



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

## Application for Permit to Drill

### APD Package Report

Date Printed:

APD ID:	Well Status:
APD Received Date:	Well Name:
Operator:	Well Number:

### 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: 2 file(s)
  - Blowout Prevention BOP Diagram Attachment: 5 file(s)
  - Casing Design Assumptions and Worksheet(s): 1 file(s)
  - Hydrogen sulfide drilling operations plan: 1 file(s)
  - Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
  - Other Facets: 10 file(s)
  - Other Variances: 3 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: 5 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: 2 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**

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No.  6. If Indian, Allottee or Tribe Name  7. If Unit or CA Agreement, Name and No.  8. Lease Name and Well No.
2. Name of Operator		9. API Well No. <b>30-025-55831</b>
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory <b>WC-025 G-09 S253335K;LWR BONE SPRIN</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish      13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
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.<br>2. A Drilling Plan.<br>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).<br>5. Operator certification.<br>6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)		
Name (Printed/Typed)		Date
Title		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.



(Continued on page 2)

\*(Instructions on page 2)

## 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 well, 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 directionally 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 well 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 will 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 connects this information to a new 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

## Additional Operator Remarks

### Location of Well

0. SHL: TR K / 2392 FSL / 1671 FWL / TWSP: 26S / RANGE: 33E / SECTION: 2 / LAT: 32.0718063 / LONG: -103.5462611 ( TVD: 0 feet, MD: 0 feet )

PPP: TR K / 2539 FSL / 2178 FWL / TWSP: 26S / RANGE: 33E / SECTION: 2 / LAT: 32.0719027 / LONG: -103.5444823 ( TVD: 9918 feet, MD: 9950 feet )

BHL: TR N / 100 FSL / 2178 FWL / TWSP: 26S / RANGE: 33E / SECTION: 11 / LAT: 32.0509933 / LONG: -103.5446223 ( TVD: 10183 feet, MD: 17771 feet )

### BLM Point of Contact

Name: MARIAH HUGHES

Title: Land Law Examiner

Phone: (575) 234-5972

Email: MHUGHES@BLM.GOV

EOG Resources Incorporated  
Calm Breeze 2 Fed Com MW  
NMNM 0359292

#### CONDITIONS OF APPROVAL FOR TEMPORARY FRESHWATER PIPELINES

Subject to the terms and conditions which are shown below, is hereby approved:

- Surface pipelines 6.5 inch to 16 inch OD may be in place for no more than 180 days not including installation. In accordance with your request, this 180 day period will begin after the Bureau of Land Management is notified. The BLM will be noticed prior to construction of the surface pipelines.
- Surface pipeline will be in operation for no more than 180 days; a maximum of seven (7) days authorized for installation of the lay flat poly line prior to operation.
- Surface pipelines larger than 6.5 inch to-16-inch OD may be in place for no more than 180 days from date of authorization; 5/1/2018, unless a SF-299 is submitted within 30 days of this decision expiring requesting a long term buried fresh water pipeline, and processing of the SF-299 is not yet complete at the end of 30 days, in which case the line(s) may be left in place until a decision is made on the SF-299.
- All lines will be removed when no longer in use.
- Width of authorized use is 15-feet.
- No blading and/or earthwork will be allowed in order to place the pipeline except burying the line under crossings.
- The pipeline will be buried under all intersecting routes, including BLM-designated trails and access roads into caliche pits, rancher watering stations, etc. All such buried crossings will be removed when the pipeline is removed, unless otherwise approved by the Authorized Officer. Pipelines larger than 6.5-inch OD may utilize other crossing methodologies (but any fill placed over pipeline must be brought in from off-site).
- Pipeline crossings of fences should be avoided where possible. If a crossing is necessary, contact fence owner [usually the grazing permittee] prior to installation, and install by threading pipeline under the lowest wire of the fence; pipeline should never cross on top of any fence wires.
- The pipeline shall stay within 10 feet maximum of existing disturbance (e.g. lease road, pipeline right-of-way etc.); placement should be within 5 feet whenever possible.
- Placement of pumps or other high-maintenance equipment shall be installed along maintained lease roads.
- Gas or diesel pumps, generators, or compressors shall be placed on visquen matting [or 20 mil plastic] and in a containment structure capable of containing all potentially released fuels. Containments must be protected against wildlife deaths in accordance with oilfield best management practices.
- Due to potential damage to natural resources, no work is allowed during inclement weather.
- Pipeline will be marked with your company's name and contact number, at beginning and ending points, at all public-road crossings, and at intervals not exceeding every 0.6 mile, unless otherwise approved by the Authorized Officer.

- Should unforeseen damage occur to resources, BLM will require reclamation of the impacted land.
- No water may be released into the environment without BLM consent.
- Placement of surface pipelines along or under public roadways may require permits from the road authority.
- This authorization is limited to lands under BLM jurisdiction. If your proposed pipeline crosses lands under private ownership or under other agency jurisdiction, you are responsible for obtaining all necessary permits and approvals from those parties.

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG RESOURCES INCORPORATED
WELL NAME & NO.:	CALM BREEZE 2 FED COM 301H
LOCATION:	Section 2, T.26 S., R.33 E.
COUNTY:	Lea County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Wellhead Variance	<input type="radio"/> Diverter		
Other	<input type="checkbox"/> 4 String	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Open Annulus
Cementing	<input type="checkbox"/> Contingency Cement Squeeze	<input type="checkbox"/> EchoMeter	<input type="checkbox"/> Primary Cement Squeeze
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input checked="" type="checkbox"/> Offline Cementing	<input checked="" type="checkbox"/> 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

#### Shallow Design A:

- The 13-3/8 inch surface casing shall be set at approximately 1070 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. *MEDIUM CAVE KARST AREA COULD SEE SEVERE LOSSES. PLEASE HAVE CONTINGENCIES IN PLACE.*

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **9-5/8** inch intermediate casing shall be set at approximately **4930** feet **TVD**.
    - a. **Mud weight could brine up to 10.2ppg. Reviewed and OK**
    - b. **Keep casing half full during run for collapse SF**

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.
3. The **5-1/2** inch production casing shall be set at approximately **17,771** feet. 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.

### **Shallow Design B:**

1. The **10-3/4** inch surface casing shall be set at approximately **1070** 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. *MEDIUM CAVE KARST AREA COULD SEE SEVERE LOSSES. PLEASE HAVE CONTINGENCIES IN PLACE.*
  - 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 **4930** feet **TVD**.
- a. **Mud weight could brine up to 10.2ppg. Reviewed and OK**
  - b. **Keep casing half full during run for collapse SF**

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. The **5-1/2** inch production casing shall be set at approximately **17,771** feet. 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.

### 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 **13-3/8** 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)****(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)****BOPE Break Testing Variance**

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

**Offline Cementing**

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

**Casing Clearance:**

- Salt annular clearance variance in place for the intermediate interval
- Overlap clearance OK in the production interval

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

**GENERAL REQUIREMENTS**

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

**Contact Eddy County Petroleum Engineering Inspection Staff:**

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; [BLM\\_NM\\_CFO\\_DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822

**Contact Lea County Petroleum Engineering Inspection Staff:**

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 2<sup>nd</sup> 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 2<sup>nd</sup> 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 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- 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.

**KPI 5/2/2025**



# Operator Certification Data Report

12/31/2025

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

## 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:**

**Signed on:** 09/24/2024

**Title:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**

## Field

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**



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

# Application Data

12/31/2025

APD ID: 10400091395

Submission Date: 03/29/2023

Highlighted data reflects the most recent changes  
[Show Final Text](#)

Operator Name: EOG RESOURCES INCORPORATED

Well Name: CALM BREEZE 2 FED COM

Well Number: 301H

Well Type: OIL WELL

Well Work Type: Drill

## Section 1 - General

APD ID: 10400091395

Tie to previous NOS?

Submission Date: 03/29/2023

BLM Office: Carlsbad

User: CRAIG RICHARDSON

Title: Regulatory Specialist

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM0359292

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: CALM BREEZE 2 FED COM

Well Number: 301H

Field/Pool or Exploratory? Field and Pool

Field Name: WC-025 G-09  
S263406D

Pool Name: LOWER BONE  
SPRING

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

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:** CALM BREEZE 2 FED COM **Number:** 201H, 202H, 301H, 302H, 303H

**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:** 16 FT

**Distance to lease line:** 100 FT

**Reservoir well spacing assigned acres Measurement:** 480 Acres

**Well plat:** LO\_CALM\_BREEZE\_2\_FC\_301H\_C102\_REV1\_S\_20230329124856.pdf

**Well work start Date:** 09/30/2023

**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	239 2	FSL	167 1	FW L	26S	33E	2	Tract K	32.07180 63	- 103.5462 611	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	332 1			Y
KOP Leg #1	258 9	FSL	217 8	FW L	26S	33E	2	Tract K	32.07234 68	- 103.5446 246	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 638 5	973 0	970 6	Y
PPP Leg #1-1	253 9	FSL	217 8	FW L	26S	33E	2	Tract K	32.07190 27	- 103.5444 823	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 659 7	995 0	991 8	Y

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

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	FSL	2178	FWL	26S	33E	11	Tract N	32.0509933	-103.5446223	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0359292	-6862	17771	10183	Y
BHL Leg #1	100	FSL	2178	FWL	26S	33E	11	Tract N	32.0509933	-103.5446223	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0359292	-6862	17771	10183	Y

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-025-</b>		<sup>2</sup> Pool Code <b>98038</b>		<sup>3</sup> Pool Name <b>WC-025 G-09 S263406D, LOWER BS</b>	
<sup>4</sup> Property Code <b>317458</b>		<sup>5</sup> Property Name <b>CALM BREEZE 2 FED COM</b>			<sup>6</sup> Well Number <b>301H</b>
<sup>7</sup> OGRID No. <b>7377</b>		<sup>8</sup> Operator Name <b>EOG RESOURCES, INC.</b>			<sup>9</sup> Elevation <b>3321'</b>

<sup>10</sup>Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>K</b>	<b>2</b>	<b>26-S</b>	<b>33-E</b>	<b>-</b>	<b>2392'</b>	<b>SOUTH</b>	<b>1671'</b>	<b>WEST</b>	<b>LEA</b>

