAD ELECTRIC
- POINT OF INTERSECTION
- MONUMENT
- CALCULATED CORNER
- IRON ROD FOUND

LINE TABLE A

LINE	BEARING	DISTANCE
A1	S 00°15'36" E	466.82'
A2	S 89°28'47" W	40.00'

LINE TABLE B

LINE	BEARING	DISTANCE
B1	S 00°17'55" E	483.88'
B2	N 89°28'47" E	74.87'

LINE TABLE C

LINE	BEARING	DISTANCE
C1	N 89°55'56" E	75.00'

PEACHTREE 24 FED COM 591H/592H/593H/594H ROAD EASEMENTS

Being a proposed road easement being 30 feet in width, 15 feet left, and 15 feet right of the above platted centerline total line footage containing 1,140.57 feet or 69.13 rods, containing 0.79 acres more or less.

SEE PAGE 2 FOR DETAILS

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DATE: 07/03/2025		
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LEA COUNTY, NEW MEXICO

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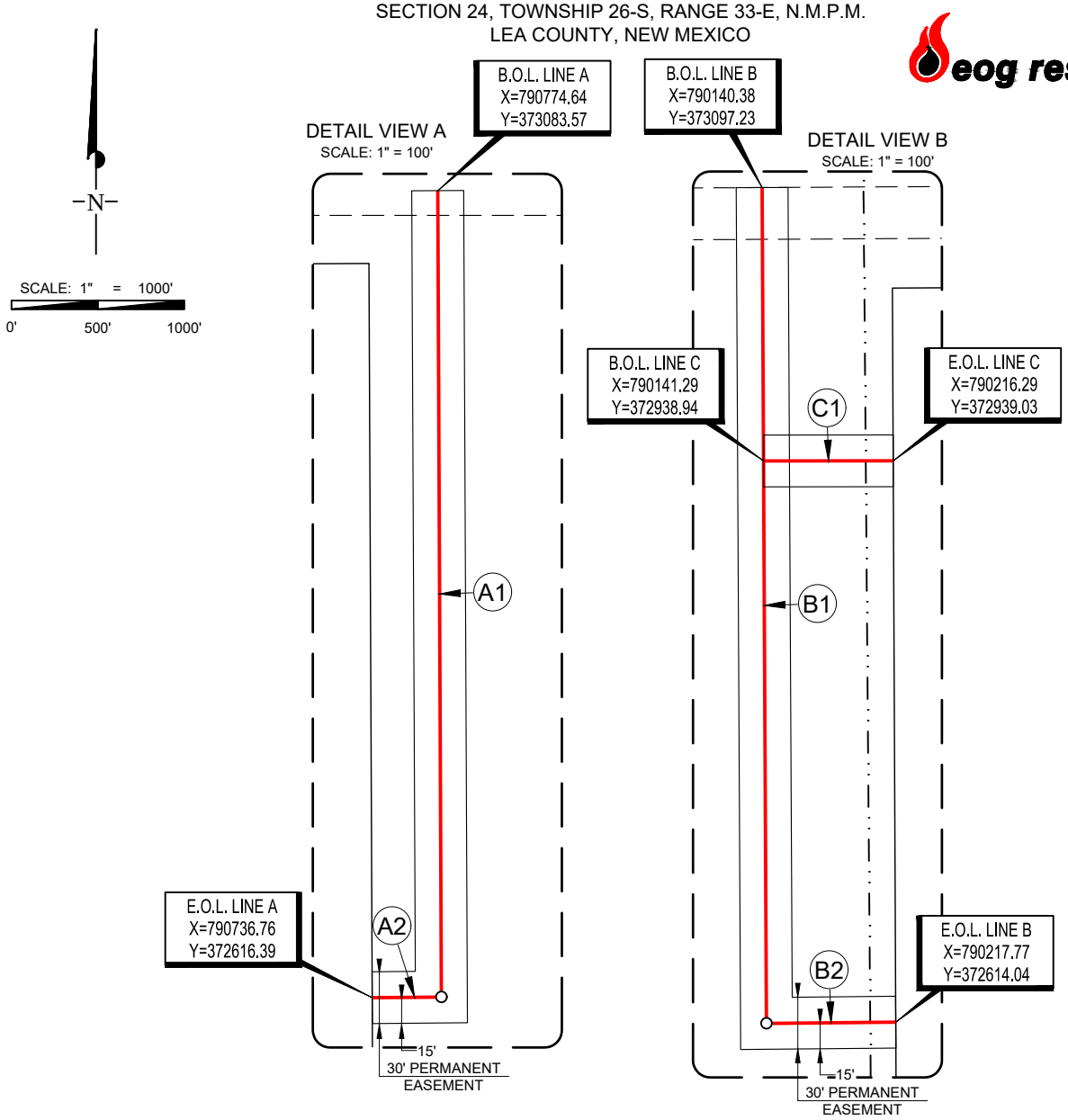

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24508
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EXHIBIT 3

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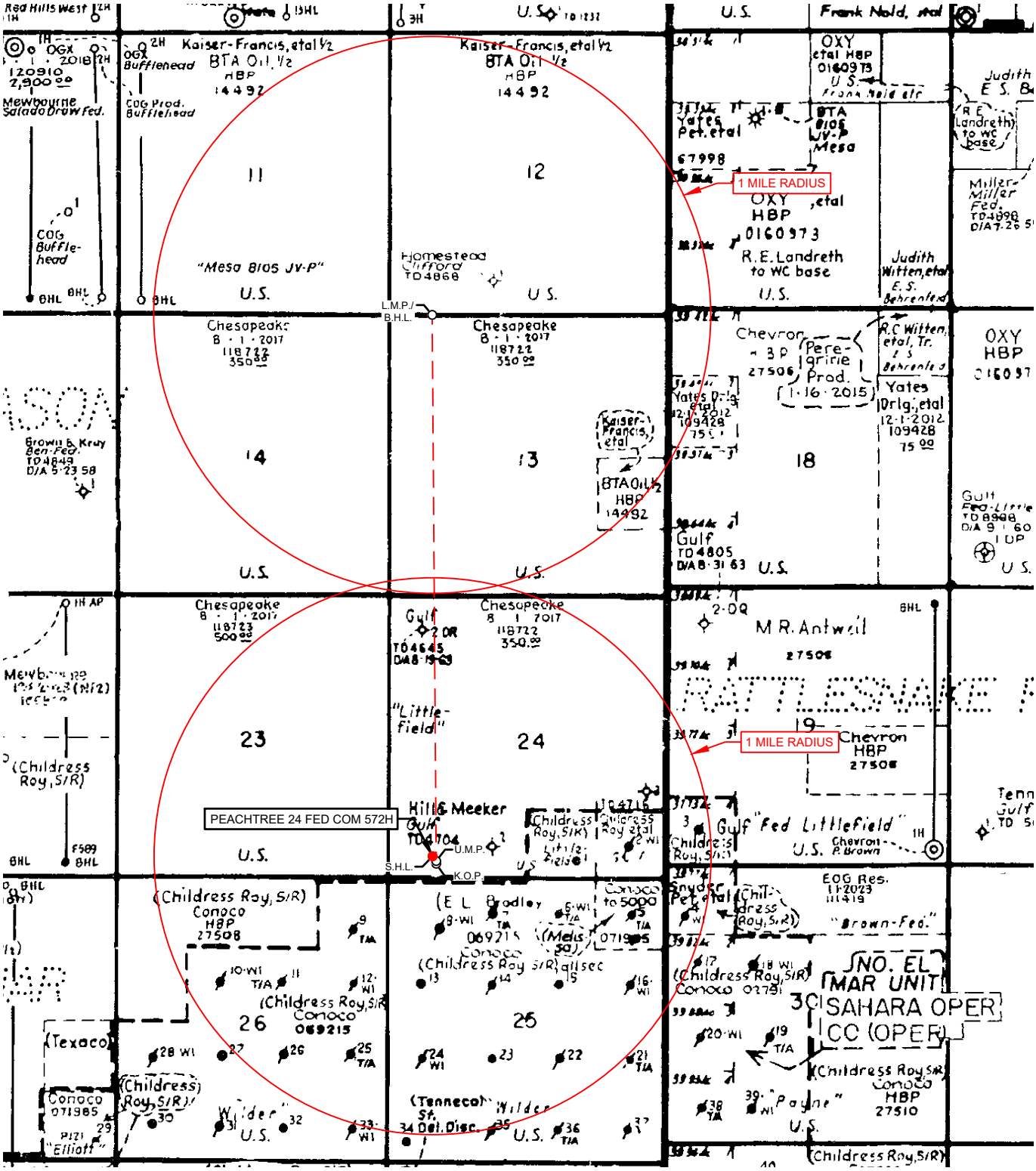
SECTION 24, TOWNSHIP 26, RANGE 33, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: PEACHTREE 24 FED COM 572H

572H LATITUDE N 32.0222129 572H LONGITUDE W 103.5325812

SCALE: NTS

N

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TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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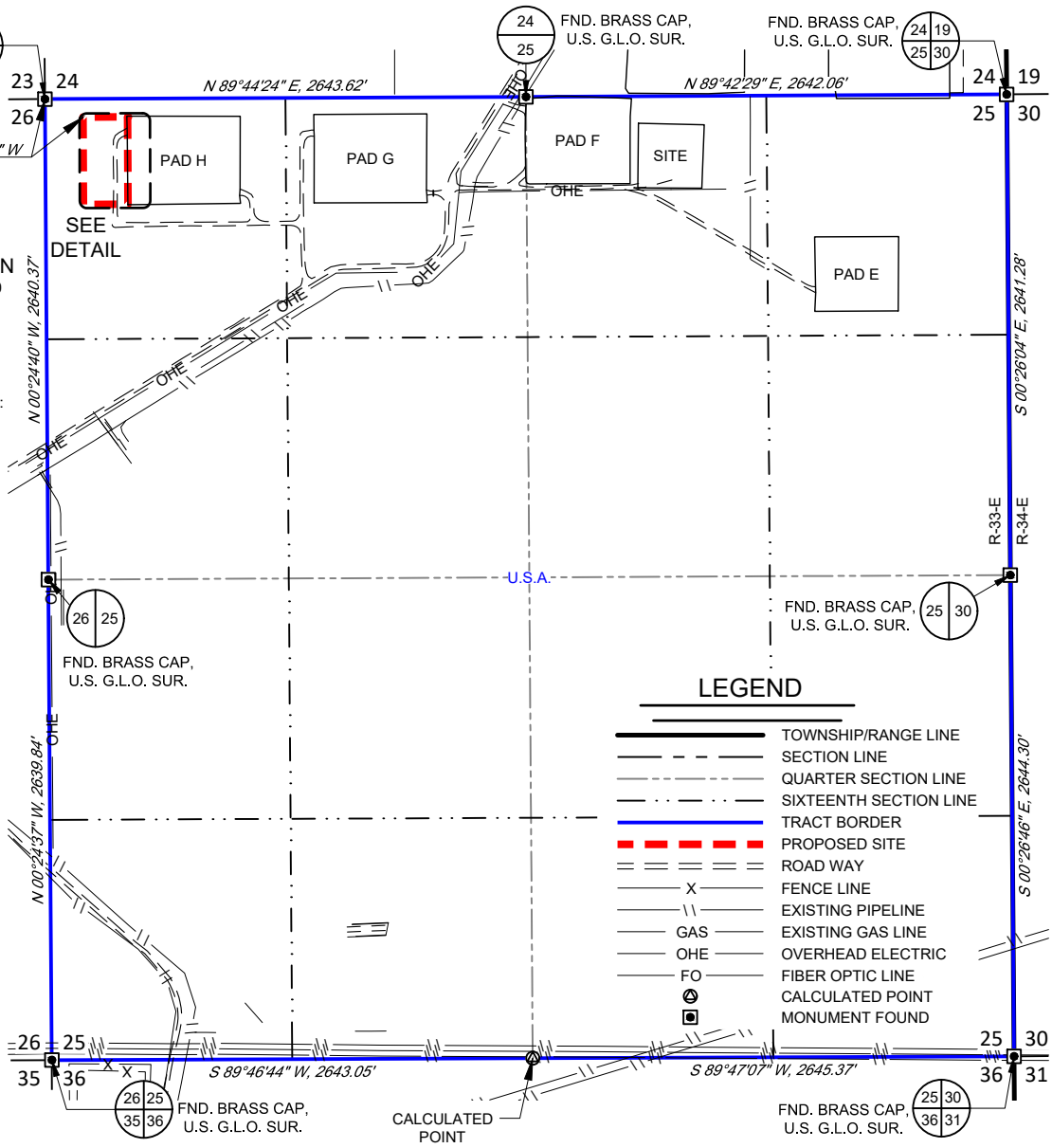
S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\LO_PEACHTREE_24_FED_COM_572H.DWG 7/30/2025 1:22:09 PM ahall3

SCALE: 1" = 1000'

0' 500' 1000'

SECTION 25, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



PEACHTREE 24 FED COM 206H/507H/107H/581H PAD EXPANSION

Metes and Bounds Description of a proposed 2.70 acre site within Section 25, Township 26 South, Range 33 East, N.M.P.M., in Lea County, New Mexico.

BEGINNING at a point being the Northwest corner of this site, from which a brass cap found for the Northwest corner of said Section 25, bears: N 64°40'33" W, a distance of 231.68 feet;

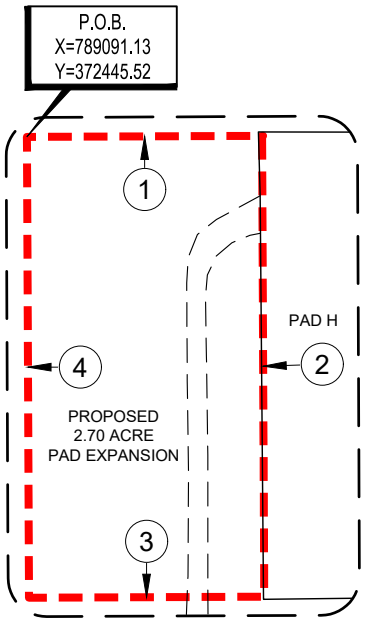
Thence N 89°44'24" E, a distance of 245.00 feet to a point for the Northeast corner of this site;

Thence S 00°15'36" E, a distance of 480.00 feet to a point for the Southeast corner of this site;

Thence S 89°44'24" W, a distance of 245.00 feet to a point for the Southwest corner of this site;

Thence N 00°15'36" W, a distance of 480.00 feet to the Point of Beginning.

NW/4 NW/4 117,600 square feet or 2.70 acres



DETAIL VIEW
SCALE: 1" = 200'

LEGEND

- TOWNSHIP/RANGE LINE
- SECTION LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE
- TRACT BORDER
- PROPOSED SITE
- ROAD WAY
- X — FENCE LINE
- EXISTING PIPELINE
- GAS — EXISTING GAS LINE
- OHE — OVERHEAD ELECTRIC
- FO — FIBER OPTIC LINE
- CALCULATED POINT
- MONUMENT FOUND

LINE TABLE

LINE	BEARING	DISTANCE
1	N 89°44'24" E	245.00'
2	S 00°15'36" E	480.00'
3	S 89°44'24" W	245.00'
4	N 00°15'36" W	480.00'

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/29/2025 10:48:34 AM

Ramon A. Dominguez, P.S. No. 24508

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481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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PEACHTREE 24 FED COM 206H/507H/107H/581H PAD EXPANSION	REVISION: INT	DATE
DATE: 07/01/2025		
FILE: BO_PEACHTREE_24_FED_COM_206H_507H_107H_581H_PAD_EXPANSION		
DRAWN BY: CAR		
SHEET : 1 OF 1		

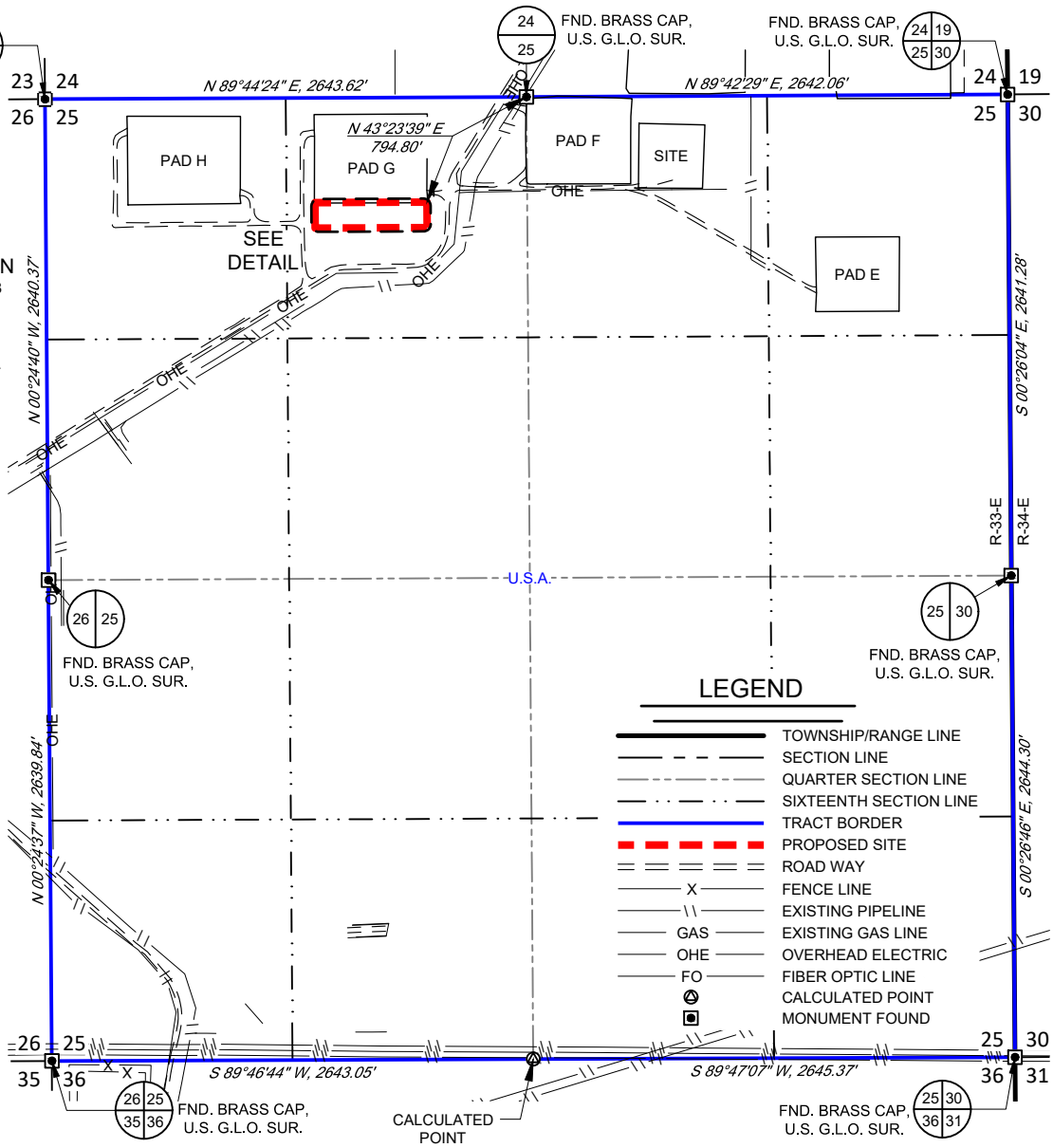
NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
4. P.O.B. = POINT OF BEGINNING

S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\BO_PEACHTREE_24_FED_COM_206H_507H_107H_581H_PAD_EXPANSION.DWG 7/29/2025 10:48:33 AM caleb.otten

SCALE: 1" = 1000'

0' 500' 1000'

SECTION 25, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



PEACHTREE 24 FED COM 208H/508H/207H/108H PAD EXPANSION

Metes and Bounds Description of a proposed 1.98 acre site within Section 25, Township 26 South, Range 33 East, N.M.P.M., in Lea County, New Mexico.