<sup>11</sup>Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>N</b>	<b>11</b>	<b>26-S</b>	<b>33-E</b>	<b>-</b>	<b>100'</b>	<b>SOUTH</b>	<b>2178'</b>	<b>WEST</b>	<b>LEA</b>

<sup>12</sup> Dedicated Acres <b>480.00</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
--	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	<p>NEW MEXICO EAST NAD 1983</p> <p><u>SURFACE LOCATION (SHL)</u> 2392' FSL - SEC. 2 1671' FWL - SEC. 2 X=785134 Y=390750 LAT.: N 32.0718063 LONG.: W 103.5462611</p> <p><u>KICK OFF POINT (KOP) UPPER MOST PERF. (UMP)</u> 2539' FSL - SEC. 2 2178' FWL - SEC. 2 X=785684 Y=390789 LAT.: N 32.0719027 LONG.: W 103.5444823</p> <p><u>FED PERF. POINT (FPP)</u> 0' FSL - SEC. 2 2178' FWL - SEC. 2 X=785658 Y=388361 LAT.: N 32.0652308 LONG.: W 103.5446239</p> <p><u>LOWER MOST PERF. (LMP) BOTTOM HOLE LOCATION (BHL)</u> 100' FSL - SEC. 11 2178' FWL - SEC. 1 X=785696 Y=383182 LAT.: N 32.0509933 LONG.: W 103.5446223</p>	<p><sup>17</sup>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Shea Keithley</i> 3/27/23 Signature Date</p> <p>Shea Keithley Printed Name</p> <p>shea_keithley@eogresources.com E-mail Address</p>				
	<p><sup>18</sup>SURVEYOR CERTIFICATION</p> <p>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 to the best of my belief.</p> <p>05/07/2021 Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p>	<p>Certificate Number</p> <p>NEW MEXICO EAST NAD 1927</p> <table border="0"> <tr> <td><u>SURFACE LOCATION (SHL)</u> X=743947 Y=390692 LAT.: N 32.0718014 LONG.: W 103.5457931</td> <td><u>KICK OFF POINT (KOP) UPPER MOST PERF. (UMP)</u> X=744452 Y=390843 LAT.: N 32.0720853 LONG.: W 103.5441567</td> </tr> <tr> <td><u>FED PERF. POINT (FPP)</u> X=744471 Y=388304 LAT.: N 32.0651058 LONG.: W 103.5441564</td> <td><u>LOWER MOST PERF. (LMP) BOTTOM HOLE LOCATION (BHL)</u> X=744509 Y=383125 LAT.: N 32.0508683 LONG.: W 103.5441557</td> </tr> </table>	<u>SURFACE LOCATION (SHL)</u> X=743947 Y=390692 LAT.: N 32.0718014 LONG.: W 103.5457931	<u>KICK OFF POINT (KOP) UPPER MOST PERF. (UMP)</u> X=744452 Y=390843 LAT.: N 32.0720853 LONG.: W 103.5441567	<u>FED PERF. POINT (FPP)</u> X=744471 Y=388304 LAT.: N 32.0651058 LONG.: W 103.5441564	<u>LOWER MOST PERF. (LMP) BOTTOM HOLE LOCATION (BHL)</u> X=744509 Y=383125 LAT.: N 32.0508683 LONG.: W 103.5441557
	<u>SURFACE LOCATION (SHL)</u> X=743947 Y=390692 LAT.: N 32.0718014 LONG.: W 103.5457931	<u>KICK OFF POINT (KOP) UPPER MOST PERF. (UMP)</u> X=744452 Y=390843 LAT.: N 32.0720853 LONG.: W 103.5441567				
	<u>FED PERF. POINT (FPP)</u> X=744471 Y=388304 LAT.: N 32.0651058 LONG.: W 103.5441564	<u>LOWER MOST PERF. (LMP) BOTTOM HOLE LOCATION (BHL)</u> X=744509 Y=383125 LAT.: N 32.0508683 LONG.: W 103.5441557				



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

# Drilling Plan Data Report

12/31/2025

APD ID: 10400091395

Submission Date: 03/29/2023

Highlighted data reflects the most recent changes

Operator Name: EOG RESOURCES INCORPORATED

Well Name: CALM BREEZE 2 FED COM

Well Number: 301H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15595764	PERMIAN	3321	0	0	ALLUVIUM	NONE	N
15595765	RUSTLER	2360	961	961	ANHYDRITE	NONE	N
15595766	TOP SALT	2006	1315	1315	SALT	NONE	N
15595767	BASE OF SALT	-1513	4834	4834	SALT	NONE	N
15595768	LAMAR	-1742	5063	5063	LIMESTONE	NONE	N
15595770	BELL CANYON	-1796	5117	5117	SANDSTONE	NATURAL GAS, OIL	N
15595771	CHERRY CANYON	-2789	6110	6110	SANDSTONE	NATURAL GAS, OIL	N
15595772	BRUSHY CANYON	-4207	7528	75828	SANDSTONE	NATURAL GAS, OIL	N
15595773	BONE SPRING LIME	-5895	9216	9216	LIMESTONE	NATURAL GAS, OIL	N
15595774	AVALON SAND	-5927	9248	9248	SANDSTONE	NATURAL GAS, OIL	N
15595775	BONE SPRING 1ST	-6822	10143	10143	SANDSTONE	NATURAL GAS, OIL	Y
15595776	BONE SPRING 2ND	-7489	10810	10810	SANDSTONE	NATURAL GAS, OIL	Y
15595778	BONE SPRING 3RD	-7846	11167	11167	SANDSTONE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** CALM BREEZE 2 FED COM**Well Number:** 301H**Pressure Rating (PSI):** 10M**Rating Depth:** 10183

**Equipment:** 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. 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. A multi-bowl wellhead system will be utilized. After running the 13-3/8 surface casing, a 13-3/8 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 Onshore Order No. 2. 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 vendors 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 vendors representative. All BOP equipment will be tested utilizing a conventional test plug. Not a cup or Jpacker 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 Onshore Order No. 2 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.

**Requesting Variance?** YES

**Variance request:** Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 11" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 11" hole interval to maximize cement bond and zonal isolation. Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation. EOG requests permission to allow deviation from the 0.422" annulus clearance requirement for the intermediate (salt) section from Onshore Order #2 under the following conditions: - The variance is not applicable within the Potash Boundaries or Capitan Reef areas. - Operator takes responsibility to get casing to set point in the event that the clearance causes stuck pipe issues. Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line). Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack. EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) 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 per Onshore Order No. 2. • Function test BOP elements per Onshore Order No. 2. • Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation. • After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. • TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. • See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure" EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) 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 30 days per Onshore Order No. 2. • Function test BOP elements per Onshore Order No. 2. • Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation. • After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. • TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. • See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"

**Testing Procedure:** 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. 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.

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**Choke Diagram Attachment:**

10\_M\_Choke\_Manifold\_20230329131647.pdf

Gates\_Co\_Flex\_Hose\_Test\_Chart\_and\_Certifications\_20250310134030.pdf

**BOP Diagram Attachment:**

10\_M\_BOP\_Diagram\_13.625\_in\_20230329131730.pdf

EOG\_BLM\_Variance\_1c\_\_\_10M\_Annular\_Variance\_\_\_3\_String\_Large\_surface\_hole\_20230329131730.pdf

EOG\_BLM\_Variance\_3a\_\_\_Offline\_Cement\_Intermediate\_Operational\_Procedure\_20230329131730.pdf

Wellhead\_3\_string\_10.750x8.625x5.500\_SDT\_3141\_20230329131730.pdf

EOG\_BLM\_Variance\_4a\_\_\_Salt\_Section\_Annular\_Clearance\_11.8.2022\_20230329131730.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	16	13.375	NEW	API	N	0	1070	0	1070	3321	2251	1070	J-55	54.5	ST&C	1.125	1.25	BUOY	1.6	BUOY	1.6
2	INTERMEDIATE	11	9.625	NEW	API	N	0	4025	0	4000	3411	-679	4025	J-55	40	LT&C	1.125	1.25	BUOY	1.6	BUOY	1.6
3	INTERMEDIATE	11	9.625	NEW	API	N	4025	4955	4000	4930	-681	-1609	930	HCK-55	40	LT&C	1.125	1.25	BUOY	1.6	BUOY	1.6
4	PRODUCTION	6.75	5.5	NEW	API	N	0	17771	0	10183	3319	-6862	17771	HCP-110	17	LT&C	1.125	1.25	BUOY	1.6	BUOY	1.6

**Casing Attachments**

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**Casing Attachments**

---

**Casing ID:** 1                    **String**      SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Calm\_Breeze\_2\_Fed\_Com\_301H\_Permit\_Info\_\_Dual\_\_20230329130334.pdf

---

**Casing ID:** 2                    **String**      INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

---

**Casing ID:** 3                    **String**      INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

---

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**Casing Attachments**

**Casing ID:** 4      **String**      PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

**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	870	320	1.73	13.5	553.6	25	Class C	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello- Flake (TOC @ Surface)
SURFACE	Tail		870	1070	100	1.34	14.8	134	25	Class C	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 870')
INTERMEDIATE	Lead		0	3944	460	2.22	14.2	1021.2	25	Class C	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
INTERMEDIATE	Tail		3944	4930	160	1.32	14.8	211.2	25	Class C	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 3944')
PRODUCTION	Lead		4430	9730	350	3.21	10.5	1123.5	25	CLASS H	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4430')
PRODUCTION	Tail		9730	17771	570	1.52	13.2	866.4	25	CLASS H	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
											@ 9730'

### 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

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	1070	WATER-BASED MUD	8.6	8.8							
1070	4940	SALT SATURATED	8.6	8.8							
4730	10183	OIL-BASED MUD	8.8	9.5							

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

## 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.

GRCCCL will be run in cased hole during completions phase of operations.

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

DIRECTIONAL SURVEY,

**Coring operation description for the well:**

None

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 4766

**Anticipated Surface Pressure:** 2525

**Anticipated Bottom Hole Temperature(F):** 172

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

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations**

Calm\_Breeze\_2\_Fed\_Com\_301H\_H2S\_Plan\_Summary\_20230329130636.pdf

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Calm\_Breeze\_2\_Fed\_Com\_301H\_Wall\_Plot\_20230329130658.pdf

Calm\_Breeze\_2\_Fed\_Com\_301H\_Planning\_Report\_20230329130658.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.