BEGINNING at a point being the Northeast corner of this site, from which a brass cap found for the North Quarter corner of said Section 25, bears: N 43°23'39" E, a distance of 794.80 feet;

Thence S 00°15'36" E, a distance of 140.00 feet to a point for the Southeast corner of this site;

Thence S 89°44'24" W, a distance of 615.00 feet to a point for the Southwest corner of this site;

Thence N 00°15'36" W, a distance of 140.00 feet to a point for the Northwest corner of this site;

Thence N 89°44'24" E, a distance of 615.00 feet to the Point of Beginning.

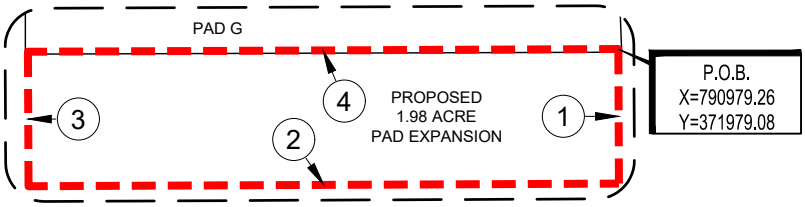
NE/4 NW/4 86,100 square feet or 1.98 acres

LINE TABLE

LINE	BEARING	DISTANCE
1	S 00°15'36" E	140.00'
2	S 89°44'24" W	615.00'
3	N 00°15'36" W	140.00'
4	N 89°44'24" E	615.00'

LEGEND

- TOWNSHIP/RANGE LINE
- SECTION LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE
- TRACT BORDER
- PROPOSED SITE
- ROAD WAY
- X — FENCE LINE
- EXISTING PIPELINE
- GAS — EXISTING GAS LINE
- OHE — OVERHEAD ELECTRIC
- FO — FIBER OPTIC LINE
- CALCULATED POINT
- MONUMENT FOUND



DETAIL VIEW
SCALE: 1" = 200'

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/29/2025 10:47:25 AM

Ramon A. Dominguez, P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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PEACHTREE 24 FED COM 208H/508H/207H/108H PAD EXPANSION	REVISION: INT	DATE
DATE: 07/01/2025		
FILE: BO_PEACHTREE_24_FED_COM_208H_508H_207H_108H_PAD_EXPANSION		
DRAWN BY: CAR		
SHEET : 1 OF 1		

NOTES:
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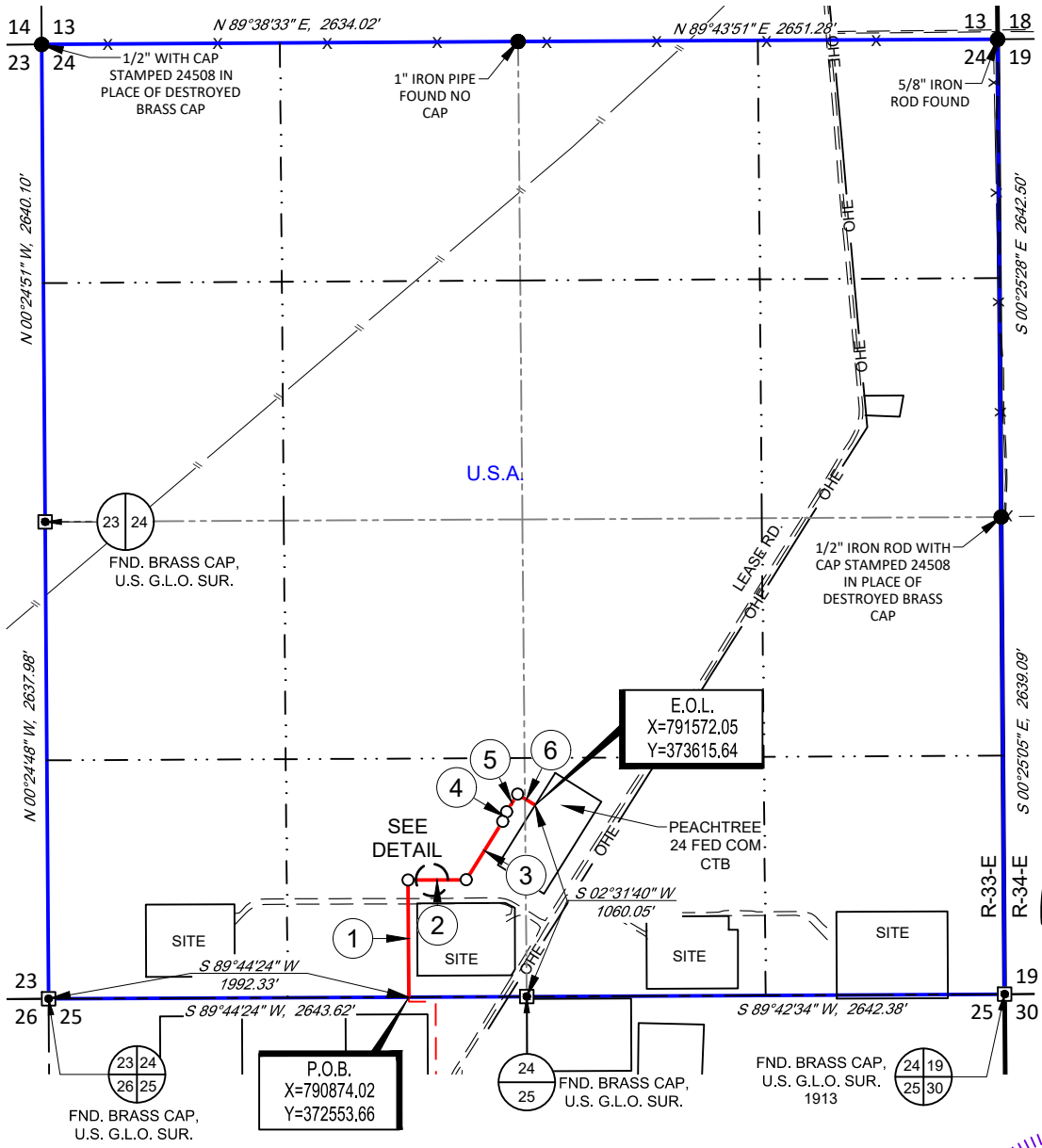
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
4. P.O.B. = POINT OF BEGINNING

S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\BO_PEACHTREE_24_FED_COM_208H_508H_207H_108H_PAD_EXPANSION.DWG 7/29/2025 10:47:25 AM caleb.otten

SCALE: 1" = 1000'
0' 500' 1000'

SECTION 24, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

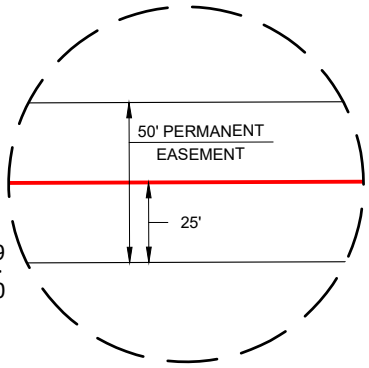


LEGEND

- TOWNSHIP/RANGE LINE
- SECTION LINE
- SURVEYED BASELINE
- CONTINUED BASELINE
- TRACT BORDER
- EDGE OF EASEMENT
- ROAD WAY
- FENCE LINE
- EXISTING PIPELINE
- OVERHEAD ELECTRIC
- POINT OF INTERSECTION
- MONUMENT
- CALCULATED CORNER
- IRON ROD FOUND

LINE TABLE

LINE	BEARING	DISTANCE
1	N 00°29'30" W	647.72'
2	N 89°47'07" E	322.21'
3	N 31°57'02" E	380.54'
4	N 21°57'02" E	57.64'
5	N 31°57'02" E	115.01'
6	S 58°02'58" E	115.01'



DETAIL VIEW
SCALE: 1" = 60'

PEACHTREE 24 FED COM 206H/507H/107H/581H FLOWLINE/GAS LIFT/FIBER OPTIC

Being a proposed flowline easement being 50 feet in width, 25 feet left, and 25 feet right of the above platted centerline total line footage containing 1638.13 feet or 99.28 rods, containing 1.88 acres more or less.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/29/2025 12:39:51 PM

Ramon A. Dominguez, P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, STE. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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PEACHTREE 24 FED COM COM 206H/507H/107H/581H FLOWLINE/GAS LIFT/ FIBER OPTIC	REVISION:	
	INT	DATE
DATE: 06/30/2025		
FILE: EP_PEACHTREE_24_FED_COM_206H-507H-107H-581H_FL_GL_FO_SEC_24		
DRAWN BY: TCG		
SHEET : 1 OF 1		

NOTES:
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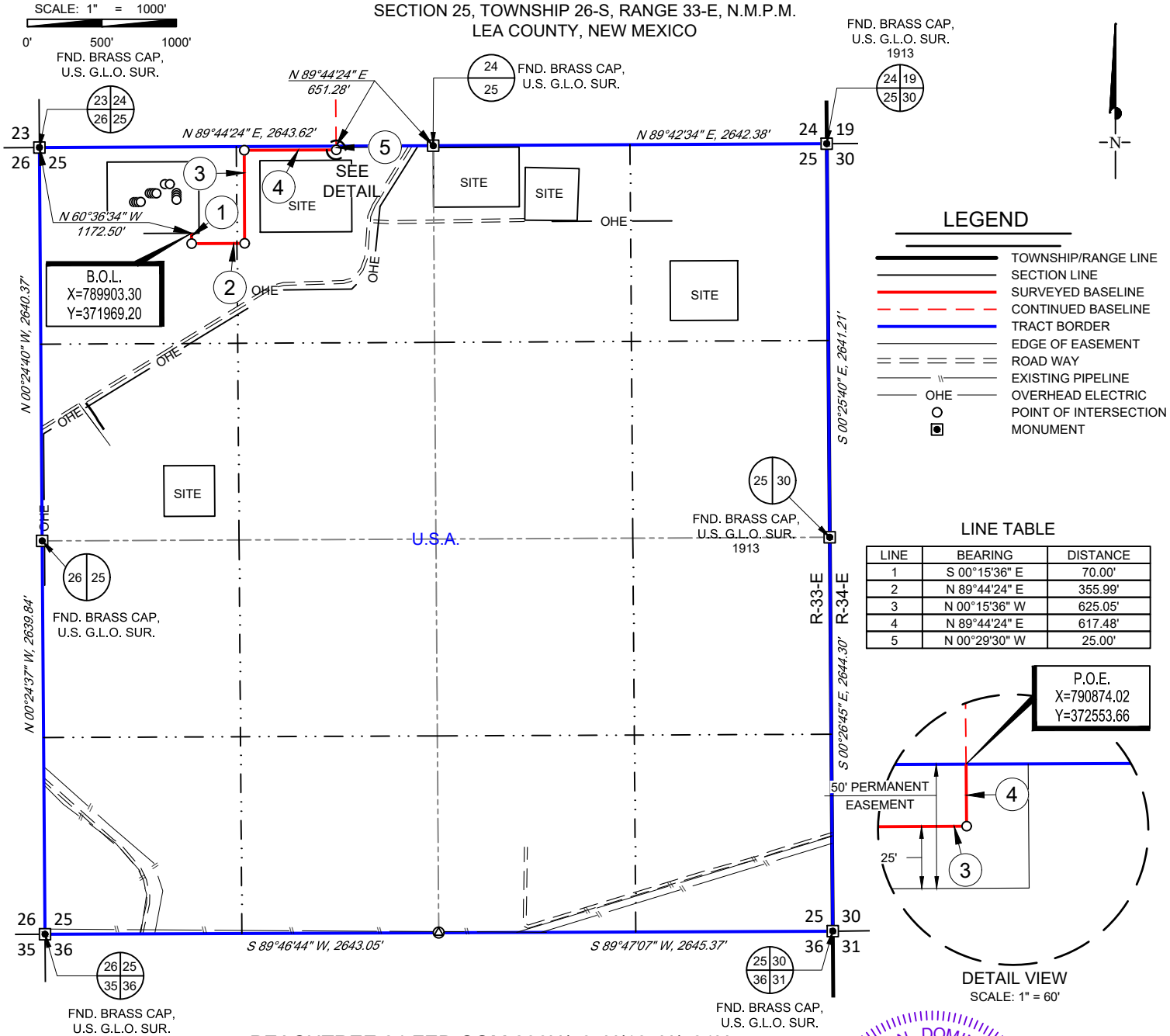
5. E.O.L./P.O.E. = END OF LINE/POINT OF EXIT
6. ADJOINER INFORMATION FOR INFORMATIONAL PURPOSES ONLY

S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\EP_PEACHTREE_24_FED_COM_206H-507H-107H-581H_FL_GL_FO_SEC_24.DWG 7/29/2025 12:39:50 PM russell.waterman

SCALE: 1" = 1000'

0' 500' 1000'

SECTION 25, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LINE TABLE

LINE	BEARING	DISTANCE
1	S 00°15'36" E	70.00'
2	N 89°44'24" E	355.99'
3	N 00°15'36" W	625.05'
4	N 89°44'24" E	617.48'
5	N 00°29'30" W	25.00'

PEACHTREE 24 FED COM 206H/507H/107H/581H
FLOWLINE/GAS LIFT/FIBER OPTIC

Being a proposed flowline easement being 50 feet in width, 25 feet left, and 25 feet right of the above platted centerline total line footage containing 1693.52 feet or 102.64 rods, containing 1.94 acres more or less.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/29/2025 12:41:16 PM

Ramon A. Dominguez, P.S. No. 24508

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LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, STE. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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PEACHTREE 24 FED COM COM 206H/507H/107H/581H FLOWLINE/GAS LIFT/ FIBER OPTIC	REVISION: INT	DATE
DATE: 06/30/2025		
FILE: EP_PEACHTREE_24_FED_COM_206H-507H-107H-581H_FL_GL_FO_SEC_25		
DRAWN BY: TCG		
SHEET : 1 OF 1		

NOTES:
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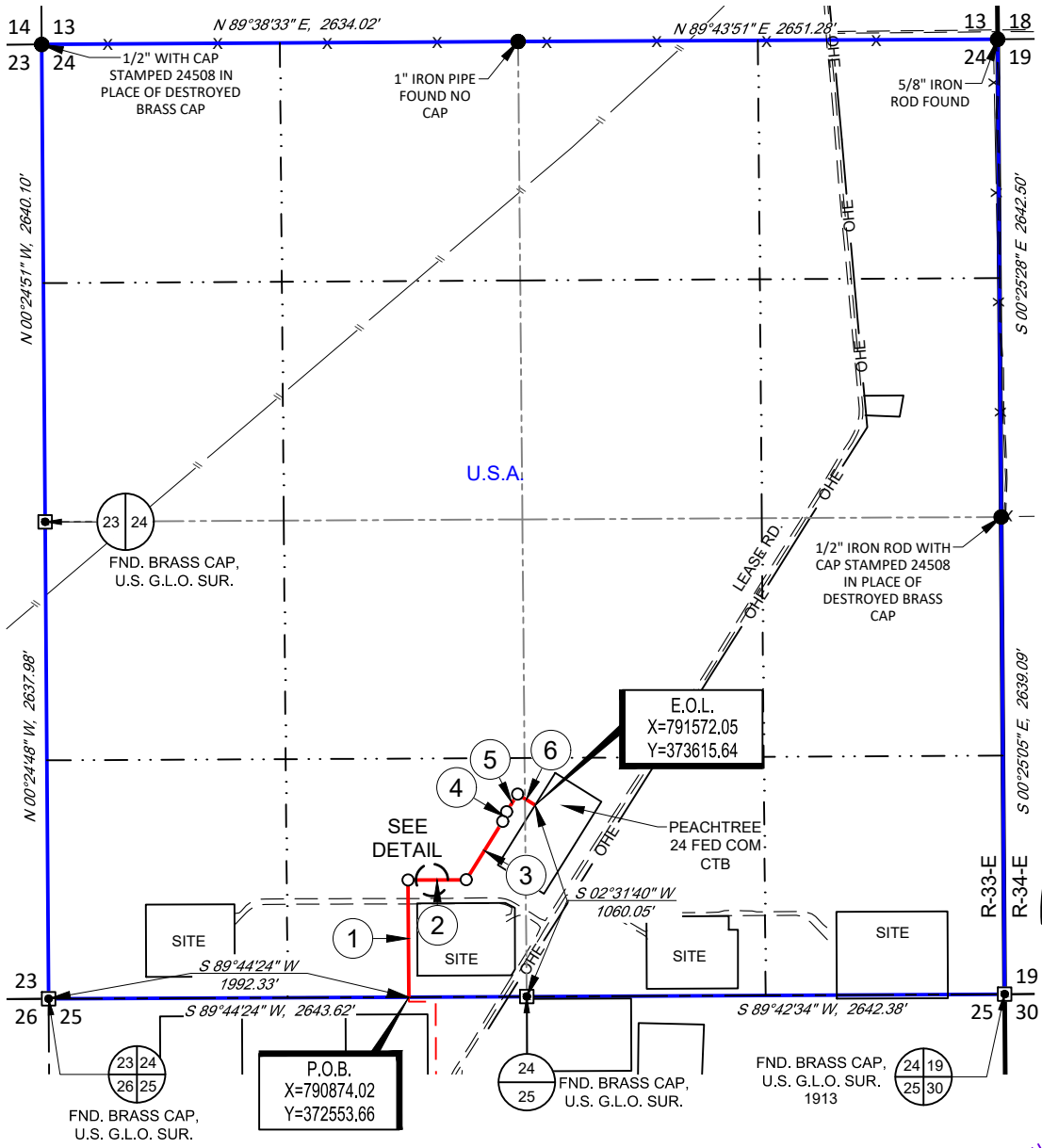
6. ADJOINER INFORMATION FOR INFORMATIONAL PURPOSES ONLY