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**Other proposed operations facets attachment:**

- 10\_M\_BOP\_Diagram\_13.625\_in\_20230329131951.pdf
- 10.750in\_40.5ppf\_J55\_STC\_20230329131951.pdf
- 8.625in\_32ppf\_J55\_BTC\_SC\_20230329131951.pdf
- Calm\_Breeze\_2\_Fed\_Com\_301H\_Permit\_Info\_Dual\_20230329131951.pdf
- 8.625in\_32ppf\_P110EC\_BTC\_SC\_20230329131951.pdf
- Calm\_Breeze\_2\_Fed\_Com\_Well\_Package\_TVD\_20230329131951.pdf
- Wellhead\_3\_string\_10.750x8.625x5.500\_SDT\_3141\_20230329131951.pdf
- EOG\_Cameron\_3\_String\_13in\_10M\_MNDS\_20230329131951.PDF
- Calm\_Breeze\_2\_Fed\_Com\_301H\_Rig\_Layout\_20230329132110.pdf
- Gates\_Co\_Flex\_Hose\_Test\_Chart\_and\_Certifications\_20250310134048.pdf

**Other Variance request(s)?:** Y

**Other Variance attachment:**

- EOG\_BLM\_Variance\_1c\_\_\_10M\_Annular\_Variance\_\_\_3\_String\_Large\_surface\_hole\_20230329132011.pdf
- EOG\_BLM\_Variance\_3a\_\_\_Offline\_Cement\_Intermediate\_Operational\_Procedure\_20230329132011.pdf
- EOG\_BLM\_Variance\_4a\_\_\_Salt\_Section\_Annular\_Clearance\_11.8.2022\_20230329132011.pdf





**American  
Petroleum  
Institute**



2018-151

# Certificate of Authority to use the Official API Monogram

**License Number: 7K-0519**

**ORIGINAL**

The American Petroleum Institute hereby grants to

**GATES ENGINEERING AND SERVICES**  
**7603 Prairie Oak Drive, Suite 190**  
**Houston, TX**  
**United States**

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-7K** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **7K-0519**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: High Pressure Mud and Cement Hoses at FSL 0, at FSL 1, at FSL 2

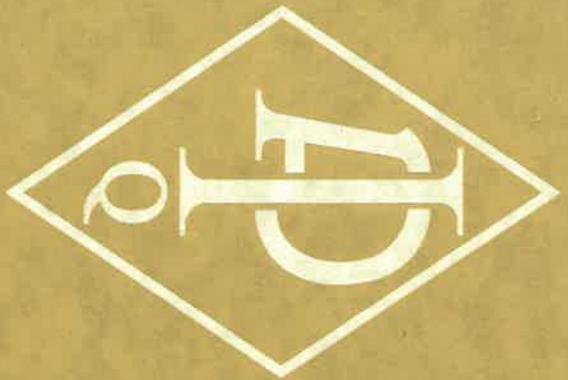
QMS Exclusions: No Exclusions Identified as Applicable

**Effective Date: OCTOBER 24, 2024**

**Expiration Date: DECEMBER 18, 2027**

Senior Vice President of Global Industry Services

To verify the authenticity of this license, go to [www.api.org/compositelist](http://www.api.org/compositelist).



**American Petroleum Institute**



2018-151

**Certificate of Authority to use the Official API Monogram**  
**License Number: 16C-0485**  
**ORIGINAL**

The American Petroleum Institute hereby grants to

**GATES ENGINEERING AND SERVICES**  
**7603 Prairie Oak Drive, Suite 190**  
**Houston, TX**  
**United States**

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-16C** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **16C-0485**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Flexible Choke and Kill Lines atFSL 0, FSL 1, FSL 2, FSL 3

QMS Exclusions: No Exclusions Identified as Applicable

**Effective Date: OCTOBER 24, 2024**

**Expiration Date: DECEMBER 18, 2027**

To verify the authenticity of this license, go to [www.api.org/compositealist](http://www.api.org/compositealist).



Senior Vice President of Global Industry Services



REGISTRATION NO. Q1-3650

# Certificate of Registration

The American Petroleum Institute certifies that the quality management system<sup>®</sup> of

**GATES ENGINEERING AND SERVICES**  
7603 Prairie Oak Drive, Suite 190  
Houston, TX  
United States

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

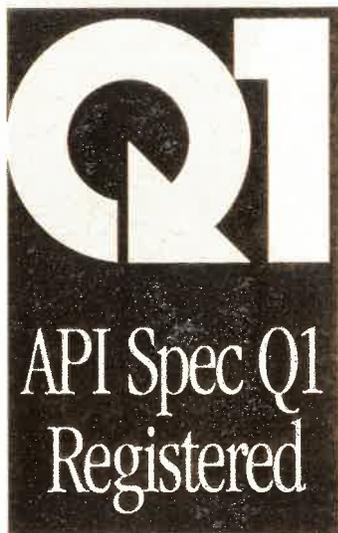
## API Spec Q1, 9th Edition

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**



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

Senior Vice President of Global Industry Services

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](http://www.api.org/compositelist).**



GATES ENGINEERING & SERVICES NORTH AMERICA  
7603 Pralrle Oak Dr. Suite 190  
Houston, TX. 77086

PHONE: +1 (281) 602-4100  
FAX: +1 (281) 602-4147  
EMAIL: gesna.quality@gates.com  
WEB: gates.com/ollandgas

**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, 3<sup>rd</sup> 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		<b>CERTIFICATE OF CONFORMITY</b>	
Doc. Ref.	Form-056		
Revision	4		

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

*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 ASSEMBLY WORKS ORDERS NUMBERS:  139051 139052 139053 139054 139321	139062	5
		139063	
		139064	
		139065	
		139244	
	SAFETY/LIFTER CLAMP 195MM 1.7T PART NO: HCC108	MYB59483	10
	SAFETY CHAIN 10MM C/S PCP 6FT PART NO: CHC001	ACU59481	10


J. Winkler
06 DEC 2022  
 Accepted by..... for and on behalf of Gates Engineering & Services UK Ltd

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

<input type="checkbox"/> BURST	<input checked="" type="checkbox"/> HYDROSTATIC	<input type="checkbox"/> CYCLIC	Certificate No:  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
 J. W. W. W. 06 DEC 2022	

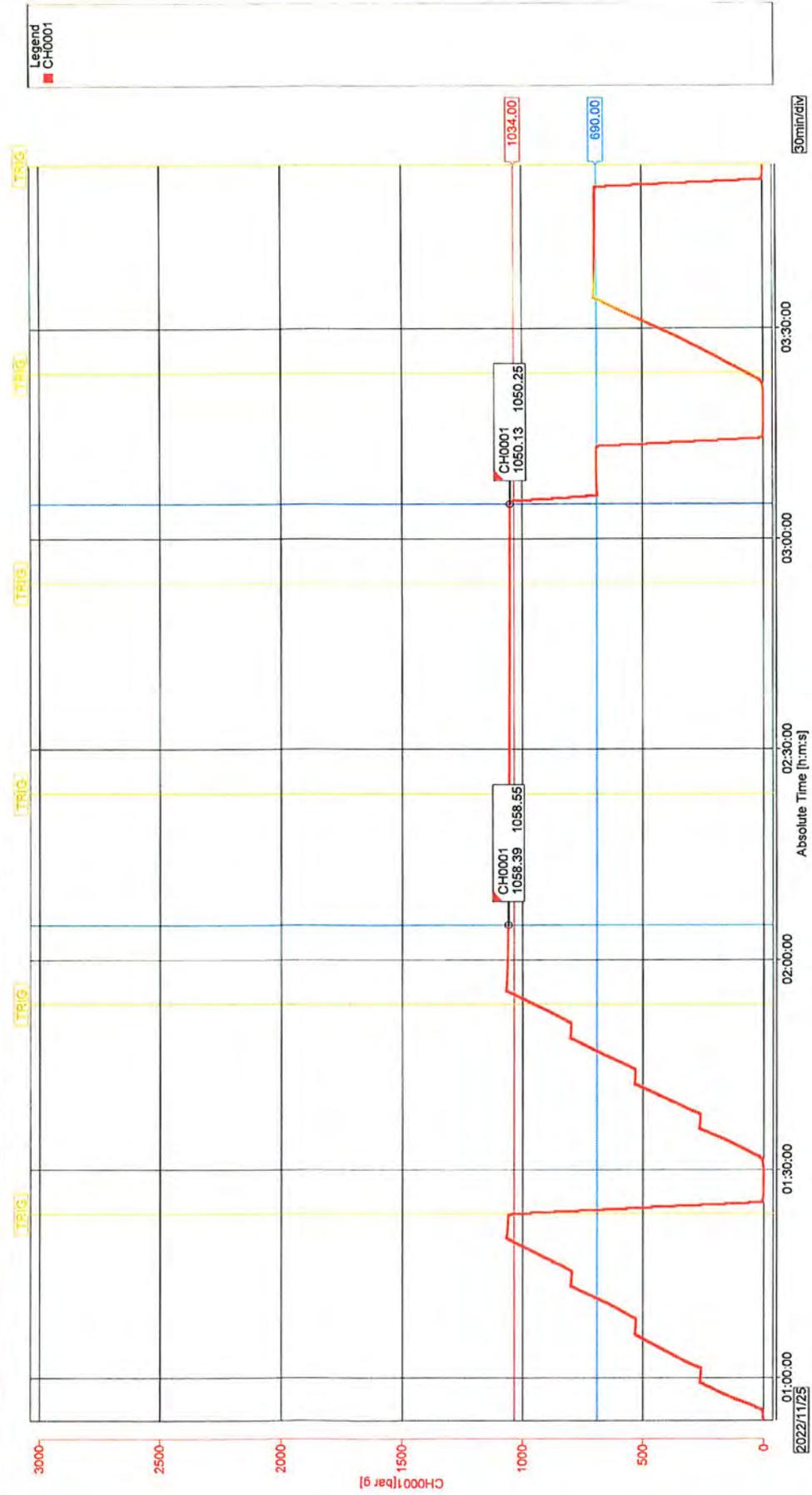
1/1

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)  
J.W. Wilson  
06 DEC 2022



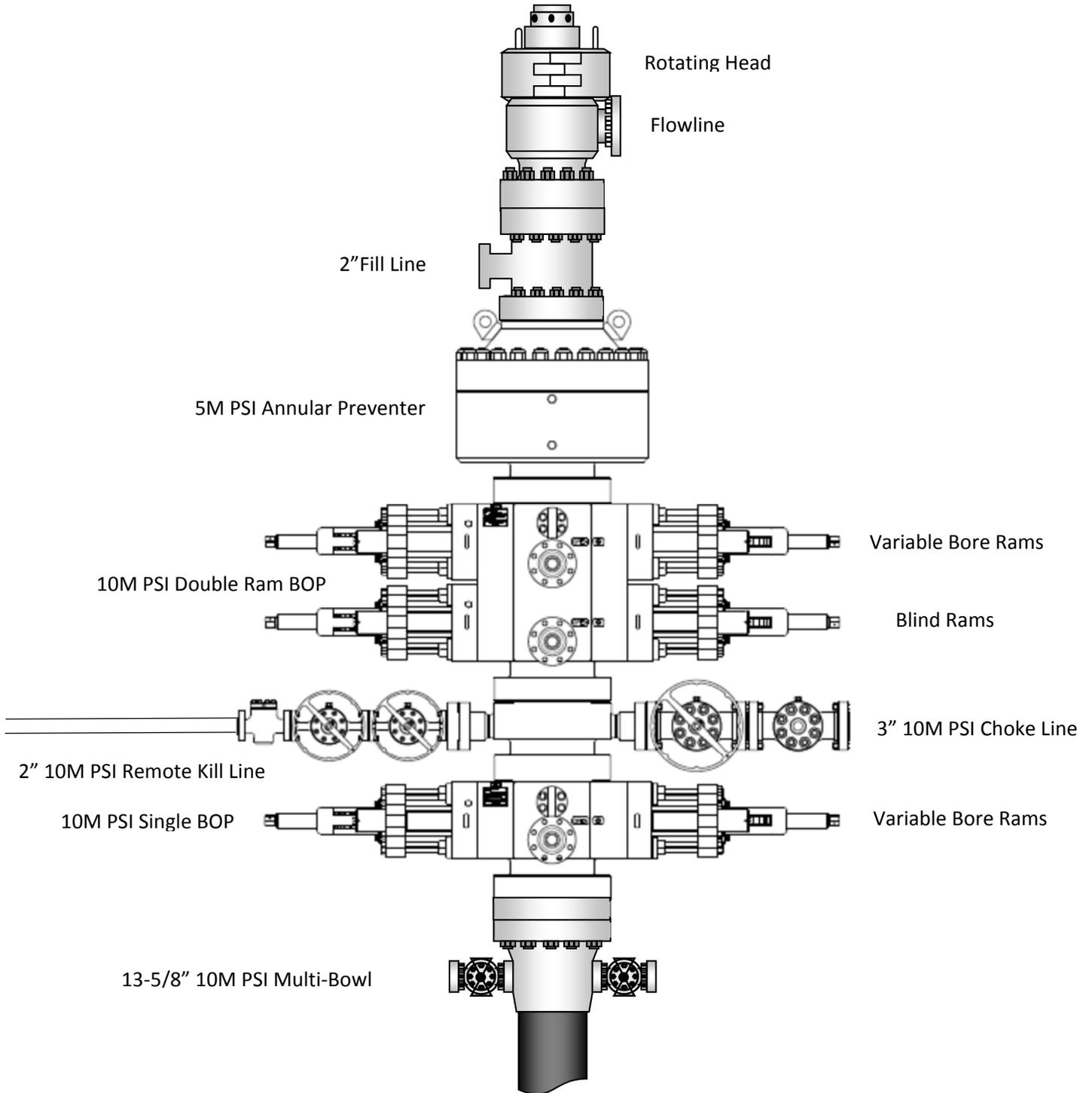
Section	427	787	2022/11/25 02:05:00.000		2022/11/25 03:05:00.000	
Channel	MIN	MAX	P-P	Mean	RMS	
CH0001[bar g]	1050.12	1058.55	8.43	1053.28	1053.28	1053.28



# Exhibit 1

## EOG Resources

### 13-5/8" 10M PSI BOP Stack



## 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

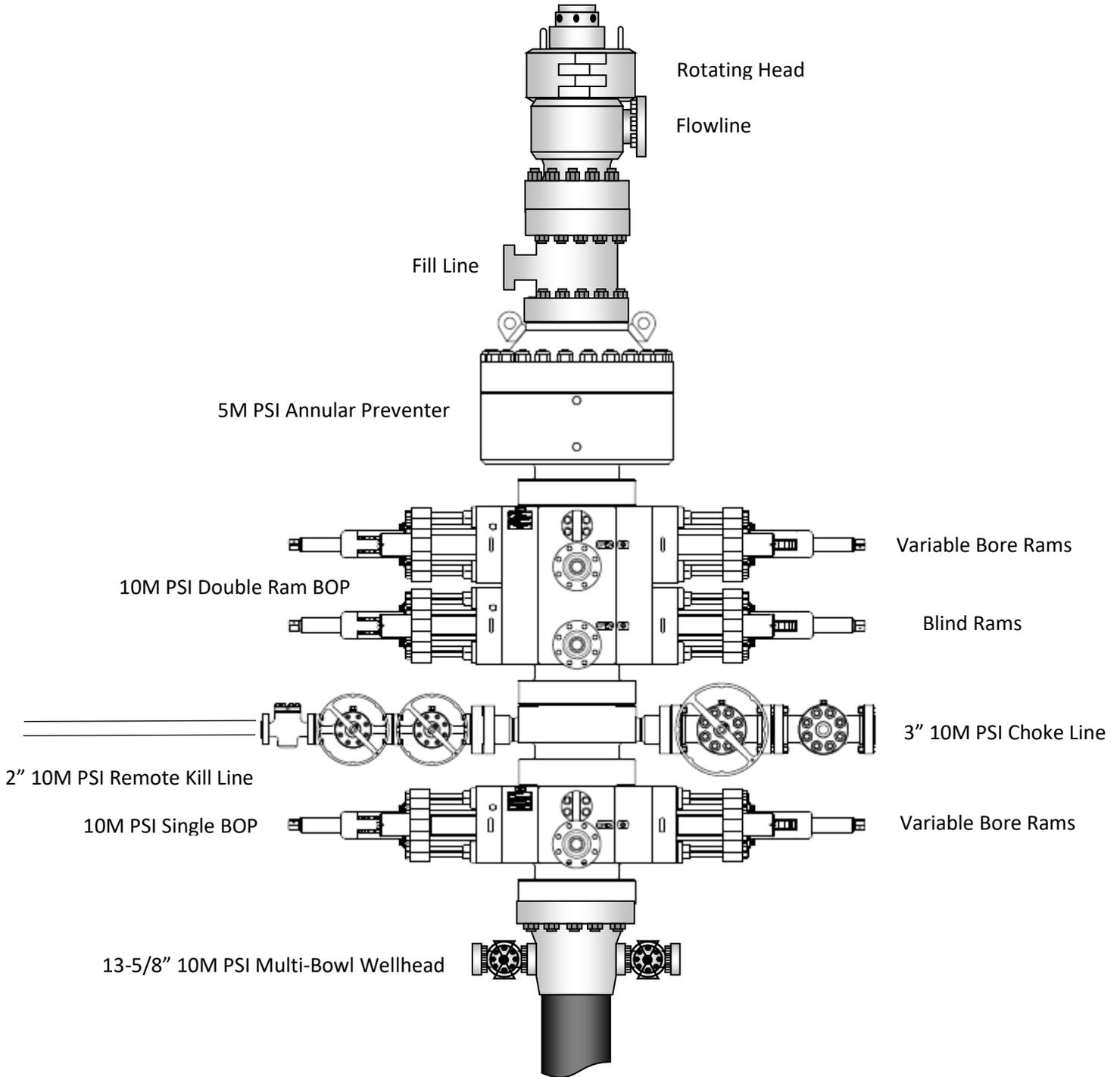
The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

<b>12-1/4" Intermediate Hole Section 10M psi requirement</b>					
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	-	-
1 <sup>st</sup> Intermediate casing	9.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M	-	-

<b>8-3/4" Production Hole Section 10M psi requirement</b>					
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	-	-
2 <sup>nd</sup> 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



## Offline Intermediate Cementing Procedure

2/24/2022

**Cement Program**

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

**Summarized Operational Procedure for Intermediate Casing**

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment back pressure valves.
  - a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
2. Land production casing on mandrel hanger through BOP.
  - a. If casing is unable to be landed with a mandrel hanger, then the **casing will be cemented online.**
3. Break circulation and confirm no restrictions.
  - a. Ensure no blockage of float equipment and appropriate annular returns.
  - b. Perform flow check to confirm well is static.
4. Set pack-off
  - a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
  - b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
5. After confirmation of both annular barriers and the two casing barriers, install TA plug and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.
  - a. Minimum 4 hrs notice.
6. With the well secured and BLM notified, nipple down BOP and secure on hydraulic carrier or cradle.
  - a. **Note, if any of the barriers fail to test, the BOP stack will not be nipped 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 nipped back up for any further remediation.