S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\EP_PEACHTREE_24_FED_COM_206H-507H-107H-581H_FL_GL_FO_SEC_25.DWG 7/29/2025 12:41:16 PM russell.waterman

SCALE: 1" = 1000'
0' 500' 1000'

SECTION 24, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEGEND

- TOWNSHIP/RANGE LINE
- SECTION LINE
- SURVEYED BASELINE
- CONTINUED BASELINE
- TRACT BORDER
- EDGE OF EASEMENT
- ROAD WAY
- FENCE LINE
- EXISTING PIPELINE
- OVERHEAD ELECTRIC
- POINT OF INTERSECTION
- MONUMENT
- CALCULATED CORNER
- IRON ROD FOUND

LINE TABLE

LINE	BEARING	DISTANCE
1	N 00°29'30" W	647.72'
2	N 89°47'07" E	322.21'
3	N 31°57'02" E	380.54'
4	N 21°57'02" E	57.64'
5	N 31°57'02" E	115.01'
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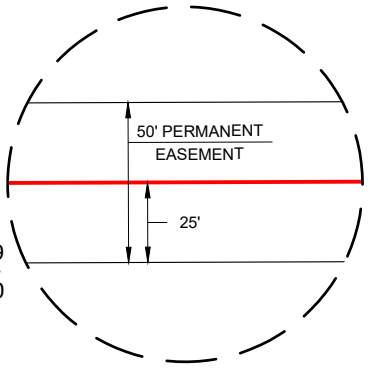

DETAIL VIEW
SCALE: 1" = 60'

PEACHTREE 24 FED COM 206H/507H/107H/581H
4 INCH ABOVE GROUND FUEL GAS LINE

Being a proposed fuel gas easement being 50 feet in width, 25 feet left, and 25 feet right of the above platted centerline total line footage containing 1638.13 feet or 99.28 rods, containing 1.88 acres more or less.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/29/2025 12:36:17 PM

Ramon A. Dominguez, P.S. No. 24508

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eog resources, Inc.

PEACHTREE 24 FED COM COM 206H/507H/107H/581H 4 INCH ABOVE GROUND FUEL LINE	REVISION: INT	DATE
DATE: 06/30/2025		
FILE: EP_PEACHTREE_24_FED_COM_206H-507H-107H-581H_4_IN_FUEL_GAS_SEC_24		
DRAWN BY: TCG		
SHEET : 1 OF 1		

NOTES:
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2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
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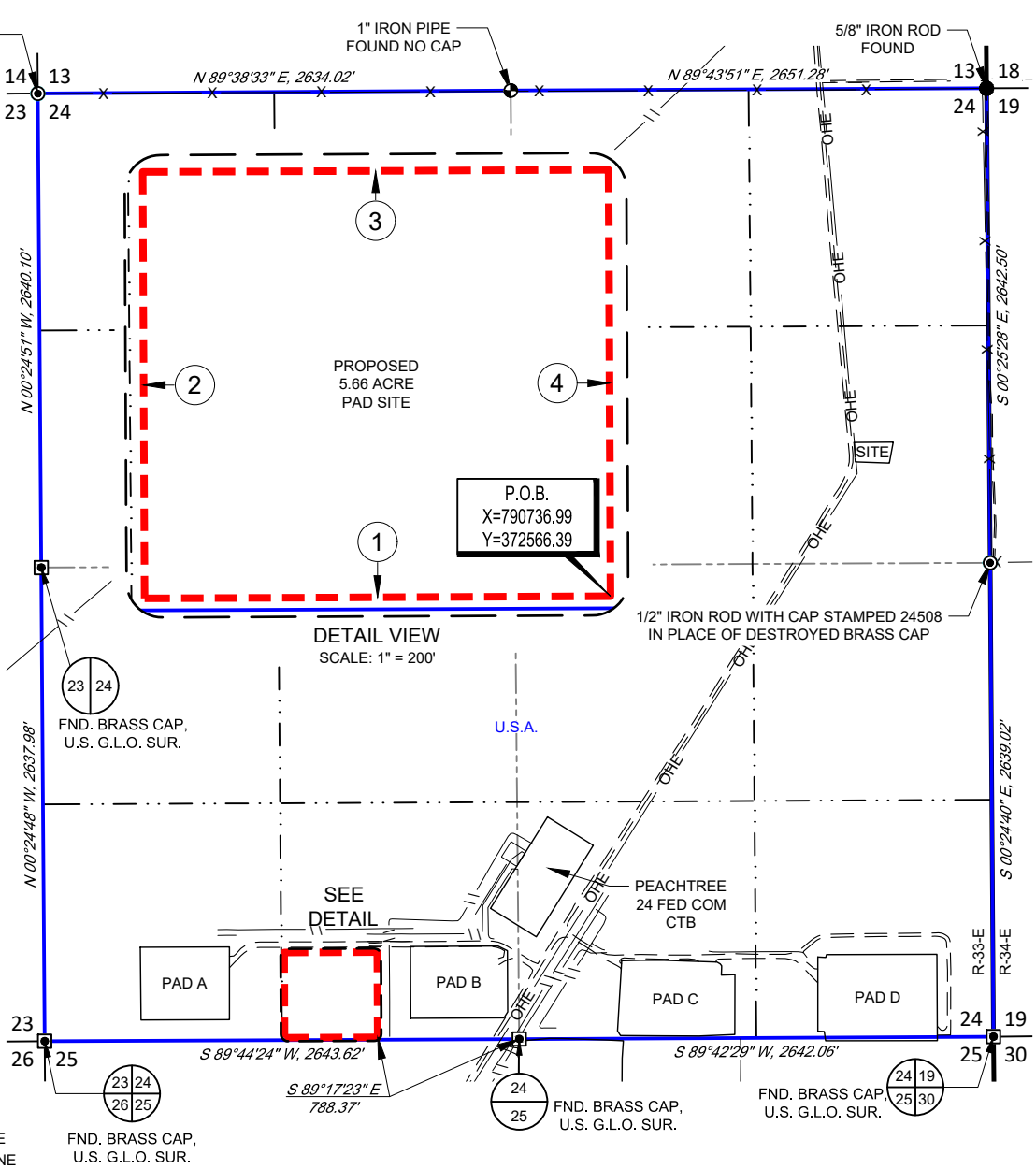
S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\EP_PEACHTREE_24_FED_COM_206H-507H-107H-581H_4_IN_FUEL_GAS_SEC_24.DWG 7/29/2025 12:36:17 PM russell.waterman

SCALE: 1" = 1000'
0' 500' 1000'

SECTION 24, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



PEACHTREE 24 FED COM
591H/592H/593H/594H PAD

Metes and Bounds Description of a proposed 5.66 acre site within Section 24, Township 26 South, Range 33 East, N.M.P.M., in Lea County, New Mexico.

BEGINNING at a point being the Southeast corner of this site, from which a brass cap found for the South Quarter corner of said Section 24, bears: S 89°17'23" E, a distance of 788.37 feet;

Thence S 89°44'24" W, a distance of 519.00 feet to a point for the Southwest corner of this site;

Thence N 00°15'36" W, a distance of 475.00 feet to a point for the Northwest corner of this site;

Thence N 89°44'24" E, a distance of 519.00 feet to a point for the Northeast corner of this site;

Thence S 00°15'36" E, a distance of 475.00 feet to the Point of Beginning.

SE/4 SW/4 246,525 square feet or 5.66 acres

LINE TABLE

LINE	BEARING	DISTANCE
1	S 89°44'24" W	519.00'
2	N 00°15'36" W	475.00'
3	N 89°44'24" E	519.00'
4	S 00°15'36" E	475.00'

LEGEND

- TOWNSHIP/RANGE LINE
- SECTION LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE
- TRACT BORDER
- PROPOSED SITE
- ROAD WAY
- FENCE LINE
- EXISTING PIPELINE
- OVERHEAD ELECTRIC
- IRON ROD SET
- IRON ROD FOUND
- IRON PIPE FOUND
- MONUMENT FOUND

RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

7/29/2025 10:50:04 AM

Ramon A. Dominguez, P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
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PEACHTREE 24 FED COM 591H/592H/593H/594H PAD	REVISION: INT	DATE
DATE: 07/01/2025		
FILE: BO_PEACHTREE_24_FED_COM_591H_592H_593H_594H_PAD		
DRAWN BY: CAR		
SHEET : 1 OF 1		

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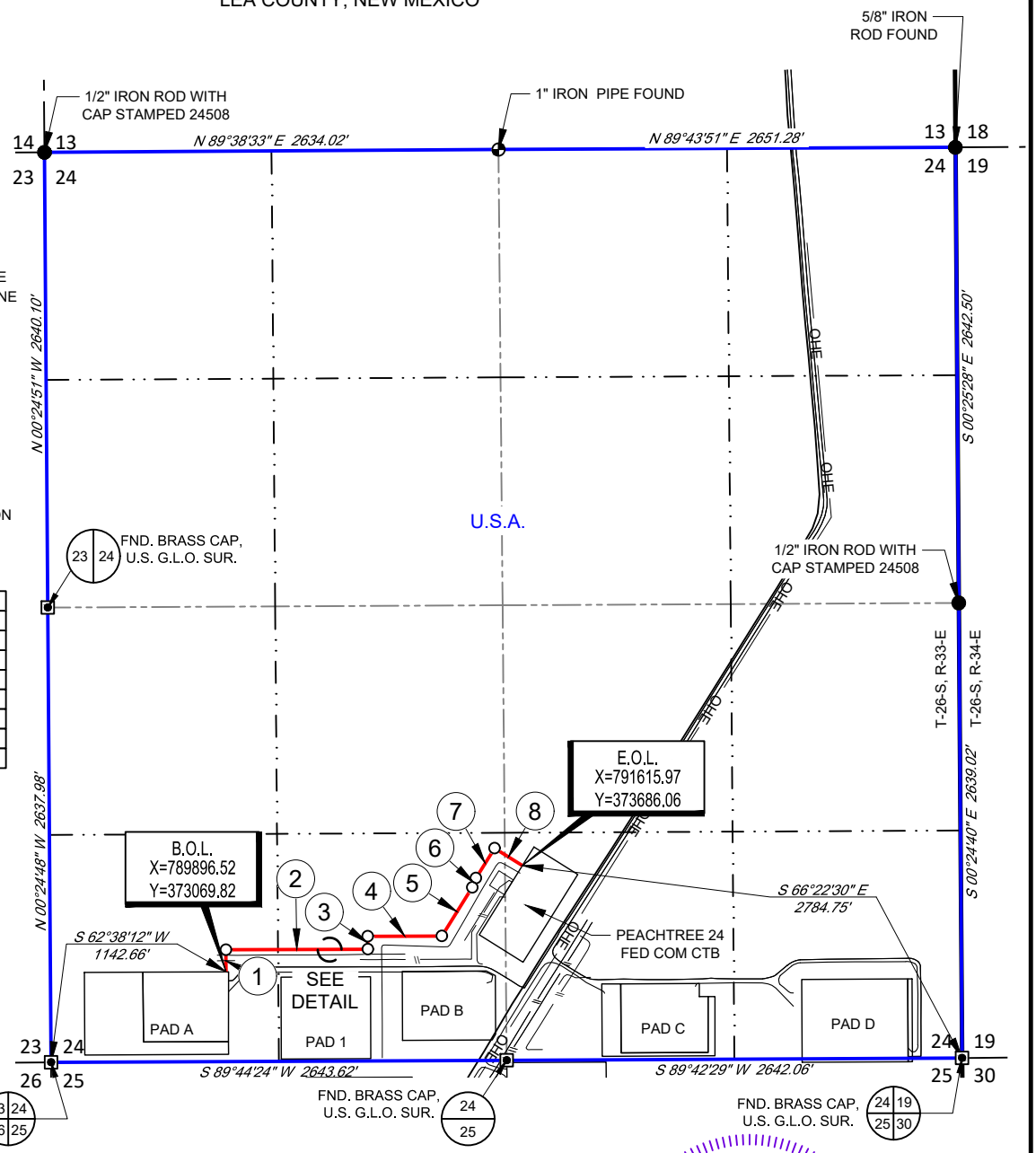
4. P.O.B. = POINT OF BEGINNING

S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\BO_PEACHTREE_24_FED_COM_591H_592H_593H_594H_PAD.DWG 7/29/2025 10:50:04 AM caleb.otten

SCALE: 1" = 1000'
0' 500' 1000'

N

SECTION 24, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

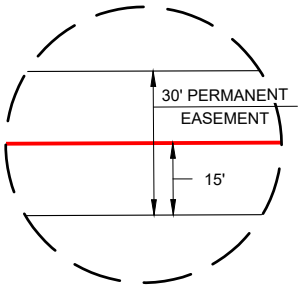


LEGEND

- TOWNSHIP LINE
- SECTION LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE
- SURVEYED BASELINE
- TRACT BORDER
- EDGE OF EASEMENT
- ROAD WAY
- FENCE LINE
- EXISTING PIPELINE
- OVERHEAD ELECTRIC
- WATER LINE
- MONUMENT
- IRON ROD
- POINT OF INTERSECTION
- IRON PIPE

LINE TABLE

LINE	BEARING	DISTANCE
1	N 00°15'36" W	127.90'
2	N 89°47'07" E	823.18'
3	N 00°15'36" W	75.00'
4	N 89°47'07" E	430.20'
5	N 31°57'02" E	332.54'
6	N 21°57'02" E	57.64'
7	N 31°57'02" E	204.58'
8	S 58°02'58" E	190.01'



DETAIL VIEW
SCALE: 1" = 40'

PEACHTREE 24 FED COM 571H/572H/573H/574H FLOWLINE/GAS LIFT/FIBER OPTIC

Being a proposed flowline/gas lift/fiber optic easement being 30 feet in width, 15 feet left and 15 feet right of the above platted centerline total line footage containing 2,241.04 feet or 135.82 rods, containing 1.54 acres more or less.

RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

7/29/2025 12:59:50 PM

Ramon A. Dominguez P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, STE. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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PEACHTREE 24 FED COM 571H/572H/573H/574H FLOWLINE/GAS LIFT/FIBER OPTIC	REVISION:
DATE: 06/30/2025	
FILE: EP_PEACHTREE_24_FED_COM_571H_572H_573H_574H_FL_GL_FO	
DRAWN BY: MLW	
SHEET : 1 OF 1	

NOTES:
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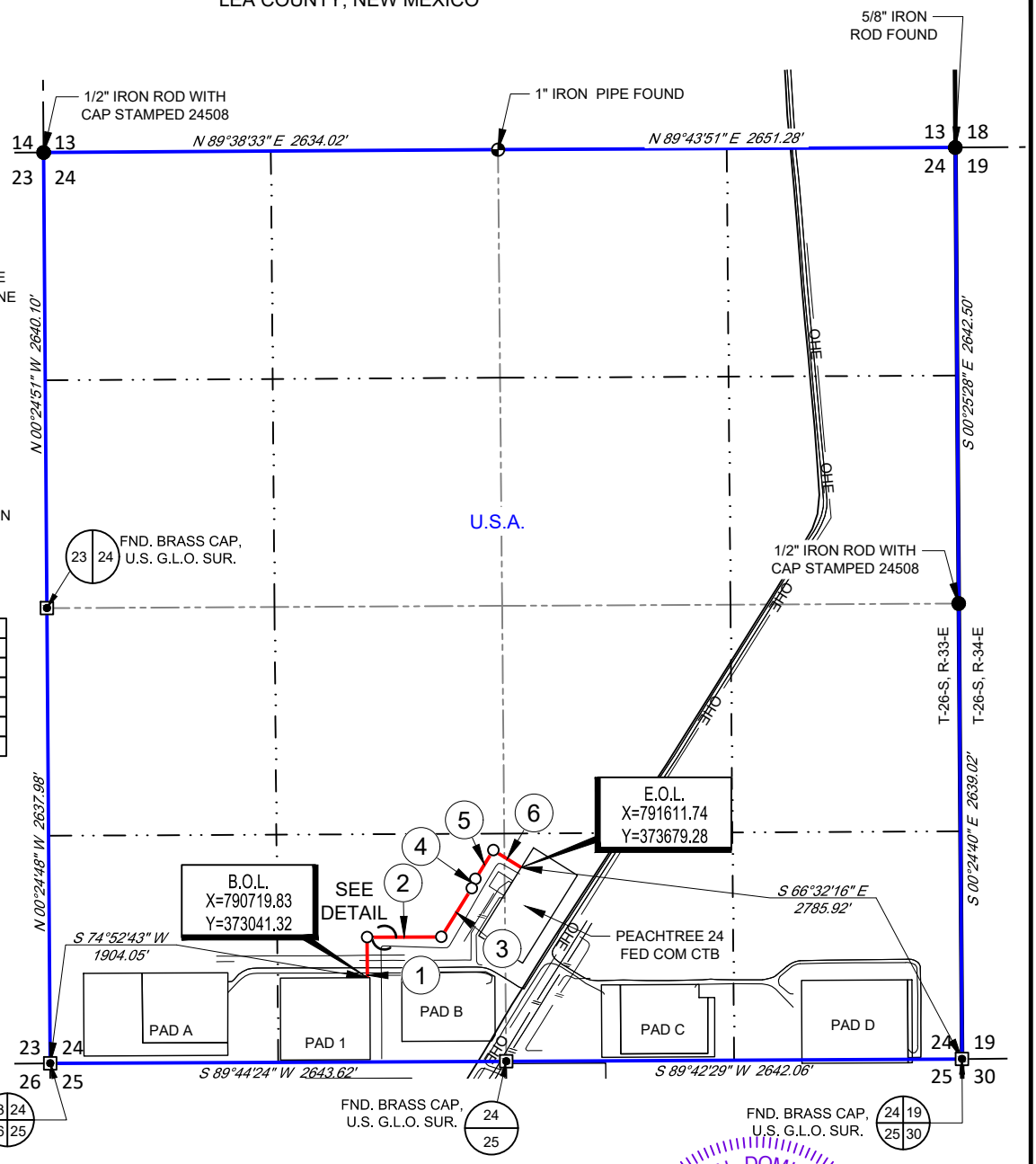
6. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.