## Offline Intermediate Cementing Procedure

2/24/2022

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



Offline Intermediate Cementing Procedure

2/24/2022

## 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 nipped 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.

Page | 3



## Offline Intermediate Cementing Procedure

2/24/2022

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



Figure 1: Cameron TA Plug and Offline Adapter Schematic

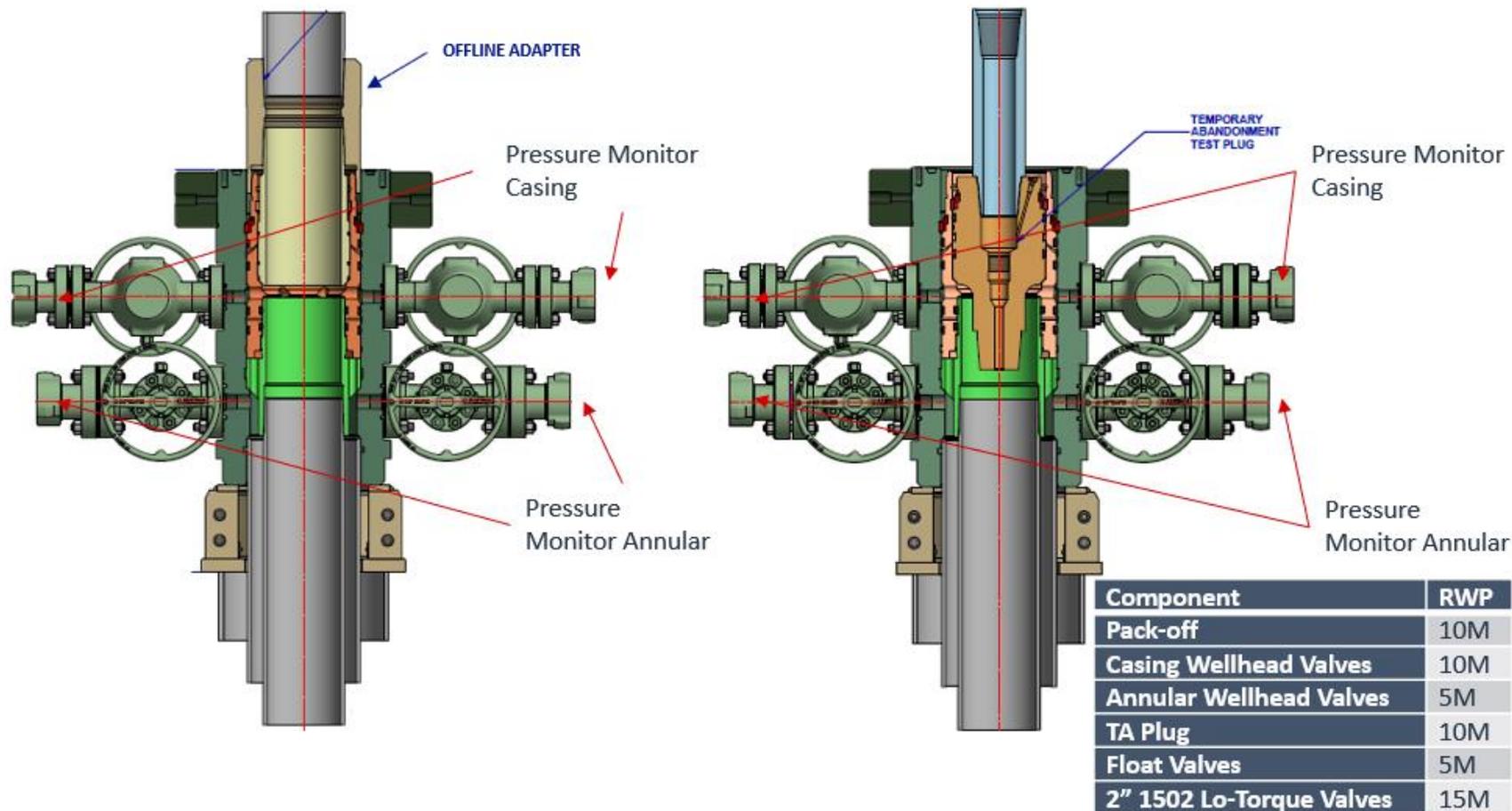
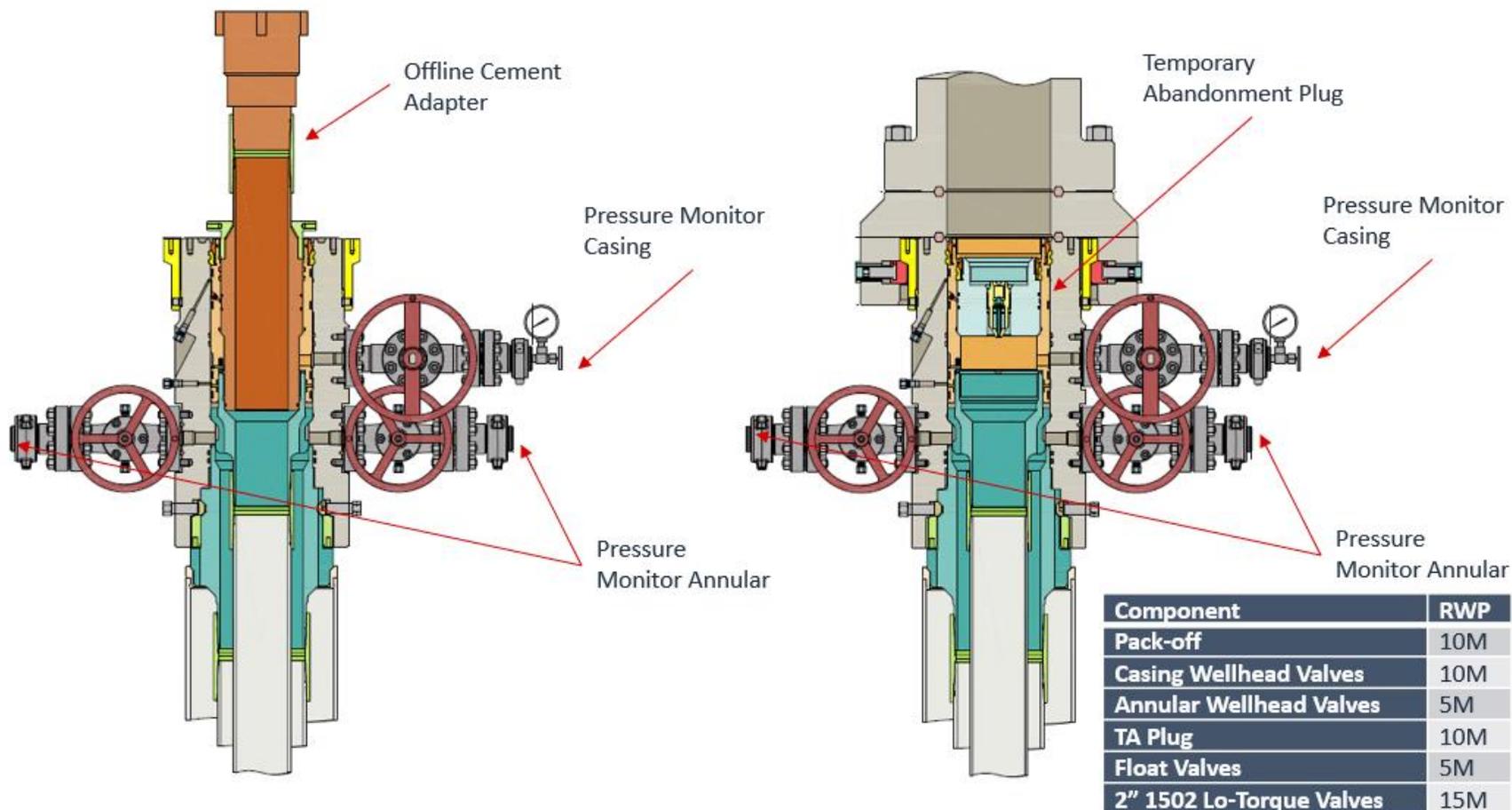