S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\EP_PEACHTREE_24_FED_COM_571H_572H_573H_574H_FL_GL_FO.DWG 7/29/2025 12:59:49 PM russell.waterman

SCALE: 1" = 1000'
0' 500' 1000'

N

SECTION 24, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEGEND

- TOWNSHIP LINE
- SECTION LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE
- SURVEYED BASELINE
- TRACT BORDER
- EDGE OF EASEMENT
- ROAD WAY
- FENCE LINE
- EXISTING PIPELINE
- OVERHEAD ELECTRIC
- WATER LINE
- MONUMENT
- IRON ROD
- POINT OF INTERSECTION
- IRON PIPE

LINE TABLE

LINE	BEARING	DISTANCE
1	N 00°15'36" W	234.48'
2	N 89°47'07" E	430.20'
3	N 31°57'02" E	332.54'
4	N 21°57'02" E	57.64'
5	N 31°57'02" E	196.58'
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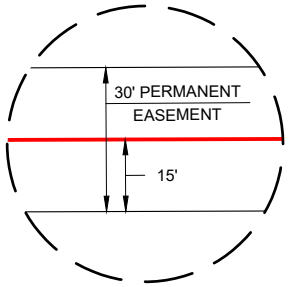

DETAIL VIEW
SCALE: 1" = 40'

PEACHTREE 24 FED COM 591H/592H/593H/594H 4 INCH ABOVE GROUND FUEL LINE

Being a proposed fuel line easement being 30 feet in width, 15 feet left and 15 feet right of the above platted centerline total line footage containing 1,441.45 feet or 87.36 rods, containing 0.99 acres more or less.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/29/2025 1:01:31 PM
Ramon A. Dominguez P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, STE. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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PEACHTREE 24 FED COM 591H/592H/593H/594H 4 INCH ABOVE GROUND FUEL LINE	REVISION:
DATE: 07/01/2025	
FILE: EP_PEACHTREE_24_FED_COM_591H_592H_593H_594H_4_INCH_ABOVE_GROUND_FL	
DRAWN BY: MLW	
SHEET : 1 OF 1	

NOTES:
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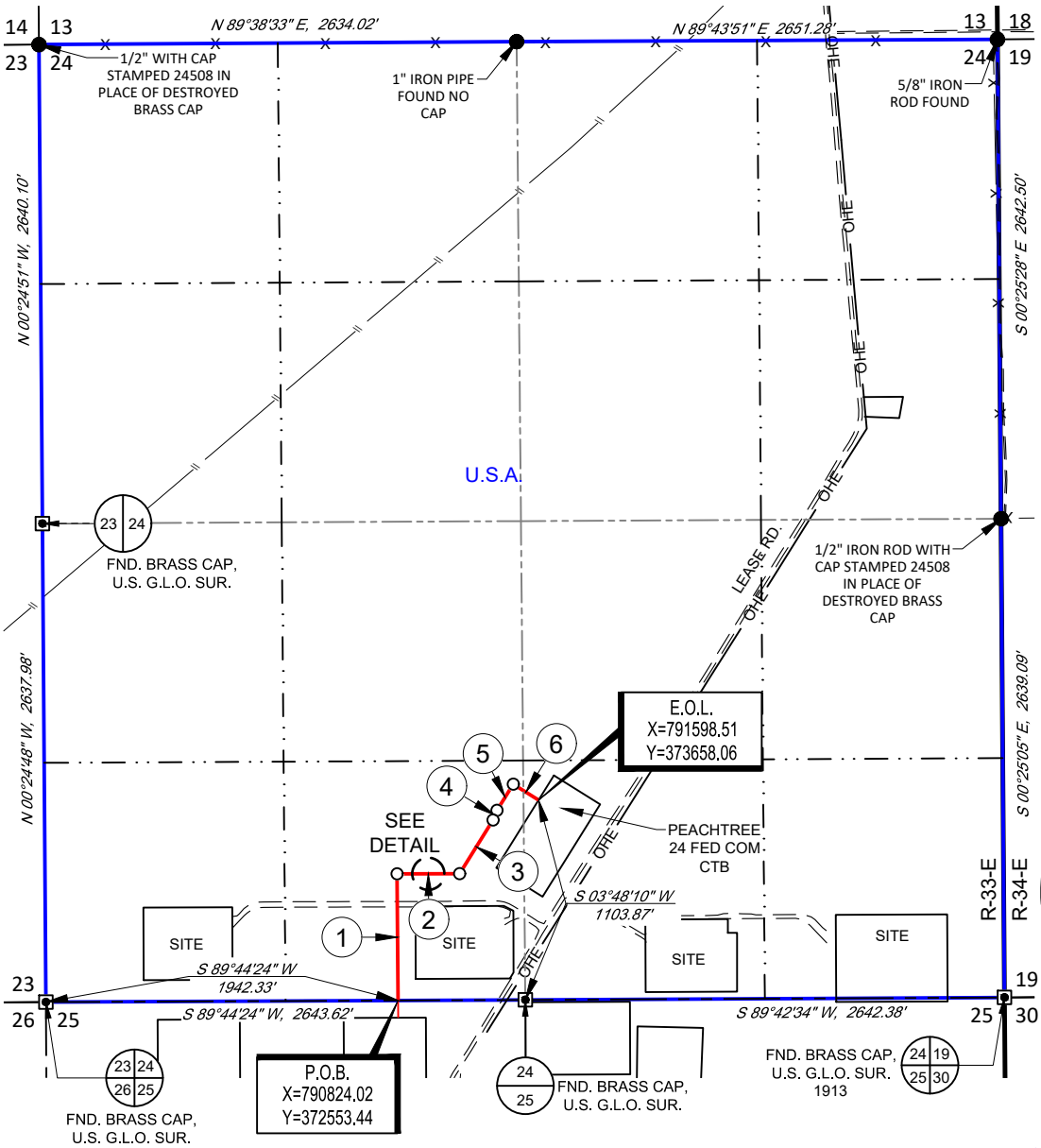
S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\EP_PEACHTREE_24_FED_COM_591H_592H_593H_594H_4_INCH_ABOVE_GROUND_FL.DWG 7/29/2025 1:01:30 PM russell.waterman

SCALE: 1" = 1000'
0' 500' 1000'

SECTION 24, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



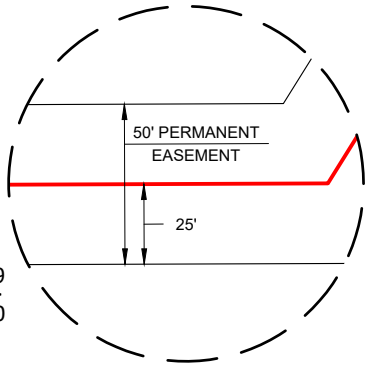
N

LEGEND

- TOWNSHIP/RANGE LINE
- SECTION LINE
- SURVEYED BASELINE
- CONTINUED BASELINE
- TRACT BORDER
- EDGE OF EASEMENT
- ROAD WAY
- X — FENCE LINE
- EXISTING PIPELINE
- OHE — OVERHEAD ELECTRIC
- POINT OF INTERSECTION
- MONUMENT
- CALCULATED CORNER
- IRON ROD FOUND

LINE TABLE

LINE	BEARING	DISTANCE
1	N 00°29'30" W	697.76'
2	N 89°47'07" E	344.84'
3	N 31°57'02" E	348.54'
4	N 21°57'02" E	57.64'
5	N 31°57'02" E	169.39'
6	S 58°02'58" E	165.01'



DETAIL VIEW
SCALE: 1" = 60'

PEACHTREE 24 FED COM 208H/508H/207H/108H
4 INCH ABOVE GROUND FUEL LINE

Being a proposed fuel gas easement being 50 feet in width, 25 feet left, and 25 feet right of the above platted centerline total line footage containing 1783.18 feet or 108.07 rods, containing 2.05 acres more or less.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/29/2025 12:42:42 PM

Ramon A. Dominguez, P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, STE. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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PEACHTREE 24 FED COM 208H/508H/207H/108H 4 INCH ABOVE GROUND FUEL LINE	REVISION: INT	DATE
DATE: 06/30/2025		
FILE: EP_PEACHTREE_24_FED_COM_208H-508H-207H-108H_4_IN_FUEL_GAS_SEC_24		
DRAWN BY: TCG		
SHEET : 1 OF 1		

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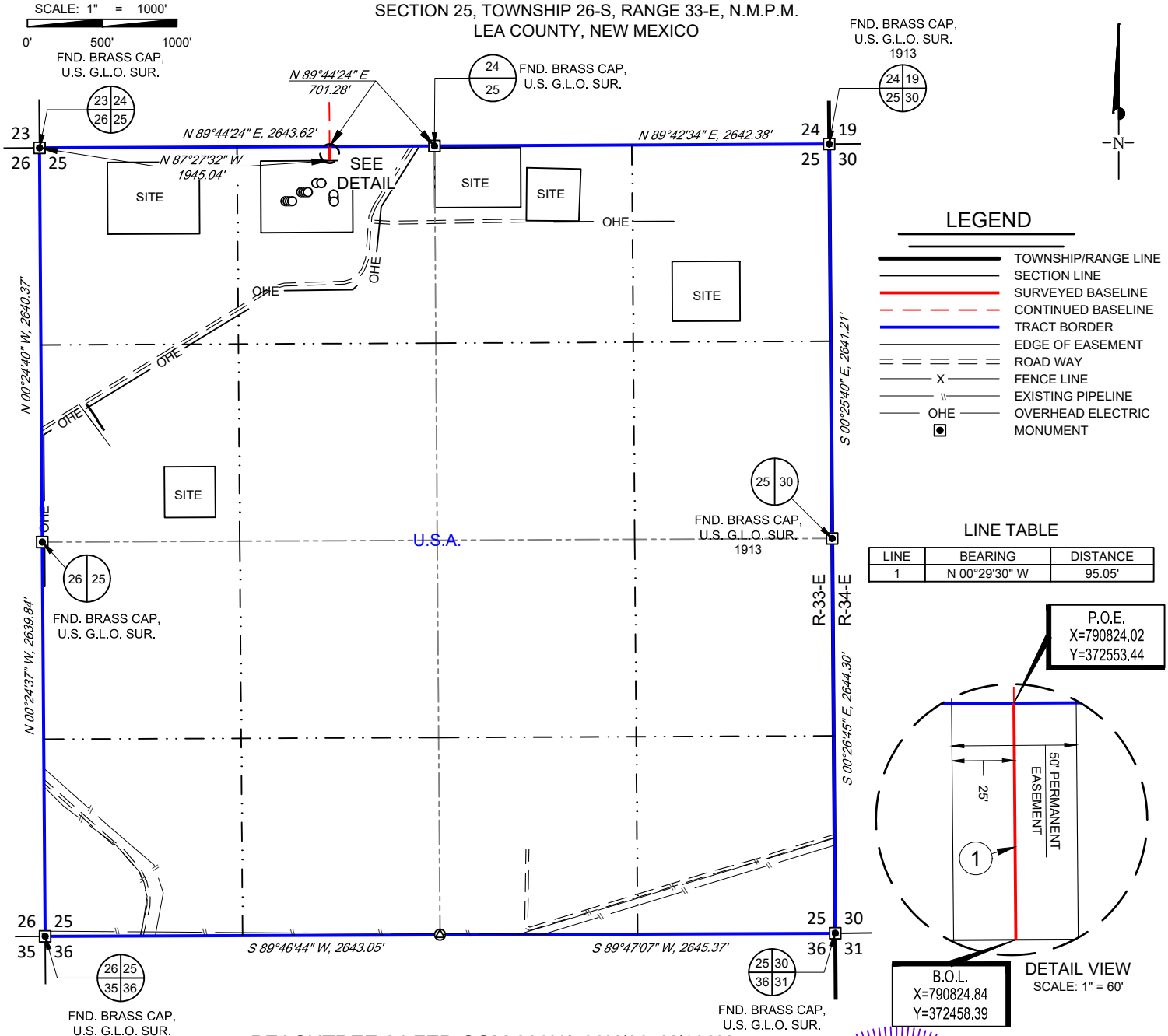
S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\EP_PEACHTREE_24_FED_COM_208H-508H-207H-108H_4_IN_FUEL_GAS_SEC_24.DWG 7/29/2025 12:42:41 PM russell.waterman

SCALE: 1" = 1000'
0' 500' 1000'

SECTION 25, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LINE TABLE

LINE	BEARING	DISTANCE
1	N 00°29'30" W	95.05'

PEACHTREE 24 FED COM 208H/508H/207H/108H
4 INCH ABOVE GROUND FUEL LINE

Being a proposed fuel gas easement being 50 feet in width, 25 feet left, and 25 feet right of the above platted centerline total line footage containing 95.08 feet or 5.76 rods, containing 0.11 acres more or less.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/29/2025 12:44:07 PM

Ramon A. Dominguez, P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, STE. 200 • BENBROOK, TEXAS 76126
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PEACHTREE 24 FED COM 208H/508H/207H/108H 4 INCH ABOVE GROUND FUEL LINE	REVISION:	
	INT	DATE
DATE: 06/30/2025		
FILE: EP_PEACHTREE_24_FED_COM_208H-508H-207H-108H_4_IN_FUEL_GAS_SEC_25		
DRAWN BY: TCG		
SHEET : 1 OF 1		

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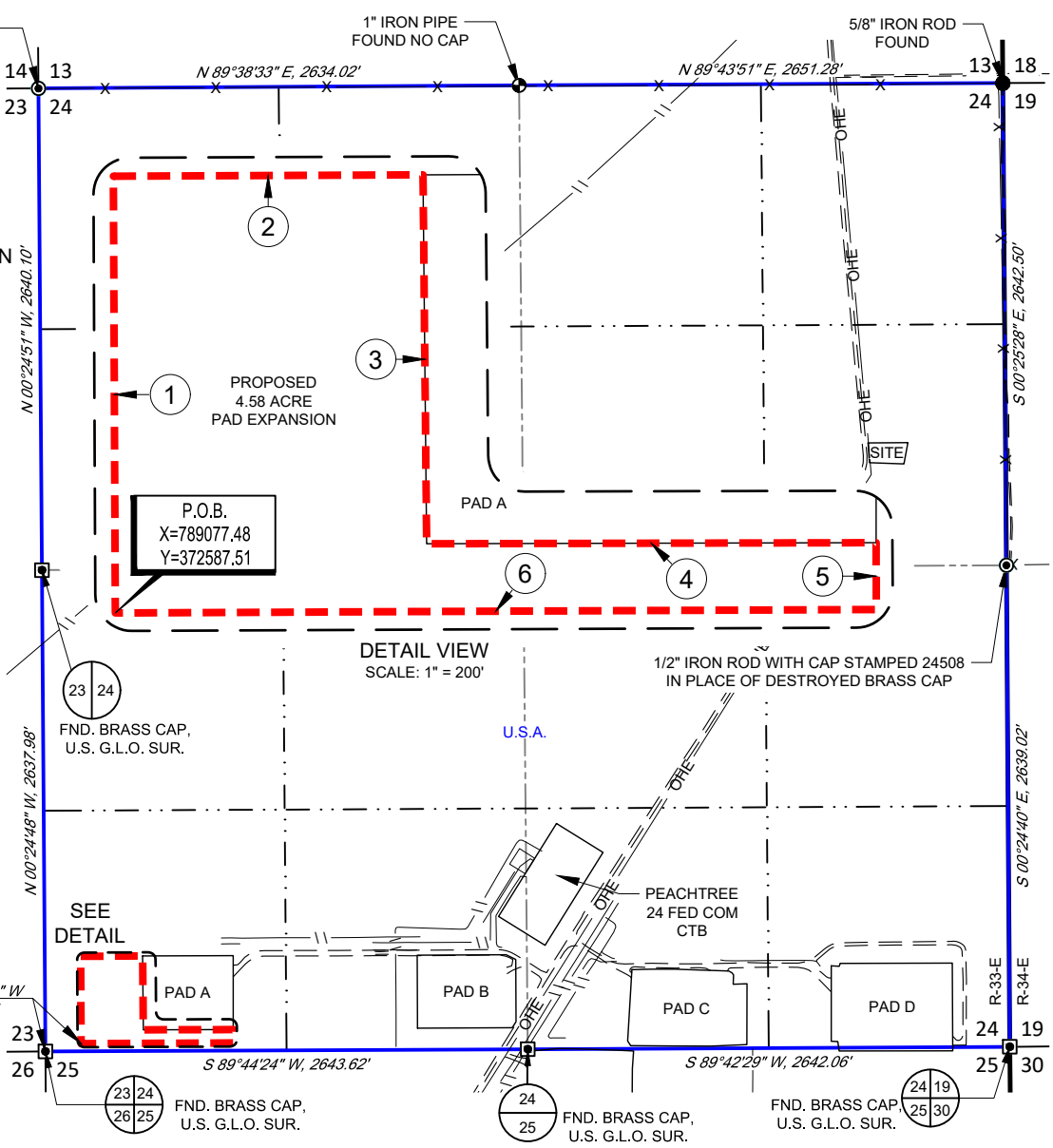
S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\EP_PEACHTREE_24_FED_COM_208H-508H-207H-108H_4_IN_FUEL_GAS_SEC_25.DWG 7/29/2025 12:44:07 PM russell.waterman

SCALE: 1" = 1000'

0' 500' 1000'

SECTION 24, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



PEACHTREE 24 FED COM
571H/572H/573H/574H PAD EXPANSION

Metes and Bounds Description of a proposed 4.58 acre site within Section 24, Township 26 South, Range 33 East, N.M.P.M., in Lea County, New Mexico.

BEGINNING at a point being the Southwest corner of this site, from which a brass cap found for the Southwest corner of said Section 24, bears: S 77°38'29" W, a distance of 200.42 feet;

Thence N 00°15'36" W, a distance of 478.65 feet to a point for the Northwest corner of this site;

Thence N 89°44'24" E, a distance of 339.42 feet to a point for the most Northerly Northeast corner of this site;

Thence S 00°33'55" E, a distance of 404.39 feet to a point for an interior ell corner of this site;

Thence N 89°51'37" E, a distance of 492.54 feet to a point for the most Easterly Northeast corner of this site;

Thence S 00°15'36" E, a distance of 73.23 feet to a point for the Southeast corner of this site;

Thence S 89°44'24" W, a distance of 834.10 feet to the Point of Beginning.

SW/4 SW/4 199,380 square feet or 4.58 acres

LINE TABLE

LINE	BEARING	DISTANCE
1	N 00°15'36" W	478.65'
2	N 89°44'24" E	339.42'
3	S 00°33'55" E	404.39'
4	N 89°51'37" E	492.54'
5	S 00°15'36" E	73.23'
6	S 89°44'24" W	834.10'

LEGEND

- TOWNSHIP/RANGE LINE
- SECTION LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE
- TRACT BORDER
- PROPOSED SITE
- ROAD WAY
- FENCE LINE
- EXISTING PIPELINE
- OVERHEAD ELECTRIC
- IRON ROD SET
- IRON ROD FOUND
- IRON PIPE FOUND
- MONUMENT FOUND

RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

7/29/2025 10:46:08 AM

Ramon A. Dominguez, P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
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eog resources, inc.

PEACHTREE 24 FED COM 571H/572H/573H/574H PAD EXPANSION	REVISION: INT	DATE
DATE: 07/01/2025		
FILE: BO_PEACHTREE_24_FED_COM_571H_572H_573H_574H_PAD_EXPANSION		
DRAWN BY: CAR		
SHEET : 1 OF 1		

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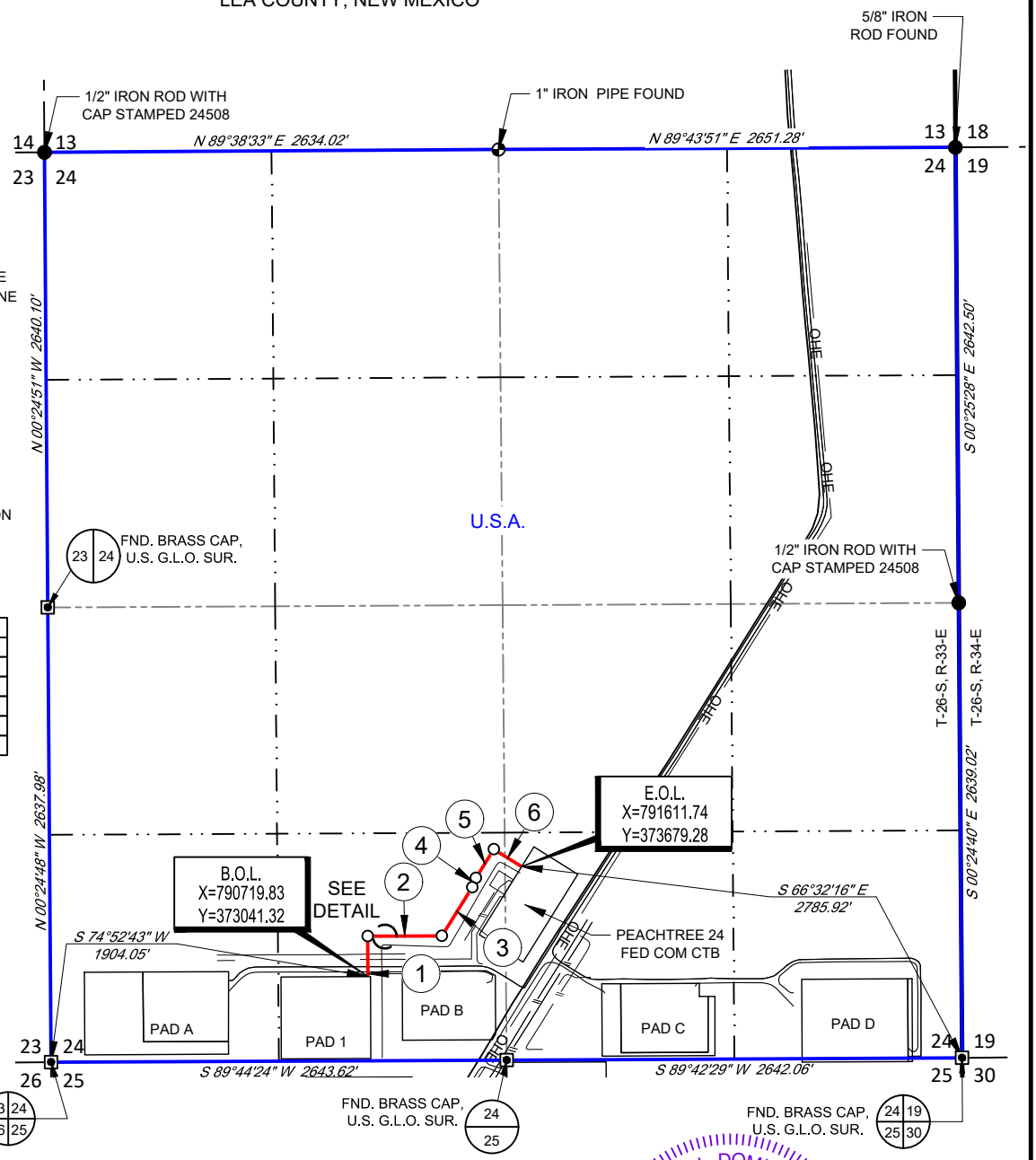
S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\BO_PEACHTREE_24_FED_COM_571H_572H_573H_574H_PAD_EXPANSION.DWG 7/29/2025 10:46:08 AM caleb.otten

SCALE: 1" = 1000'

0' 500' 1000'

N

SECTION 24, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEGEND

- TOWNSHIP LINE
- SECTION LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE
- SURVEYED BASELINE
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LINE TABLE

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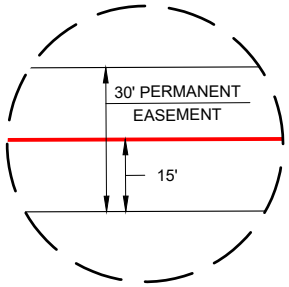

DETAIL VIEW
SCALE: 1" = 40'

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RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/29/2025 1:02:54 PM

Ramon A. Dominguez P.S. No. 24508

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DATE: 07/01/2025	
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DRAWN BY: MLW	
SHEET : 1 OF 1	

NOTES:
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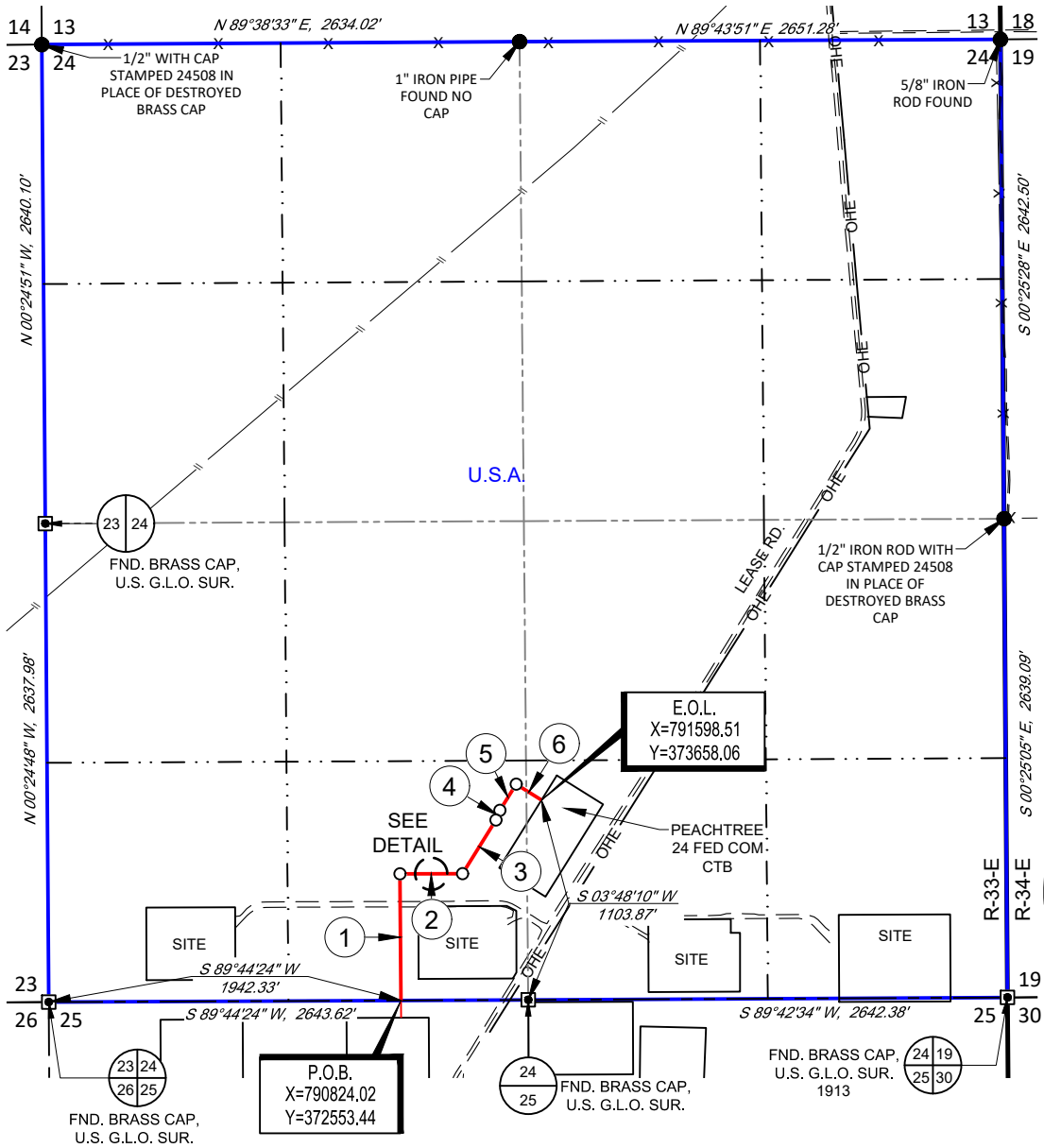
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
4. B.O.L./P.O.B. = BEGINNING OF LINE/POINT OF BEGINNING
5. E.O.L./P.O.E. = END OF LINE/POINT OF EXIT
6. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.

S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\EP_PEACHTREE_24_FED_COM_591H_592H_593H_594H_FL_GL_FO.DWG 7/29/2025 1:02:54 PM russell.waterman

SCALE: 1" = 1000'
0' 500' 1000'

SECTION 24, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

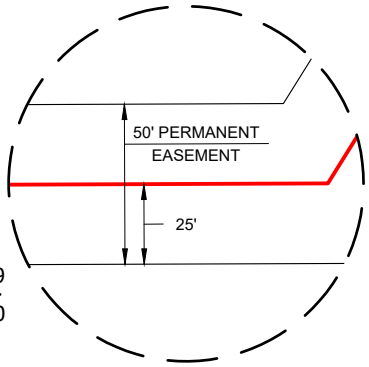


LEGEND

- TOWNSHIP/RANGE LINE
- SECTION LINE
- SURVEYED BASELINE
- CONTINUED BASELINE
- TRACT BORDER
- EDGE OF EASEMENT
- ROAD WAY
- FENCE LINE
- EXISTING PIPELINE
- OVERHEAD ELECTRIC
- POINT OF INTERSECTION
- MONUMENT
- CALCULATED CORNER
- IRON ROD FOUND

LINE TABLE

LINE	BEARING	DISTANCE
1	N 00°29'30" W	697.76'
2	N 89°47'07" E	344.84'
3	N 31°57'02" E	348.54'
4	N 21°57'02" E	57.64'
5	N 31°57'02" E	169.39'
6	S 58°02'58" E	165.01'



DETAIL VIEW
SCALE: 1" = 60'

PEACHTREE 24 FED COM 208H/508H/207H/108H FLOWLINE/GAS LIFT/FIBER OPTIC

Being a proposed flowline easement being 50 feet in width, 25 feet left, and 25 feet right of the above platted centerline total line footage containing 1783.18 feet or 108.07 rods, containing 2.05 acres more or less.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/29/2025 12:45:30 PM

Ramon A. Dominguez, P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, STE. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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eog resources, Inc.

PEACHTREE 24 FED COM 208H/508H/207H/108H FLOWLINE/GAS LIFT/ FIBER OPTIC	REVISION:	
	INT	DATE
DATE: 06/30/2025		
FILE: EP_PEACHTREE_24_FED_COM_208H-508H-207H-108H_FL_GL_FO_SEC_24		
DRAWN BY: TCG		
SHEET : 1 OF 1		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
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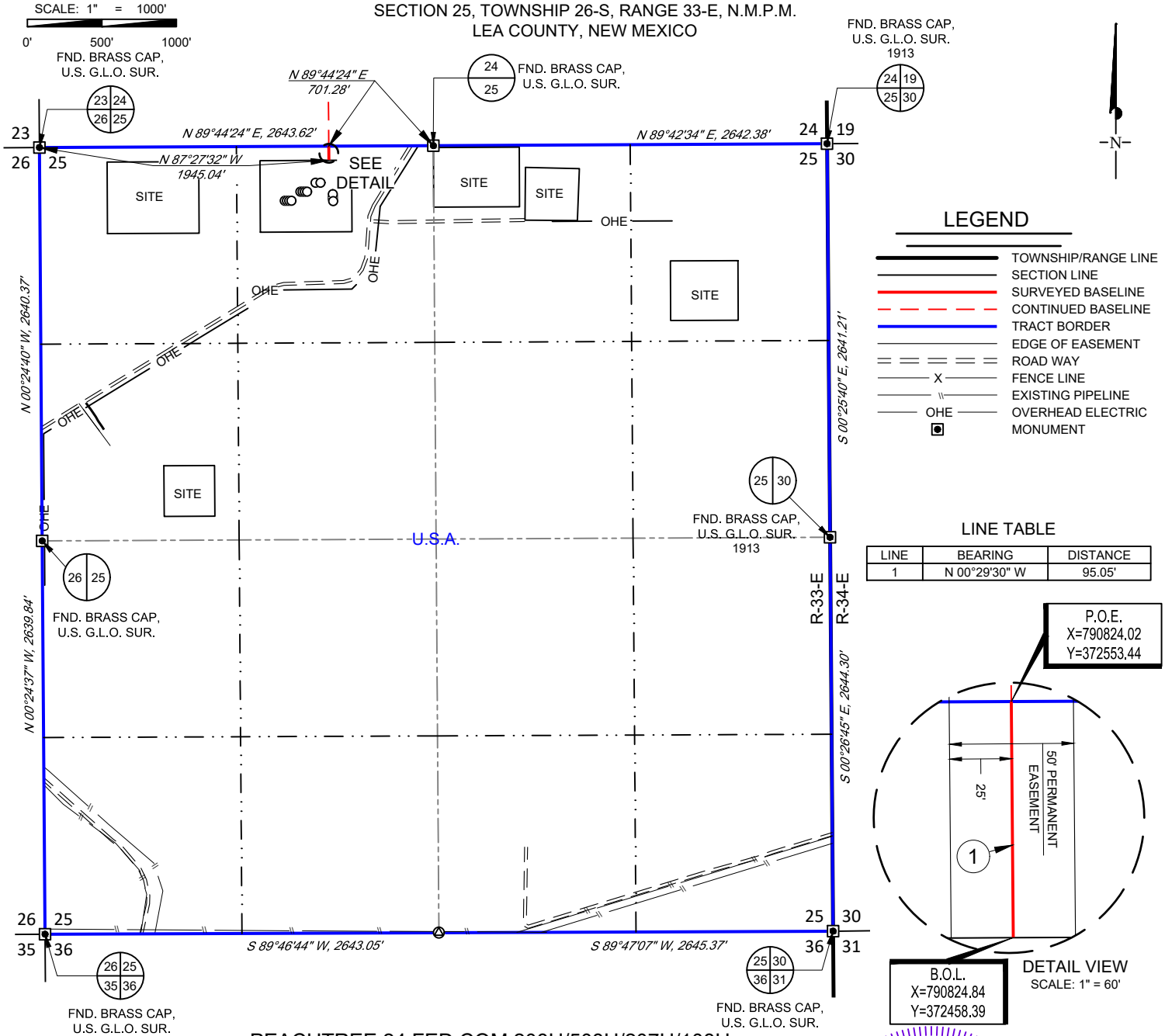
6. ADJOINER INFORMATION FOR INFORMATIONAL PURPOSES ONLY

S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\EP_PEACHTREE_24_FED_COM_208H-508H-207H-108H_FL_GL_FO_SEC_24.DWG 7/29/2025 12:45:29 PM russell.waterman

SCALE: 1" = 1000'
0' 500' 1000'

SECTION 25, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LINE TABLE

LINE	BEARING	DISTANCE
1	N 00°29'30" W	95.05'