Figure 2: Cactus TA Plug and Offline Adapter Schematic

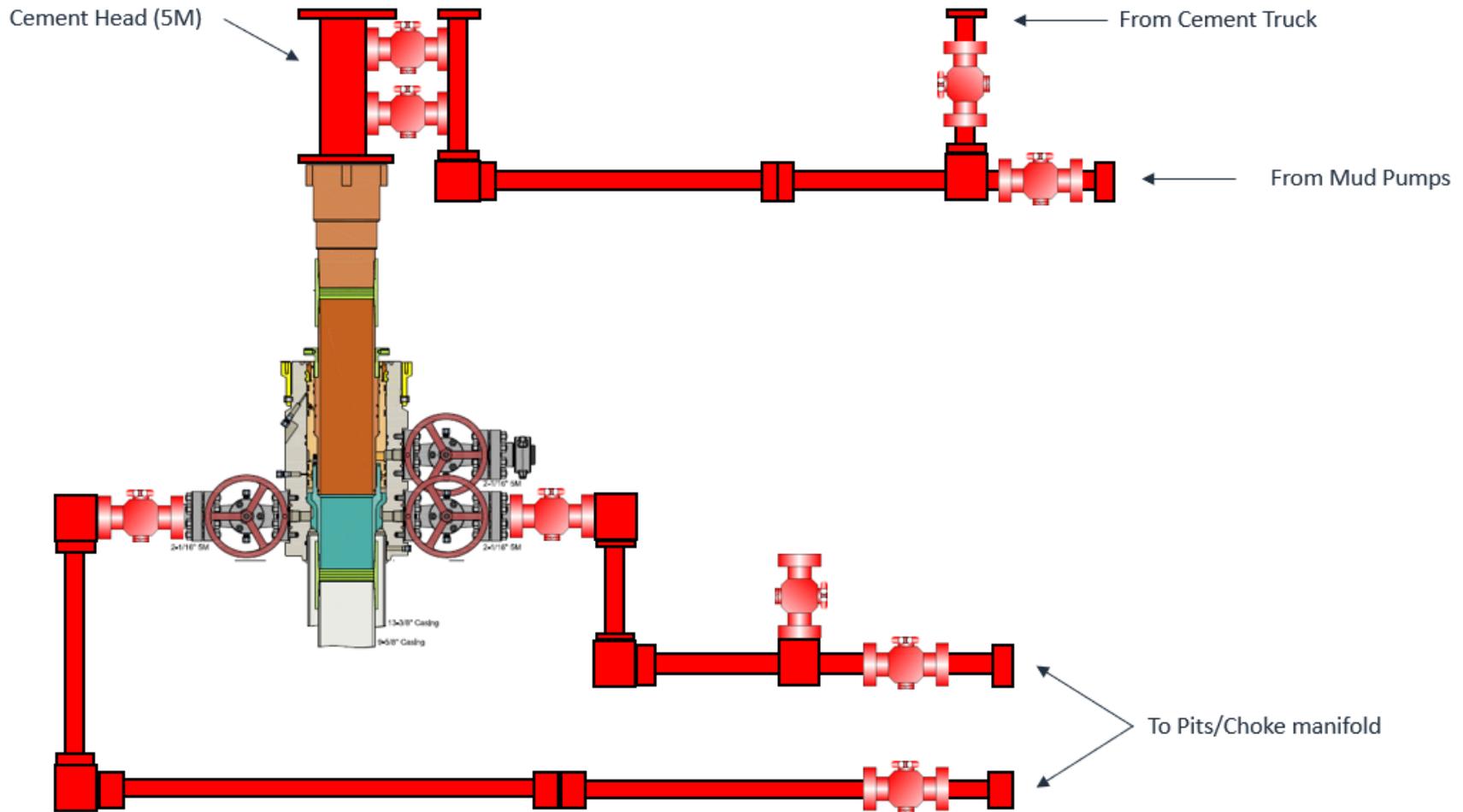




Offline Intermediate Cementing Procedure

2/24/2022

Figure 3: Back Yard Rig Up



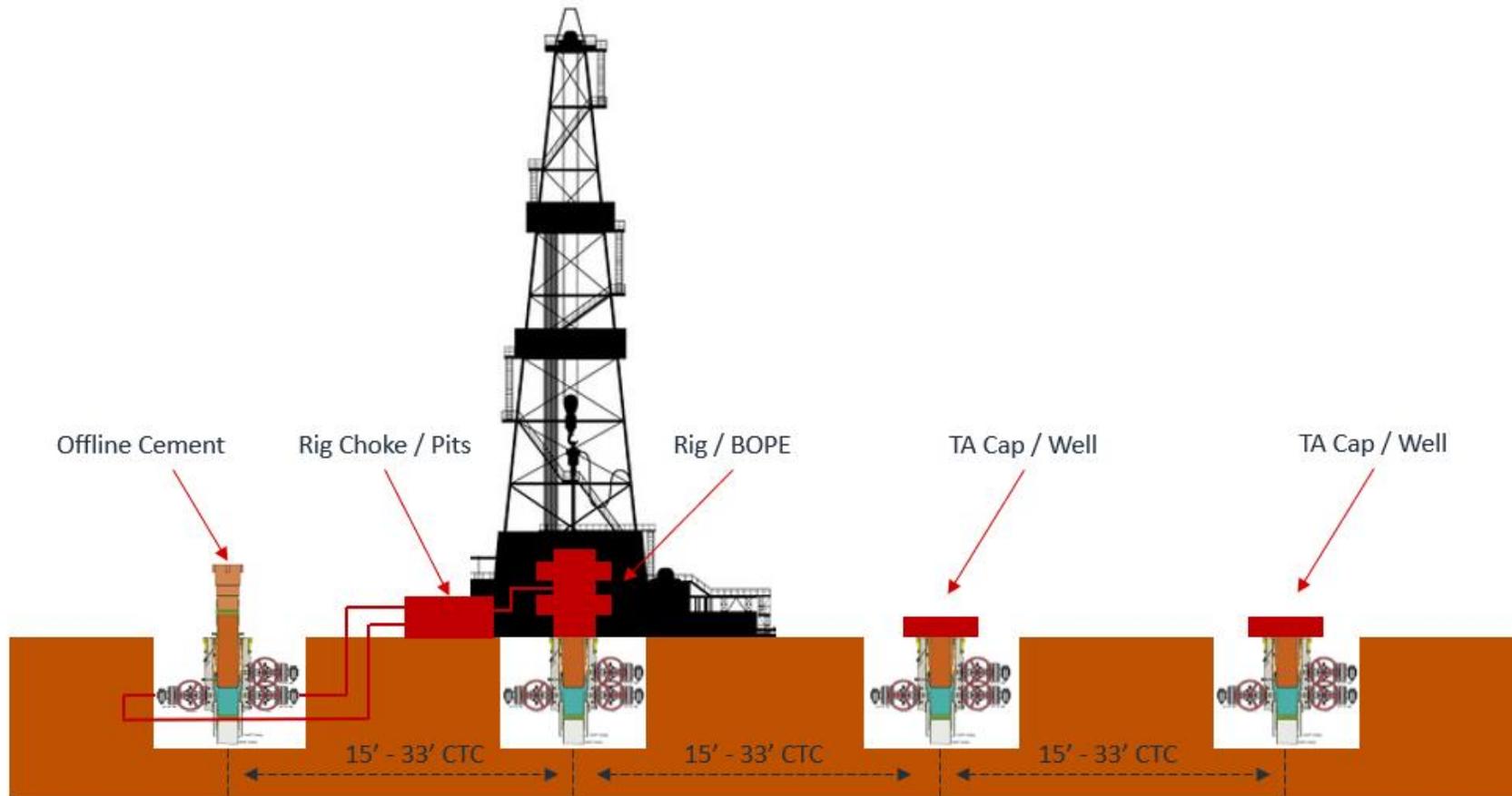
\*\*\* All Lines 10M rated working pressure

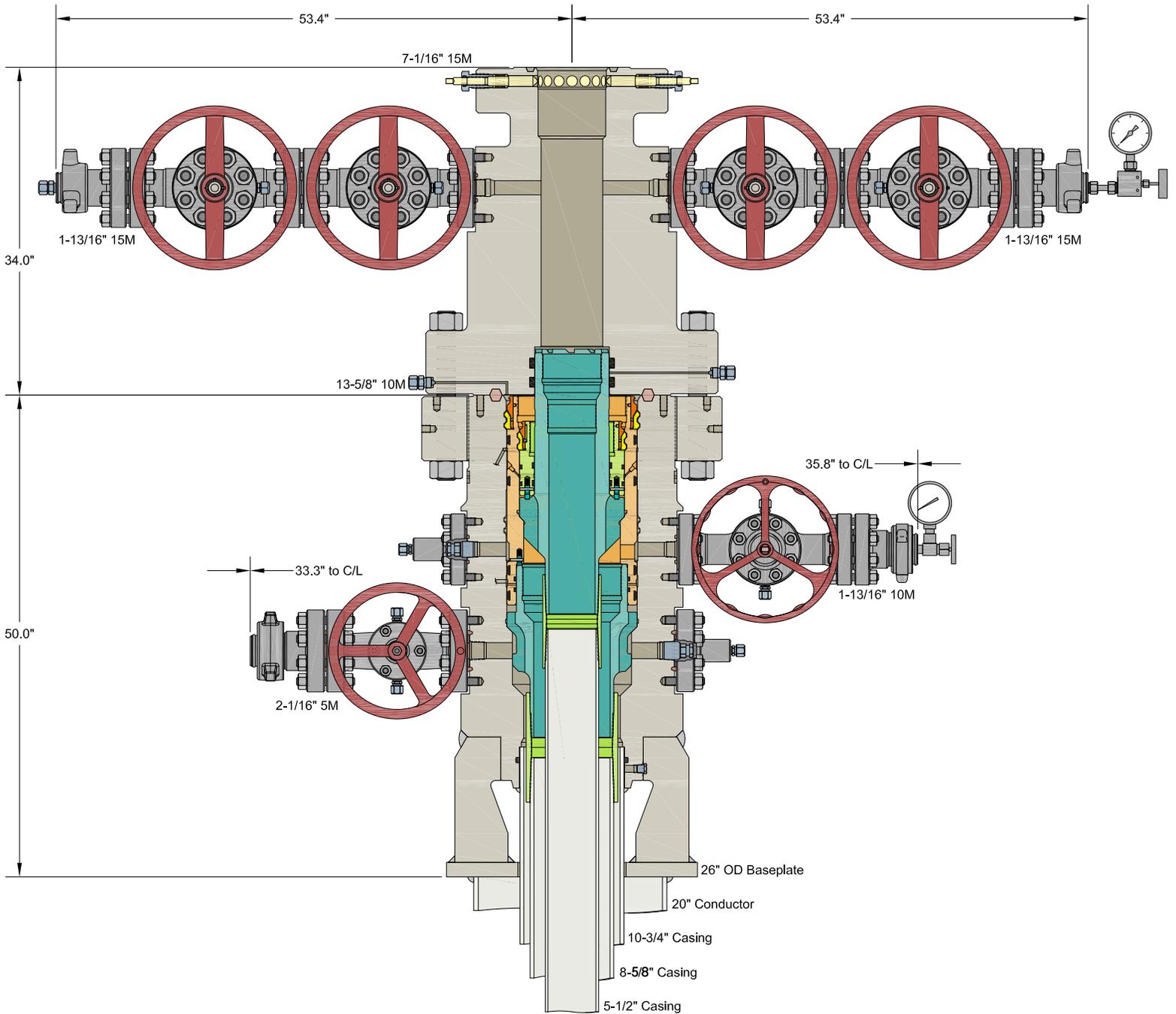


Offline Intermediate Cementing Procedure

2/24/2022

Figure 4: Rig Placement Diagram





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	



# Salt Section Annular Clearance Variance Request

---

---

Daniel Moose

# Current Design (Salt Strings)

## 0.422" Annular clearance requirement

- Casing collars shall have a minimum clearance of 0.422 inches on all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.

- 12.25" Hole x 9.625" 40# J55/HCK55 LTC Casing
  - 1.3125" Clearance to casing OD
  - 0.8125" Clearance to coupling OD
- 9.875" Hole x 8.75" 38.5# P110 Sprint-SF Casing
  - 0.5625" Clearance to casing OD
  - 0.433" Clearance to coupling OD