PEACHTREE 24 FED COM 208H/508H/207H/108H FLOWLINE/GAS LIFT/FIBER OPTIC

Being a proposed flowline easement being 50 feet in width, 25 feet left, and 25 feet right of the above platted centerline total line footage containing 95.08 feet or 5.76 rods, containing 0.11 acres more or less.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/29/2025 12:46:50 PM

Ramon A. Dominguez, P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, STE. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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PEACHTREE 24 FED COM 208H/508H/207H/108H FLOWLINE/GAS LIFT/ FIBER OPTIC	REVISION: INT	DATE
DATE: 06/30/2025		
FILE: EP_PEACHTREE_24_FED_COM_208H-508H-207H-108H_FL_GL_FO_SEC_25		
DRAWN BY: TCG		
SHEET : 1 OF 1		

NOTES:
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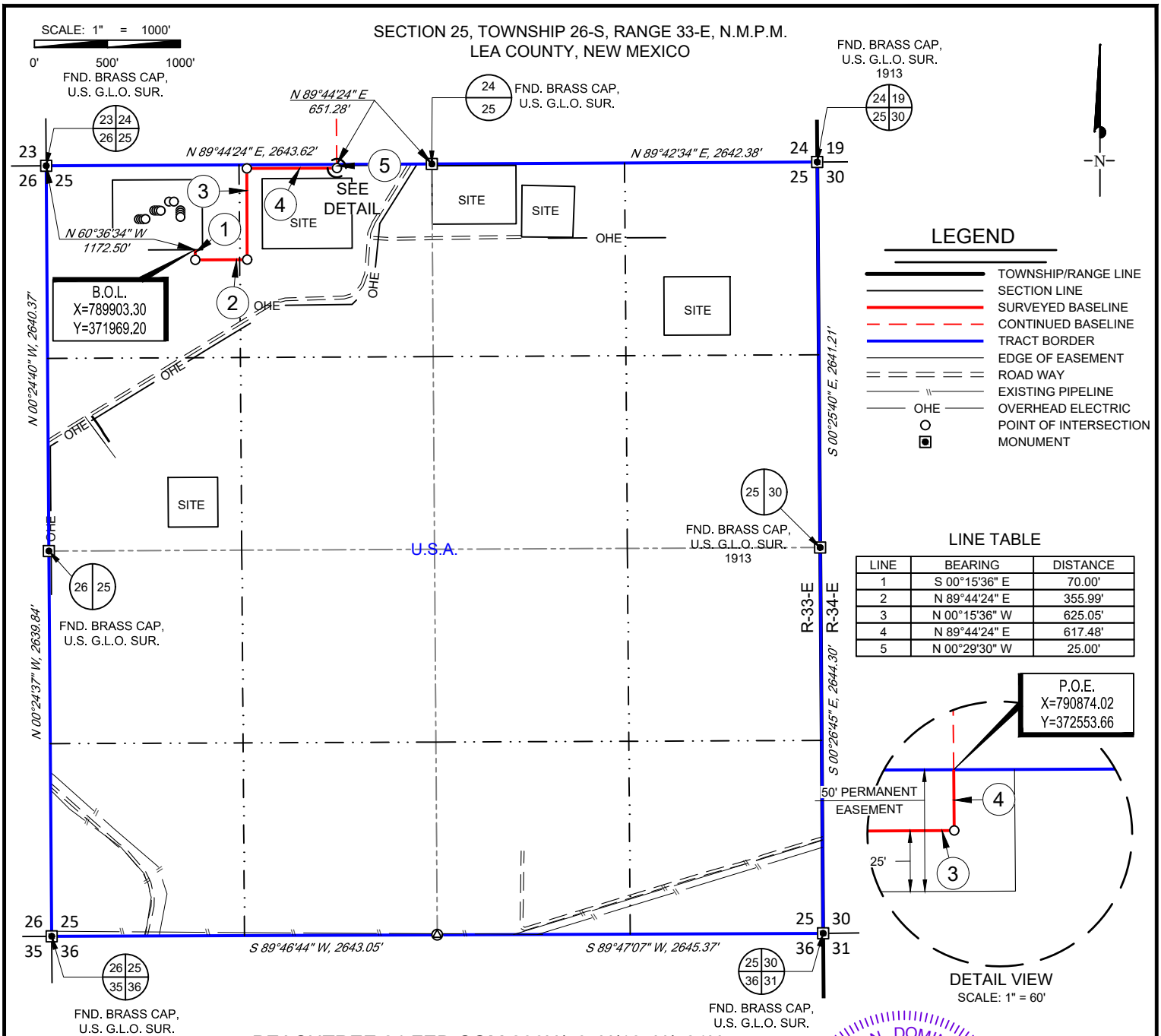
S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\EP_PEACHTREE_24_FED_COM_208H-508H-207H-108H_FL_GL_FO_SEC_25.DWG 7/29/2025 12:46:49 PM russell.waterman



LINE	BEARING	DISTANCE
1	S 00°15'36" E	70.00'
2	N 89°44'24" E	355.99'
3	N 00°15'36" W	625.05'
4	N 89°44'24" E	617.48'
5	N 00°29'30" W	25.00'

PEACHTREE 24 FED COM 206H/507H/107H/581H
4 INCH ABOVE GROUND FUEL GAS LINE

Being a proposed fuel gas easement being 50 feet in width, 25 feet left, and 25 feet right of the above platted centerline total line footage containing 1693.52 feet or 102.64 rods, containing 1.94 acres more or less.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

7/29/2025 12:38:03 PM

Ramon A. Dominguez, P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, STE. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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PEACHTREE 24 FED COM COM 206H/507H/107H/581H 4 INCH ABOVE GROUND FUEL LINE	REVISION:	
	INT	DATE
DATE: 06/30/2025		
FILE: EP_PEACHTREE_24_FED_COM_206H-507H-107H-581H_4_IN_FUEL_GAS_SEC_25		
DRAWN BY: TCG		
SHEET : 1 OF 1		

NOTES:
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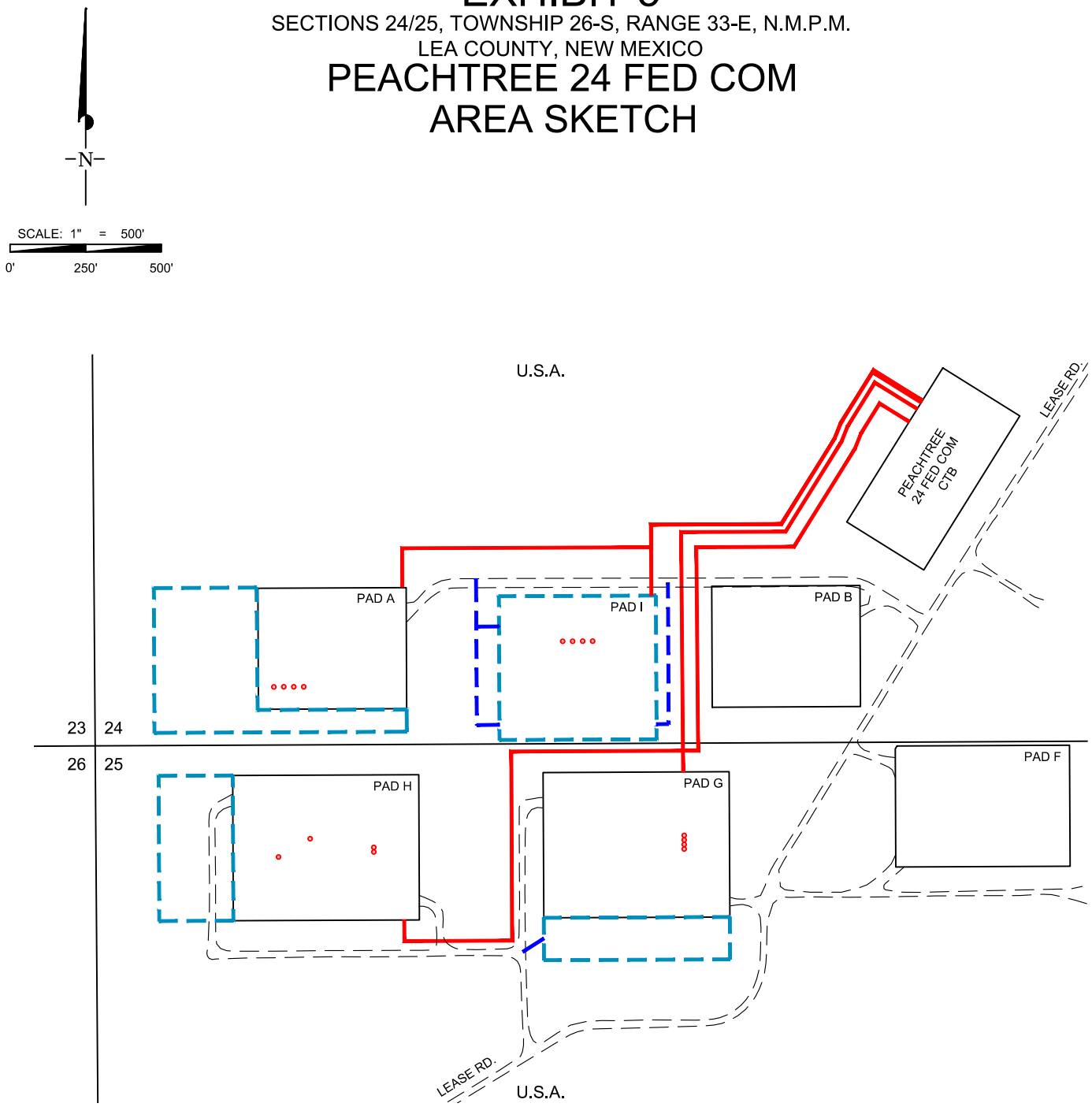
S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\EP_PEACHTREE_24_FED_COM_206H-507H-107H-581H_4_IN_FUEL_GAS_SEC_25.DWG 7/29/2025 12:38:03 PM russell.waterman

EXHIBIT 5

SECTIONS 24/25, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

PEACHTREE 24 FED COM
AREA SKETCH



eog resources, inc.

PEACHTREE 24 FED COM AREA SKETCH	REVISION:	
	CS	11/17/2019
	CS	11/23/2019
DATE: 02/06/17	CS	12/4/2019
FILE: SK_PEACHTREE_24_FED_COM_EXHIBIT_5_SKETCH_REV7	TRG	3/11/2020
DRAWN BY: EAH	WTP	8/4/2020
SHEET : 1 OF 1	TCG	7/1/2025

LEGEND

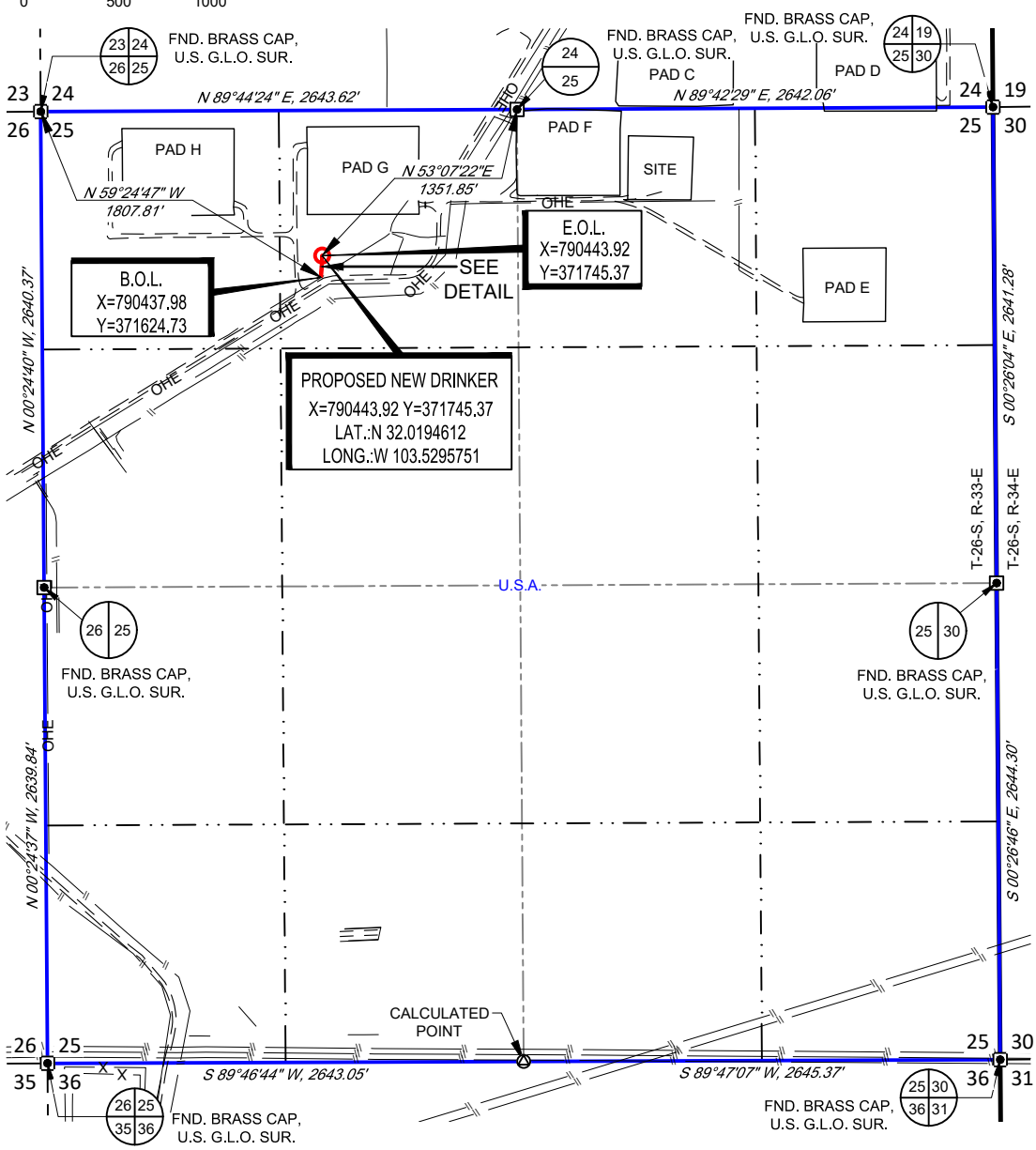
- SECTION LINE
- PROPOSED ROAD
- PROPOSED FLOWLINE
- PROPOSED PAD AND EXPANSIONS

S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\SKETCH\SK_PEACHTREE_24_FED_COM_EXHIBIT_5_SKETCH_REV7.DWG 7/1/2025 10:00:21 AM tgriffin

SCALE: 1" = 1000'

0' 500' 1000'

SECTION 25, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

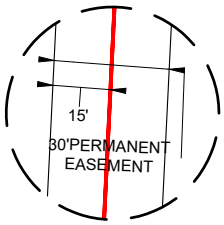


LEGEND

- TOWNSHIP/RANGE LINE
- SECTION LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE
- TRACT BORDER
- SURVEYED BASELINE
- EDGE OF EASEMENT
- ROAD WAY
- X — FENCE LINE
- EXISTING PIPELINE
- GAS — EXISTING GAS LINE
- OHE — OVERHEAD ELECTRIC
- FO — FIBER OPTIC LINE
- POINT OF INTERSECTION
- CALCULATED CORNER
- MONUMENT FOUND
- TANK

LINE TABLE

LINE	BEARING	DISTANCE
1	N 02°49'08" E	120.79'



DETAIL VIEW
SCALE: 1" = 50'

PEACHTREE 24 FED COM RANCH WATERLINE REROUTE

Being a proposed waterline easement being 30 feet in width, 15 feet left, and 15 feet right of the above platted centerline total line footage containing 120.79 feet or 7.32 rods, containing 0.08 acre more or less.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

10/14/2025 4:57:12 PM

Ramon A. Dominguez, P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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PEACHTREE 24 FED COM RANCH WATERLINE REROUTE	REVISION: INT	DATE
	1	10/14/2025
DATE: 09/30/2025	2	10/14/2025
FILE: EP_PEACHTREE_24_FED_COM_RANCH_WATERLINE_REROUTE_REV2		
DRAWN BY: CAR		
SHEET : 1 OF 1		

NOTES:
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Peachtree 24 Fed Com Caliche Map

The caliche pit is in the SWSE Section 22, Township 26 South, Range 33 East, Lea County, New Mexico.

Peachtree 24 Fed Com #206H, #507H, #107H, #581H
Peachtree 24 Fed Com #208H, #508H, #207H, #108H
Peachtree 24 Fed Com #571H, #572H, #573H, #574H
Peachtree 24 Fed Com #591H, #592H, #593H, #594H

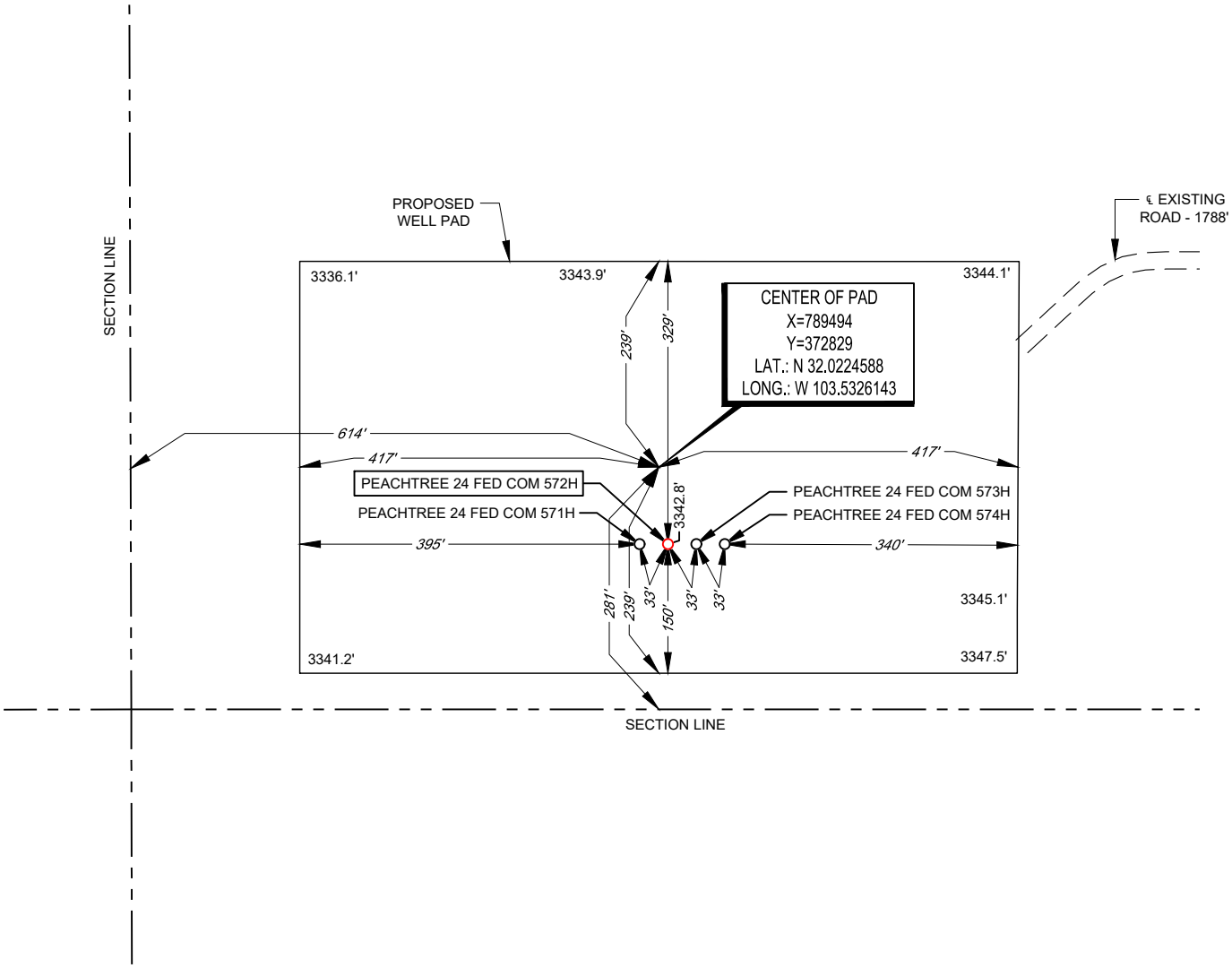
EXHIBIT 2B

eog resources, inc.

SECTION 24, TOWNSHIP 26, RANGE 33, N.M.P.M.
LEA COUNTY, NEW MEXICO

LEGEND

- SECTION LINE
- PROPOSED ROAD
- ROAD WAY



RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

7/30/2025 1:22:08 PM

Ramon A. Dominguez, P.S. No. 24508

LEASE NAME & WELL NO.: PEACHTREE 24 FED COM 572H

572H LATITUDE N 32.0222129 572H LONGITUDE W 103.5325812

CENTER OF PAD IS 281' FSL & 614' FWL

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

–N–

SCALE: 1" = 200'

0' 100' 200'

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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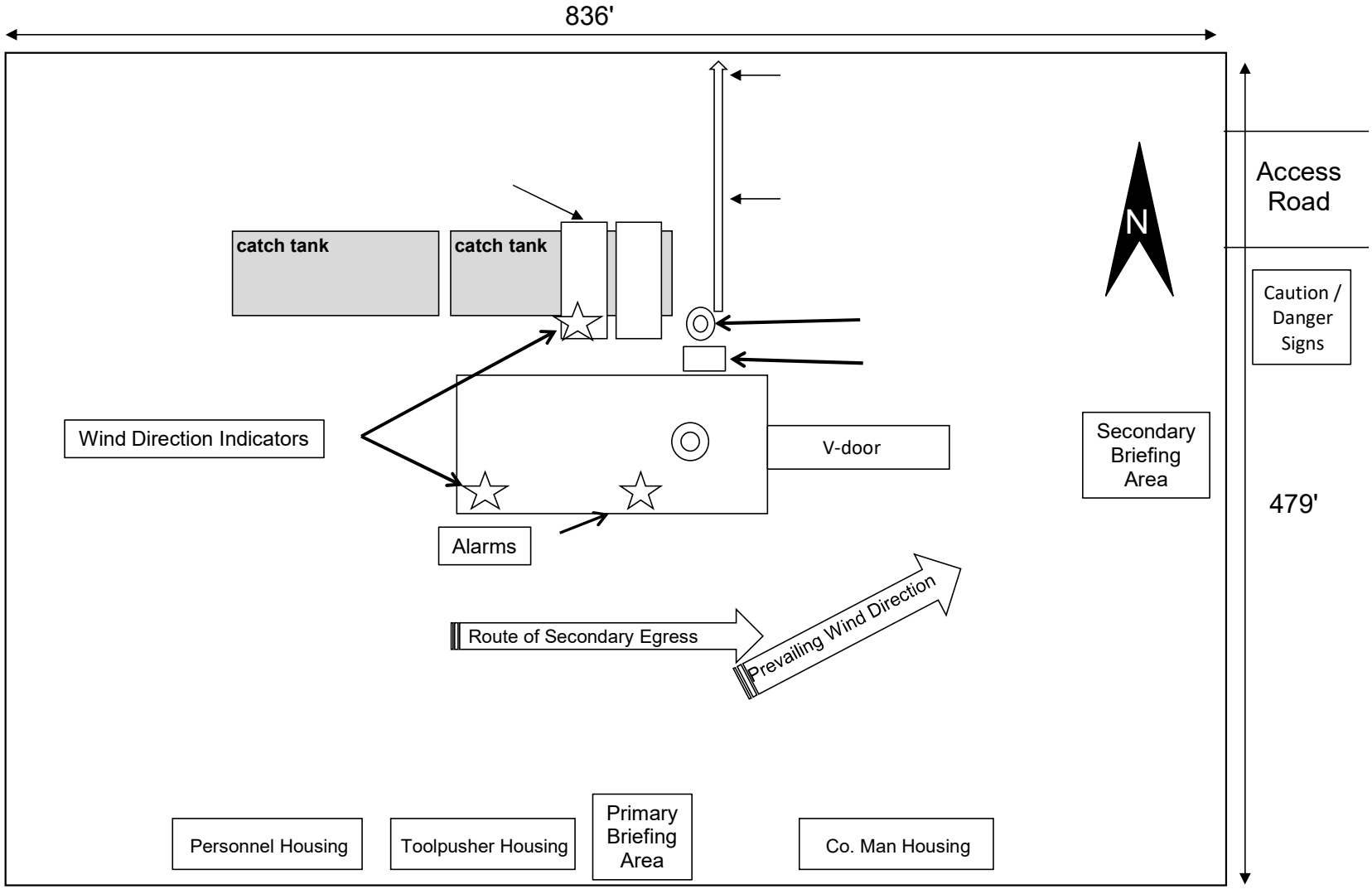
S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\LO_PEACHTREE_24_FED_COM_572H.DWG 7/30/2025 1:22:08 PM ahall3

Exhibit 4

Well Site Diagram

EOG Resources
Peachtree 24 Fed Com #572H



eog resources, inc.

EXHIBIT 2A

SECTION 24, TOWNSHIP 26, RANGE 33, N.M.P.M.
LEA COUNTY, NEW MEXICO

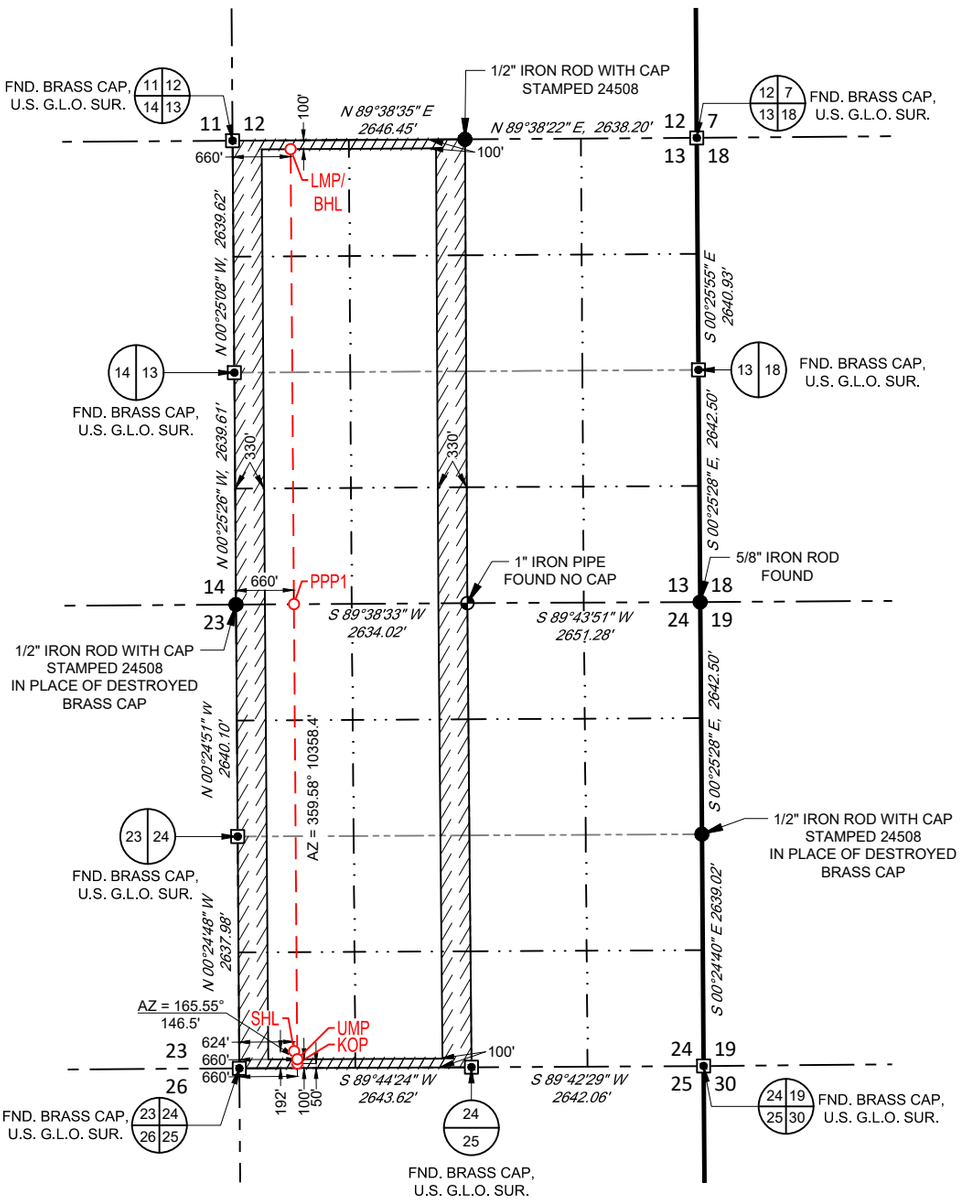
SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=789505 Y=372739
LAT.: N 32.0222129
LONG.: W 103.5325812
192' FSL 624' FWL

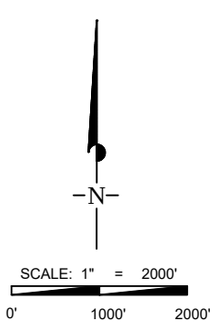
KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
X=789541 Y=372598
LAT.: N 32.0218222
LONG.: W 103.5324667
50' FSL 660' FWL

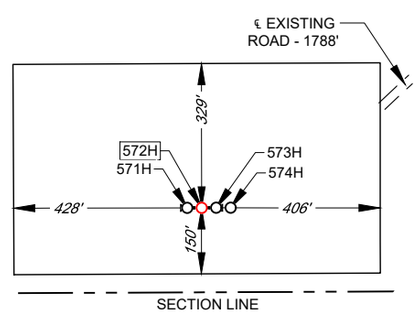
UPPER MOST PERF. (UMP)
NEW MEXICO EAST
NAD 1983
X=789541 Y=372648
LAT.: N 32.0219597
LONG.: W 103.5324667
100' FSL 660' FWL

PROPOSED PERF. POINT (PPP1)
NEW MEXICO EAST
NAD 1983
X=789503 Y=377827
LAT.: N 32.0361963
LONG.: W 103.5324646
0' FNL 660' FWL

LOWER MOST PERF. (LMP)
BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=789465 Y=383006
LAT.: N 32.0504329
LONG.: W 103.5324625
100' FNL 660' FWL







DETAIL VIEW
SCALE: 1" = 400'

LEASE NAME & WELL NO.: PEACHTREE 24 FED COM 572H

SECTION 24 TWP 26 RGE 33 SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 192' FSL & 624' FWL

DISTANCE & DIRECTION
FROM INT. OF N. 3RD ST., & NM-128, GO WEST ON NM-128 ±13.8 MILES, THENCE SOUTHWEST (LEFT) ON BATTLE AXE RD. ±12.2 MILES, THENCE SOUTH (LEFT) ON LEASE RD. ±0.7 MILES, THENCE EAST (LEFT) ON A LEASE RD. ±1.0 MILES, THENCE SOUTH (RIGHT) ON A LEASE RD. ±3.0 MILES, THENCE EAST (LEFT) ON A LEASE RD. ±0.3 MILES, THENCE CONTINUE WEST ON AN EXISTING RD. ±1788 FEET TO A POINT ±475 FEET NORTHEAST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

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Ramon A. Dominguez, P.S. No. 24508

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481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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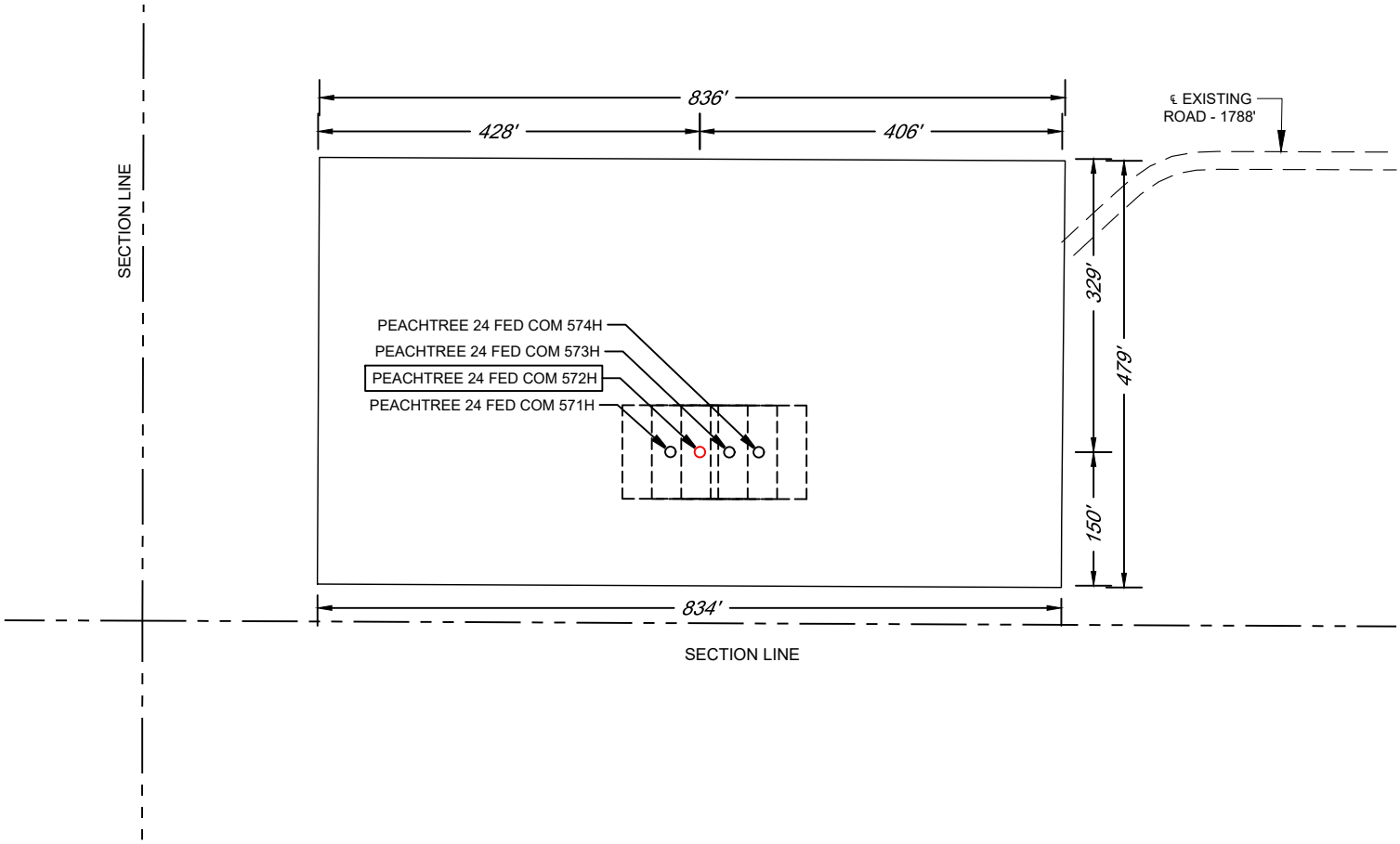
EXHIBIT 2C

RECLAMATION AND FACILITY DIAGRAM - PRODUCTION FACILITIES DIAGRAM

SECTION 24, TOWNSHIP 26, RANGE 33, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 200'