# Annular Clearance Variance Request

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

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

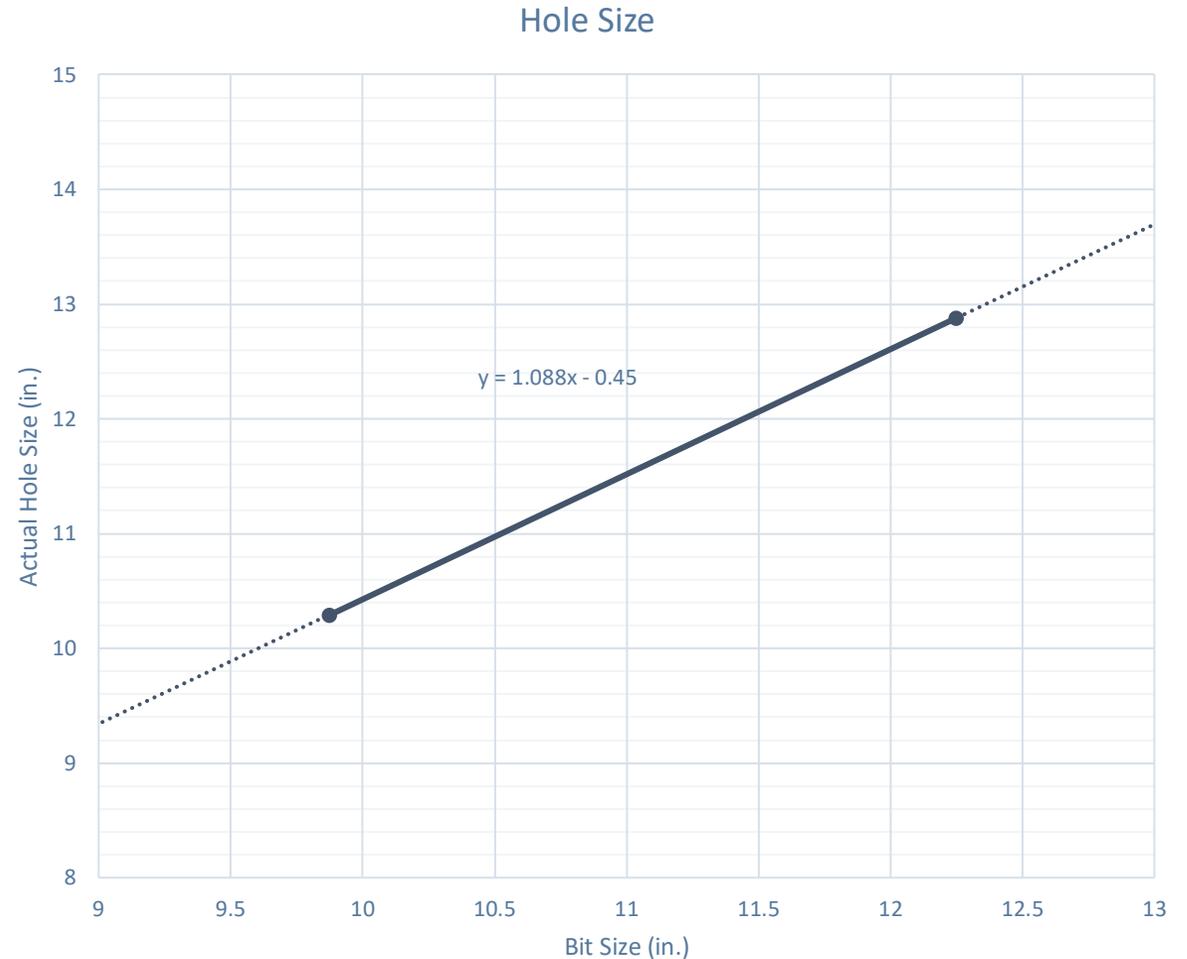
# Volumetric Hole Size Calculation

## Hole Size Calculations Off Cement Volumes

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

## Average Hole Size

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

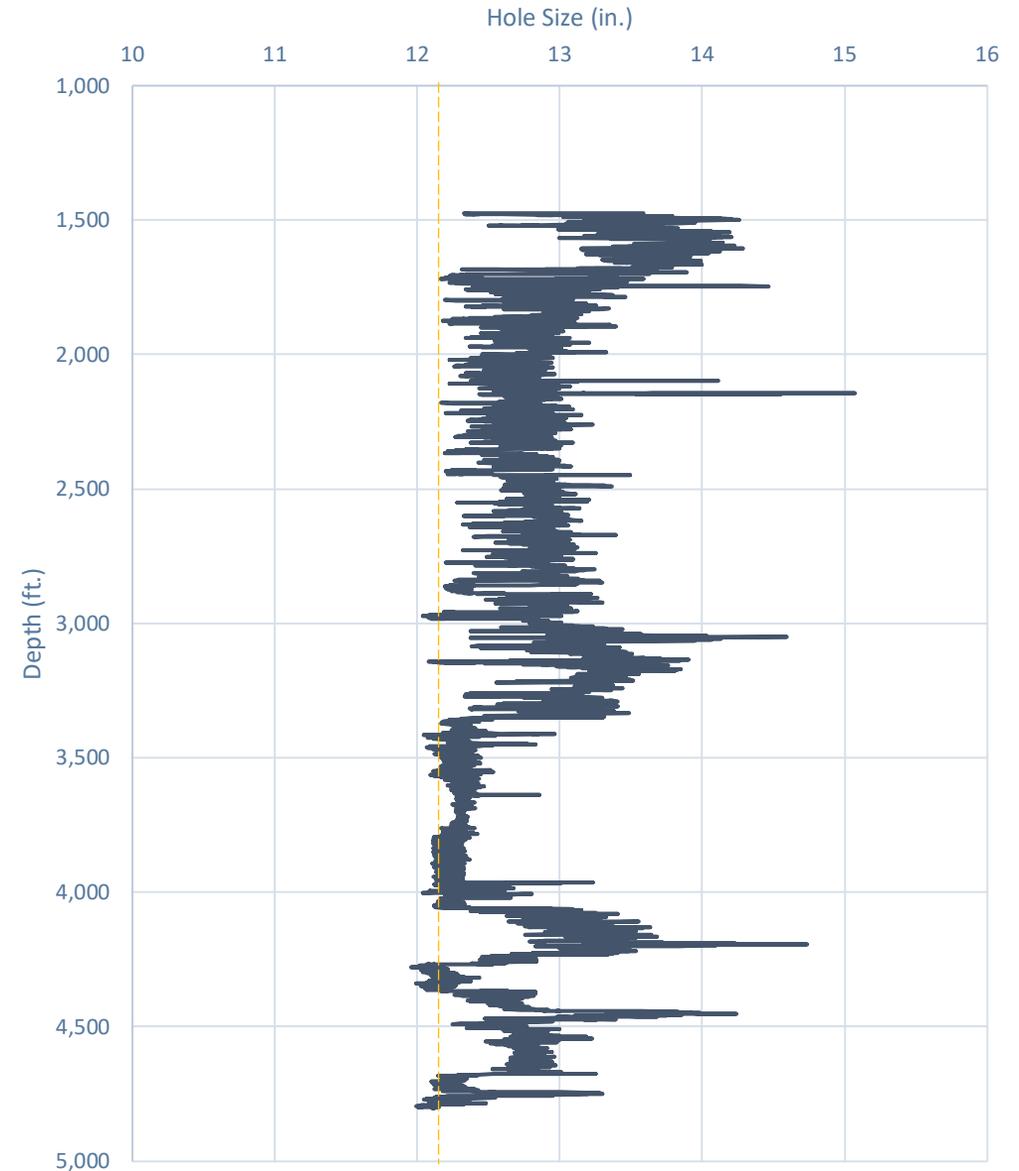


# Caliper Hole Size (12.25")

## 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

Modelo 10 Fed Com #501H

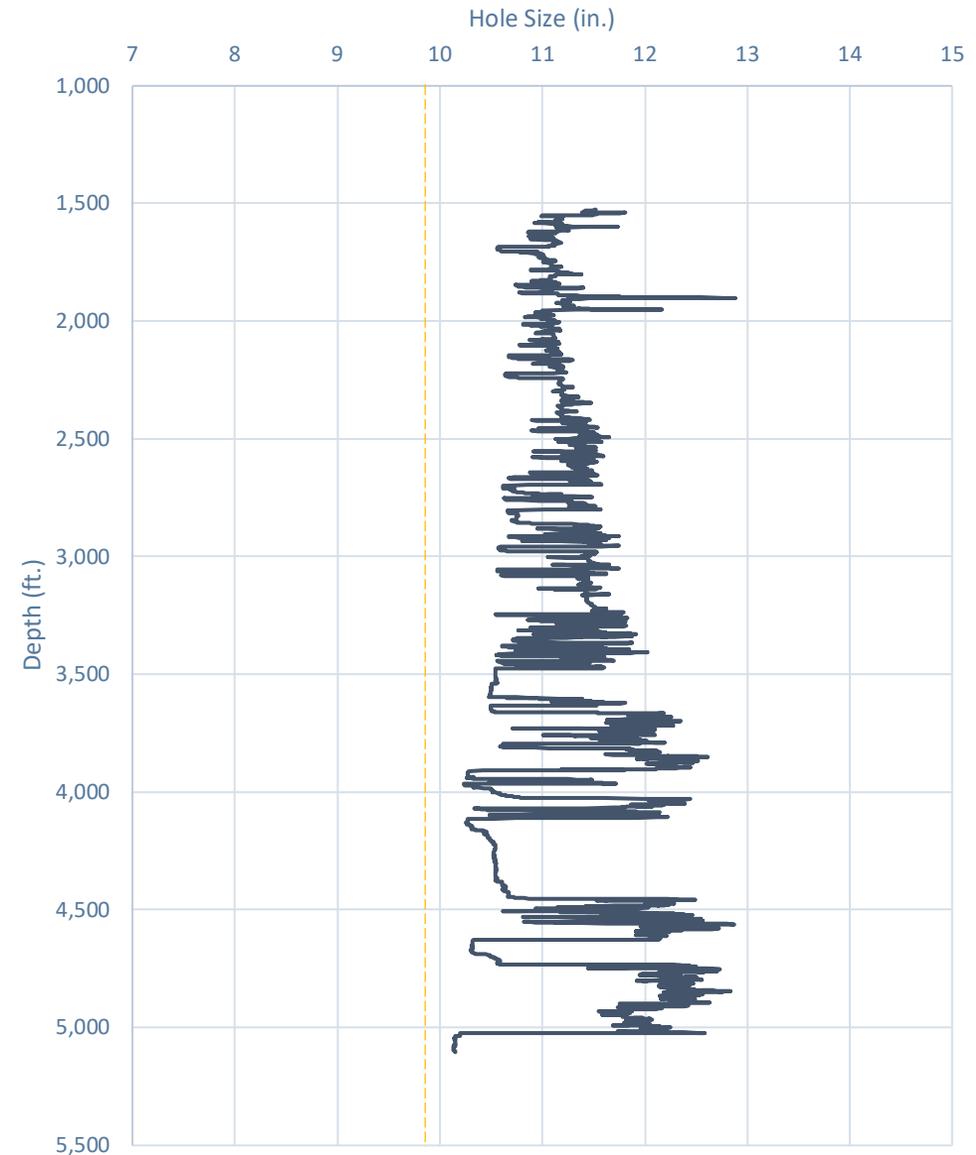


# Caliper Hole Size (9.875")

## Average Hole Size

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

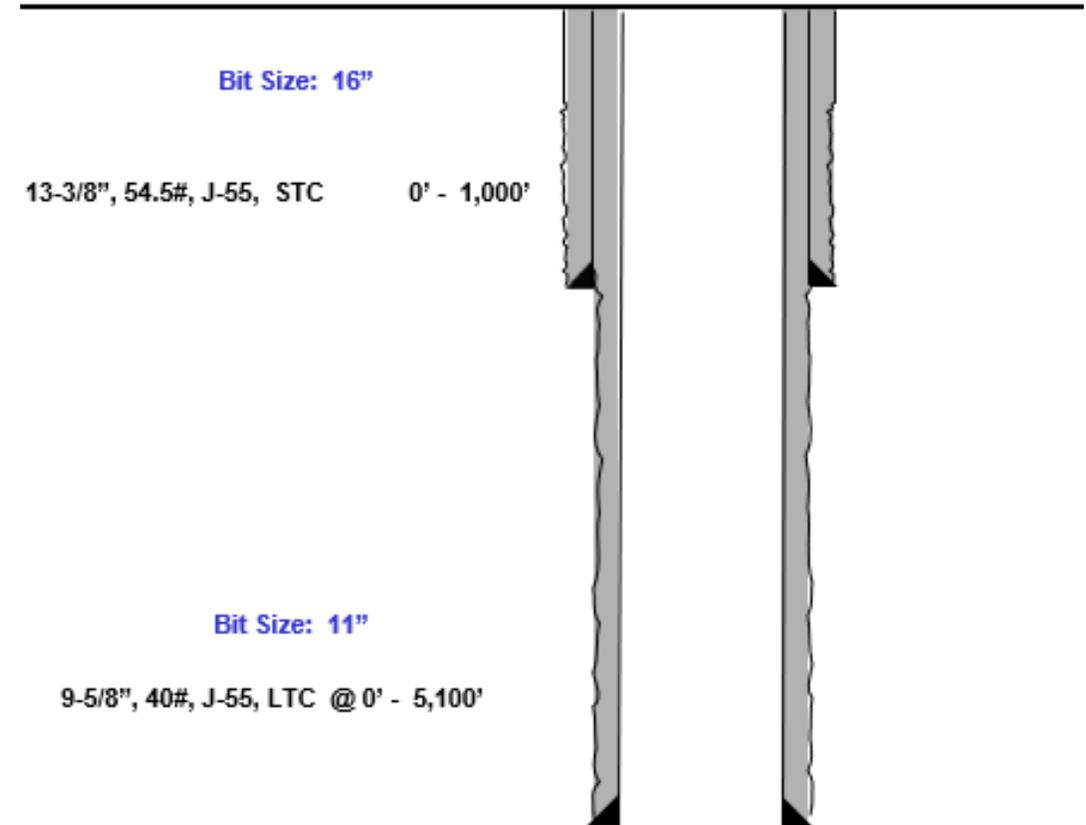
Whirling Wind 11 Fed Com #744H



# Design A

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

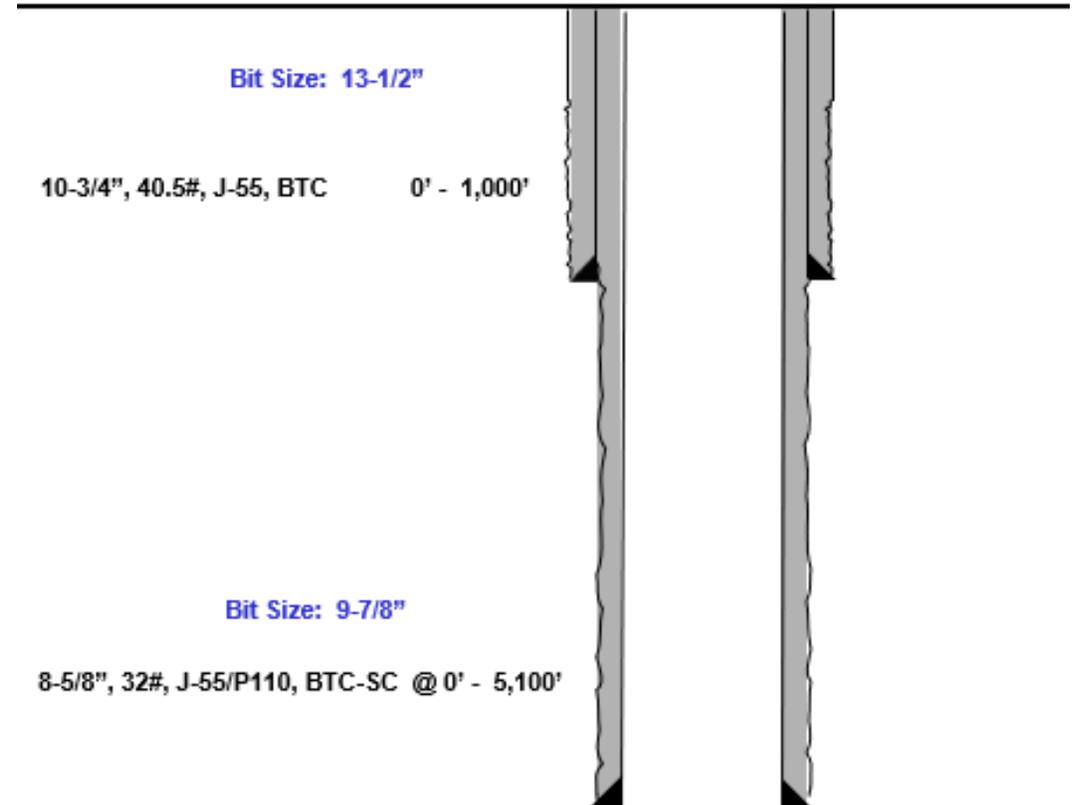
- 11" Bit + 0.52" Average hole enlargement = 11.52" Hole Size
  - 0.9475" Clearance to casing OD
 
$$= \frac{11.52 - 9.625}{2}$$
  - 0.4475" Clearance to coupling OD
 
$$= \frac{11.52 - 10.625}{2}$$
- Previous Shoe – 13.375" 54.5# J55 STC
  - 0.995" Clearance to coupling OD (~1,200' overlap)
 
$$= \frac{12.615 - 10.625}{2}$$



# Design B

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

- 9.875" Bit + 0.42" Average hole enlargement = 10.295" Hole Size
  - 0.835" Clearance to casing OD
 
$$= \frac{10.295 - 8.625}{2}$$
  - 0.585" Clearance to coupling OD
 
$$= \frac{10.295 - 9.125}{2}$$
- Previous Shoe – 10.75" 40.5# J55 STC
  - 0.4625" Clearance to coupling OD (~1,200' overlap)
 
$$= \frac{10.05 - 9.125}{2}$$





# Index





# 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



### 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 <sup>2</sup>
*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.

ALL INFORMATION IS PROVIDED BY VALLOUREC OR ITS AFFILIATES AT USER'S SOLE RISK, WITHOUT LIABILITY FOR LOSS, DAMAGE OR INJURY RESULTING FROM THE USE THEREOF, AND ON AN "AS IS" BASIS WITHOUT WARRANTY OR REPRESENTATION OF ANY KIND, WHETHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR PURPOSE, ACCURACY OR COMPLETENESS. THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND IS BASED ON ESTIMATES THAT HAVE NOT BEEN VERIFIED OR TESTED. IN NO EVENT SHALL VALLOUREC OR ITS AFFILIATES BE RESPONSIBLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL LOSS OR DAMAGE (INCLUDING WITHOUT LIMITATION, LOSS OF USE, LOSS OF BARGAIN, LOSS OF REVENUE, PROFIT OR ANTICIPATED PROFIT) HOWEVER CAUSED OR ARISING, AND WHETHER SUCH LOSSES OR DAMAGES WERE FORESEEABLE OR VALLOUREC OR ITS AFFILIATES WERE ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Rev 3, 7/30/2021

10/21/2022 15:24





## Calm Breeze 2 Fed Com 301H

### 1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

### 2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	961'
Tamarisk Anhydrite	1,048'
Top of Salt	1,315'
Base of Salt	4,834'
Lamar	5,063'
Bell Canyon	5,117'
Cherry Canyon	6,110'
Brushy Canyon	7,528'
Bone Spring Lime	9,216'
Leonard (Avalon) Shale	9,248'
1st Bone Spring Sand	10,143'