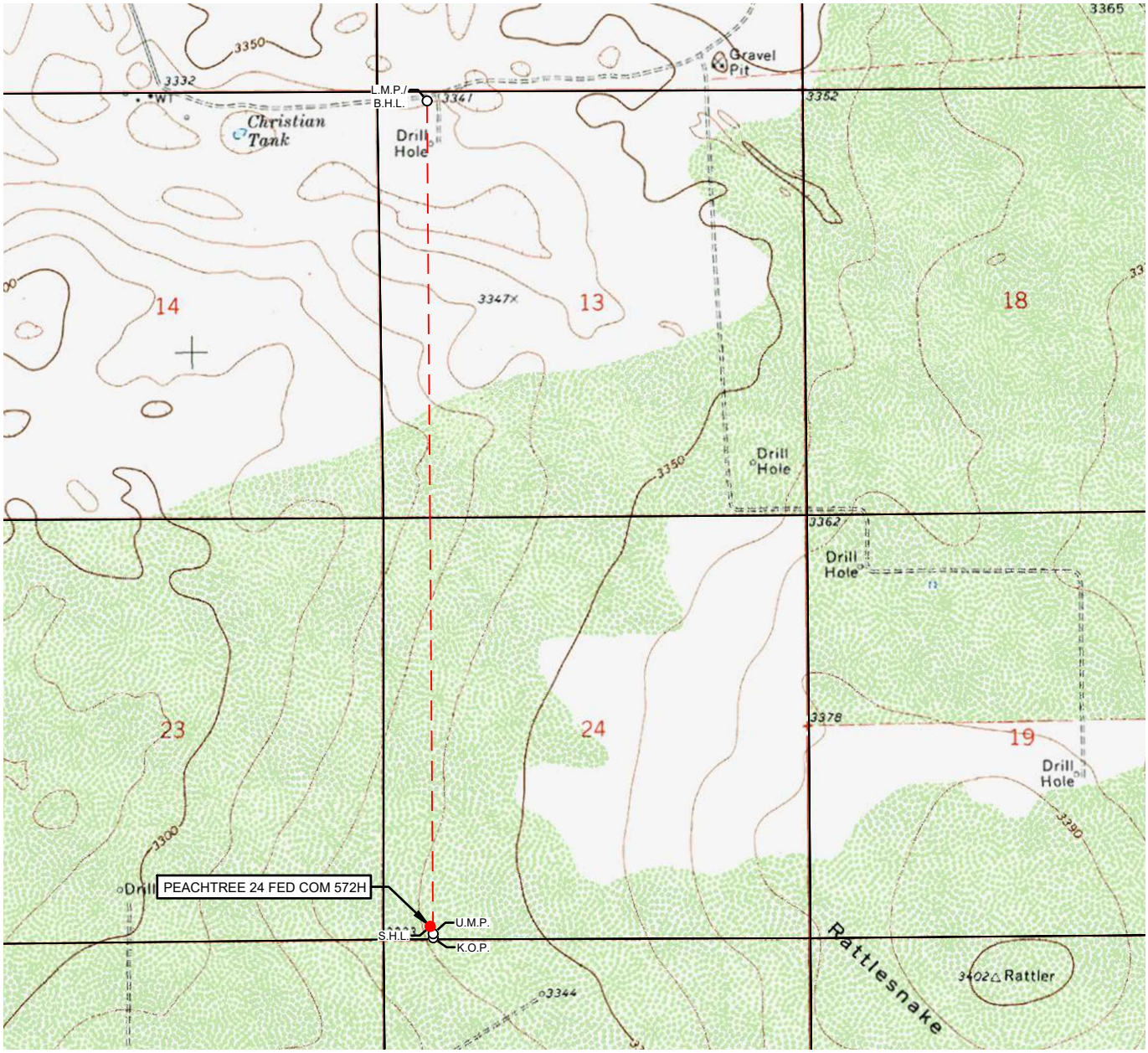


LEASE NAME & WELL NO.: PEACHTREE 24 FED COM 572H

572H LATITUDE N 32.0222129 572H LONGITUDE W 103.5325812

S:\SURVEY\EOG_MIDLAND\PEACHTREE_24_FED_COM\FINAL_PRODUCTS\LO_PEACHTREE_24_FED_COM_572H.DWG 7/30/2025 1:22:08 PM ahall3

LOCATION & ELEVATION VERIFICATION MAP



eog resources, inc.

LEASE NAME & WELL NO.: PEACHTREE 24 FED COM 572H

SECTION 24 TWP 26 RGE 33 SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3343'
DESCRIPTION 192' FSL & 624' FWL

LATITUDE N 32.0222129 LONGITUDE W 103.5325812

N

SCALE: 1" = 2000'
0' 1000' 2000'

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

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481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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EOG Resources, Inc.

Surface Use Plan of Operations Section 7 Methods for Handling Waste Attachment

Human waste managed by third-party vendors. ROW construction waste contained in on-site portable toilets maintained by third party vendor. During drilling activities waste is managed by third party vendor utilizing onsite aerobic (treatment) wastewater management. Liquids treated through the aerobic system are transferred to via water line to CTBs for reuse by EOG. All solid waste remaining after treatment process are pumped into an enclosed waste transfer truck at the time of rig down and taken to one of the following disposal facilities by the third-party vendor: Qual Run Services LLC (a Licensed Waste Management Service Facility in Reeves County, Texas) or ReUse OilField Services (a Licensed Waste Management Facility in Mentone, TX)

Trash dumpsters are utilized to contain garbage onsite. Dumpsters are maintained by a third-party vendor. All trash is hauled to Lee County, NM landfill.

EOG utilizes a Closed Loop System, cuttings leave the rig and enter low/highwall cuttings bin. Cuttings are then transferred to trucks for transportation to a State of New Mexico approved disposal facility. Primary disposal location for EOG's NM operations is the North Delaware Basin Disposal Facility in Jal, New Mexico which is a privately owned commercial facility. Some EOG locations within New Mexico may require transportation of cuttings to other licensed commercial disposal facilities based on geographic location.

Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored onsite in frac tanks and disposed of at the time of rig down. Primary disposal location for EOG's NM operations is the North Delaware Basin Disposal facility in Jal, New Mexico which is a privately owned commercial facility. Some EOG locations within New Mexico may require transportation of cuttings to other licensed commercial disposal facilities based on geographic location.

Surface Use Plan of Operations

Introduction

The following surface use plan of operations will be followed and carried out once the APD is approved. No other disturbance will be created other than what was submitted in this surface use plan. If any other surface disturbance is needed after the APD is approved, a BLM approved sundry notice or right of way application will be acquired prior to any new surface disturbance.

Before any surface disturbance is created, stakes or flagging will be installed to mark boundaries of permitted areas of disturbance, including soils storage areas. As necessary, slope, grade, and other construction control stakes will be placed to ensure construction in accordance with the surface use plan. All boundary markers will be maintained in place until final construction cleanup is completed. If disturbance boundary markers are disturbed or knocked down, they will be replaced before construction proceeds.

If terms and conditions are attached to the approved APD and amend any of the proposed actions in this surface use plan, we will adhere to the terms and conditions.

1. Existing Roads

a. The existing access road route to the proposed project is depicted on PEACHTREE 24 FED COM 572H VICINITY. Improvements to the driving surface will be done where necessary. No new surface disturbance will be done, unless otherwise noted in the New or Reconstructed Access Roads section of this surface use plan..

b. The existing access road route to the proposed project does not cross lease or unit boundaries, so a BLM right-of-way grant will not be acquired for this proposed road route.

c. The operator will improve or maintain existing roads in a condition the same as or better than before operations begin. The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattleguards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use.

d. We will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or other dust suppression chemicals on roadways.

2. New or Reconstructed Access Roads

a. No new road will be constructed for this project.

3. Location of Existing Wells

a. PEACHTREE 24 FED COM 572H RADIUS of the APD depicts all known wells within a one mile radius of the proposed well.

b. There is no other information regarding wells within a one mile radius.

4. Location of Existing and/or Proposed Production Facilities

a. All permanent, lasting more than 6 months, above ground structures including but not limited to pumpjacks, storage tanks, barrels, pipeline risers, meter housing, etc. that are not subject to safety requirements will be painted a non-reflective paint color, Shale Green, from the BLM Standard Environmental Colors chart, unless another color is required in the APD Conditions of Approval.

b. If any type of production facilities are located on the well pad, they will be strategically placed to allow for

maximum interim reclamation, recontouring, and revegetation of the well location.

c. Production from the proposed well will be transported to the production facility named PEACHTREE 24 FED COM CTB. The location of the facility is as follows: SECTIONS 24/25, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M..

d. EXISTING INFRASTRUCTURE

If any plans change regarding the production facility or other infrastructure (pipeline, electric line, etc.), we will submit a sundry notice or right of way (if applicable) prior to installation or construction.

Additional Pipeline(s)

We propose to install 1 additional pipeline(s):

1. Buried pipeline:

    a.

    b.

    c.

Electric Line(s)

a. No electric line will be applied for with this APD.

5. Location and Types of Water

a. The source and location of the water supply are as follows: The source and location of the water supply are as follows: This location will be drilled using a combination of water mud systems as outlined in the drilling program (i) Water will be obtained from commercial water stations in the area and hauled to the location by trucks using existing and proposed roads as depicted on the road map attached (ii) Water may be supplied from frac ponds and transported to the location by temporary above ground surface lines a shown on the map
EOG plans to utilize up to eight (8) twelve inch (12”) layflat lines to transport fresh water Freshwater contains less than 10_000 mg_I Total Dissolved Solids (TDS)_ exhibits no petroleum sheen when standing_ and is not previously used in mechanical processes that expose it to heavy metals or other potential toxins
EOG plans to utilize up to eight (8) twelve inch (12”) to transport treated produced water_ defined as reconditioning produced water to a reusable form and may include mechanical and chemical processes
Freshwater Source:
EOG HMK Water Pit in Lot 4 of Section 36_ Township 26 South_ Range 33 East_ Lea County_ New Mexico

Treated Produced Water Source:
EOG Rattlesnake Reuse Pit in the SWSW of Section 22_ Township 26 South_ Range 33 East_ Lea County_ New Mexico
Temporary surface lines would originate from a single or multiple water source locations in the surrounding area of the proposed action and be temporarily laid above ground with minimal disturbance
Temporary surface line(s) shall be laid no more than 10 feet from the edge of the existing disturbance (ie_ edge of bar_borrow ditch_ road surface or two track road_ or other man made addition to the landscape) A push off arm or another mechanism will be used All vehicle equipment will remain within the existing disturbance
Map or maps showing the locations of the temporary surface lines will be provided with the APD and included in the Environmental Assessment An electronic map file (shape file or KMZ file) shall be submitted with the Environmental Assessment.

b. PEACHTREE 24 FED COM WATER AND CALCIHE MAP depicts the proposed route for a 12 inch ABOVE GROUND LAYFLAT temporary (<90 days) water pipeline supplying water for drilling operations.

6. Construction Material

a. Caliche will be supplied from pits shown on the attached caliche source map.
Caliche utilized for the drilling pad will be obtained either from an existing approved mineral pit, or by benching into a hill, which will allow the pad to be level with existing caliche from the cut or extracted by "Flipping" the well location. A mineral material permit will be obtained from BLM prior to excavating any caliche on Federal Lands. Amount will vary for each pad. The procedure for "Flipping" a well location is as follows:
*
-An adequate amount of topsoil/root zone (usually top 6 inches of soil) will be stripped from the proposed well location and stockpiled along the side of the well location as depicted on the well site diagram/survey plat.
-An area within the proposed well site dimensions will be used to excavate caliche.
Subsoil will be removed and stockpiled within the surveyed well pad dimensions.
-Once caliche/surfacing mineral is found, the mineral material will be excavated and stockpiled within the approved drilling pad dimensions.
-Then, subsoil will be pushed back in the excavated hole, and caliche will be spread accordingly across the entire well pad and road (if available).
-Neither caliche nor subsoil will be stockpiled outside the well pad dimensions. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat.
*
If no caliche is found onsite, caliche will be hauled in from a BLM-approved caliche pit or other established mineral pit. A BLM mineral material permit will be acquired before obtaining mineral material from BLM pits or federal land.

7. Methods for Handling Waste

a. Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility.

b. Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around the well site will be collected for disposal.

c. Human waste and grey water will be properly contained and disposed of properly at a state approved disposal facility.

d. After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at a state approved disposal facility.

e. The well will be drilled utilizing a closed loop system. Drill cutting will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility.

8. Ancillary Facilities

a. No ancillary facilities will be needed for this proposed project.

9. Well Site Layout

a. The following information is presented in the well site survey plat or diagram:

a. reasonable scale (near 1":50')

i. well pad dimensions

ii. well pad orientation

iii. drilling rig components

iv. proposed access road

v. elevations of all points

vi. topsoil stockpile

vii. reserve pit location/dimensions if applicable

viii. other disturbances needed (flare pit, stinger, frac farm pad, etc.)

ix. existing structures within the 600' x 600' archaeoligical surveyed area (pipelines, electric lines, well pads, etc

x. The proposed drilling pad was staked and surveyed by a professional surveyor. The attached survey plat of the well site depicts the drilling pad layout as staked.

b. A title of a well site diagram is PEACHTREE 24 FED COM 572H RIG LAYOUT. This diagram depicts the RIG LAYOUT.

c. Topsoil Salvaging

i. Grass, forbs, and small woody vegetation, such as mesquite will be excavated as the topsoil is removed. Large woody vegetation will be stripped and stored separately and respread evenly on the site following topsoil respreading. Topsoil depth is defined as the top layer of soil that contains 80% of the roots. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location and along the perimeter of the access road to control run-on and run-off, to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

10. Plans for Surface Reclamation

Reclamation Objectives

i. The objective of interim reclamation is to restore vegetative cover and a portion of the landform sufficient to maintain healthy, biologically active topsoil; control erosion; and minimize habitat and forage loss, visual impact, and weed infestation, during the life of the well or facilities.

ii. The long-term objective of final reclamation is to return the land to a condition similar to what existed prior to disturbance. This includes restoration of the landform and natural vegetative community, hydrologic systems, visual resources, and wildlife habitats. To ensure that the long-term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity.

iii. The BLM will be notified at least 3 days prior to commencement of any reclamation procedures.

iv. If circumstances allow, interim reclamation and/or final reclamation actions will be completed no later than 6 months from when the final well on the location has been completed or plugged. We will gain written permission from the BLM if more time is needed.

v. Interim reclamation will be performed on the well site after the well is drilled and completed. PEACHTREE 24 FED COM 572H RECLAMATION depicts the location and dimensions of the planned interim reclamation for the well site.

Interim Reclamation Procedures (If performed)

1. Within 30 days of well completion, the well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not required for production.

2. In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.

3. The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

4. Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

5. Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.

6. The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion is controlled.

Final Reclamation (well pad, buried pipelines, etc.)

1. Prior to final reclamation procedures, the well pad, road, and surrounding area will be cleared of material, trash, and equipment.

2. All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.

3. All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

4. After all the disturbed areas have been properly prepared, the areas will be seeded with the proper BLM seed mixture, free of noxious weeds. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

5. Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation of the surrounding area.

6. All unused equipment and structures including pipelines, electric line poles, tanks, etc. that serviced the well will be removed.

7. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion is controlled.

11. Surface Ownership

a. The surface ownership of the proposed project is FEDERAL.

12. Other Information

a. This is a placeholder well so it is being CX'd.

13. Maps and Diagrams

PEACHTREE 24 FED COM 572H VICINITY - Existing Road
PEACHTREE 24 FED COM 572H RADIUS - Wells Within One Mile
- Pipeline
PEACHTREE 24 FED COM WATER AND CALCIHE MAP - Drilling Water Pipeline
PEACHTREE 24 FED COM 572H RIG LAYOUT - Well Site Diagram PEACHTREE 24 FED COM 572H RECLAMATION - Interim Reclamation

AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

PWD Data Report
11/18/2025

APD ID: 10400107023
Submission Date: 09/12/2025
Operator Name: EOG RESOURCES INCORPORATED
Well Name: PEACHTREE 24 FED COM
Well Number: 572H
Well Type: OIL WELL
Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): **PWD surface owner:**

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

State

Unlined Produced Water Pit Estimated

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: **Injection well name:**

Assigned injection well API number? **Injection well API number:**

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description :

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM **Well Number:** 572H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Bond Info Data

11/18/2025

APD ID: 10400107023

Submission Date: 09/12/2025

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PEACHTREE 24 FED COM

Well Number: 572H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Bond

Federal/Indian APD: FED

BLM Bond number: NMB106709157

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ___EOG Resources, Inc._____ **OGRID:** _____7377_____ **Date:** 11/18/2025

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
PEACHTREE 24 FED COM 572H		M-24-26S-33E	192' FSL & 624' FWL	+/- 1000	+/- 3500	+/- 3000

IV. Central Delivery Point Name: ___Peachtree 24 Fed Com CTB_____ [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
PEACHTREE 24 FED COM 572H		12/15/25	12/30/25	2/01/26	3/01/26	4/01/26

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.
If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Star L Harrell
Printed Name: Star L Harrell
Title: Regulatory Advisor
E-mail Address: Star_Harrell@eogresources.com
Date: 11/18/2025
Phone: (432) 848-9161

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan
Items VI-VIII

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Adequate separation relates to retention time for Liquid – Liquid separation and velocity for Gas-Liquid separation.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering is selected to be serviced without flow interruptions or the need to release gas from the well.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

Drilling Operations

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared, unless there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All plunger lift systems will be optimized to limit the amount of waste.
- All tanks will have automatic gauging equipment installed.
- Leaking thief hatches found during AVOs will be cleaned and properly re-sealed.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Weekly AVOs will be performed on all wells and facilities that produce more than 60 Mcfd.

Measurement & Estimation

- All volume that is flared and vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- No meter bypasses with be installed.

- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- During downhole well maintenance, EOG will use best management practices to vent as minimally as possible.
- Prior to the commencement of any maintenance, the tank or vessel will be isolated from the rest of the facilities.
- All valves upstream of the equipment will be closed and isolated.
- After equipment has been isolated, the equipment will be blown down to as low a pressure as possible into the collection system.
- If the equipment being maintained cannot be relieved into the collection system, it shall be released to a tank where the vapor can either be captured or combusted if possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

ACKNOWLEDGMENTS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 527788
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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CONDITIONS

Action 527788

CONDITIONS

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	Action Number: 527788
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
sharrell1	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/19/2025
sharrell1	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/19/2025
matthew.gomez	Any alterations to the approved casing design must be requested and approved as a C-103A.	11/25/2025
matthew.gomez	Administrative order for non-standard spacing unit required if reported defining well is not valid or is not able to proxy in the neighboring acreage.	11/25/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	11/25/2025
matthew.gomez	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	11/25/2025
matthew.gomez	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	11/25/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	11/25/2025