2nd Bone Spring Shale	10,358'
2nd Bone Spring Sand	10,687'
3rd Bone Spring Carb	11,167'
TD	10,183'

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

Upper Permian Sands	0- 400'	Fresh Water
Bell Canyon	5,117'	Oil
Cherry Canyon	6,110'	Oil
Brushy Canyon	7,528'	Oil
Leonard (Avalon) Shale	9,248'	Oil
1st Bone Spring Sand	10,143'	Oil
2nd Bone Spring Shale	10,358'	Oil
2nd Bone Spring Sand	10,687'	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 13-3/8" casing at 1,070' and circulating cement back to surface.



## Calm Breeze 2 Fed Com 301H

## 4. CASING PROGRAM

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
16"	0	1,070	0	1,070	13-3/8"	54.5#	J-55	STC
11"	0	4,025	0	4,000	9-5/8"	40#	J-55	LTC
11"	4,025	4,955	4,000	4,930	9-5/8"	40#	HCK-55	LTC
6-3/4"	0	17,771	0	10,183	5-1/2"	17#	HCP-110	LTC

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

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

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

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

**Cementing Program:**

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,070' 13-3/8"	320	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 870')
4,930' 9-5/8"	460	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	160	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 3944')
17,771' 5-1/2"	350	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4430')
	570	13.2	1.52	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 9730')



### Calm Breeze 2 Fed Com 301H

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.

#### 5. 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.



## Calm Breeze 2 Fed Com 301H

### 6. 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 – 1,070'	Fresh - Gel	8.6-8.8	28-34	N/c
1,070' – 4,940'	Brine	8.6-8.8	28-34	N/c
4,730' – 17,771' 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.

### 7. 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.

### 8. 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.

### 9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 172 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4,766 psig and a maximum anticipated surface pressure of 2,525 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 7,528' to intermediate casing point.



## Calm Breeze 2 Fed Com 301H

### 10. 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.

### 11. WELLHEAD & Offline Cementing:

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13-3/8" 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 Onshore Order No. 2.

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 Onshore Order No. 2 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.



## Calm Breeze 2 Fed Com 301H

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) 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 20 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



## Calm Breeze 2 Fed Com 301H

### 12. TUBING REQUIREMENTS

EOG respectfully requests an exception to the following NMOCD rule:

- 19.15.16.10 Casing AND TUBING REQUIREMENTS:  
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.



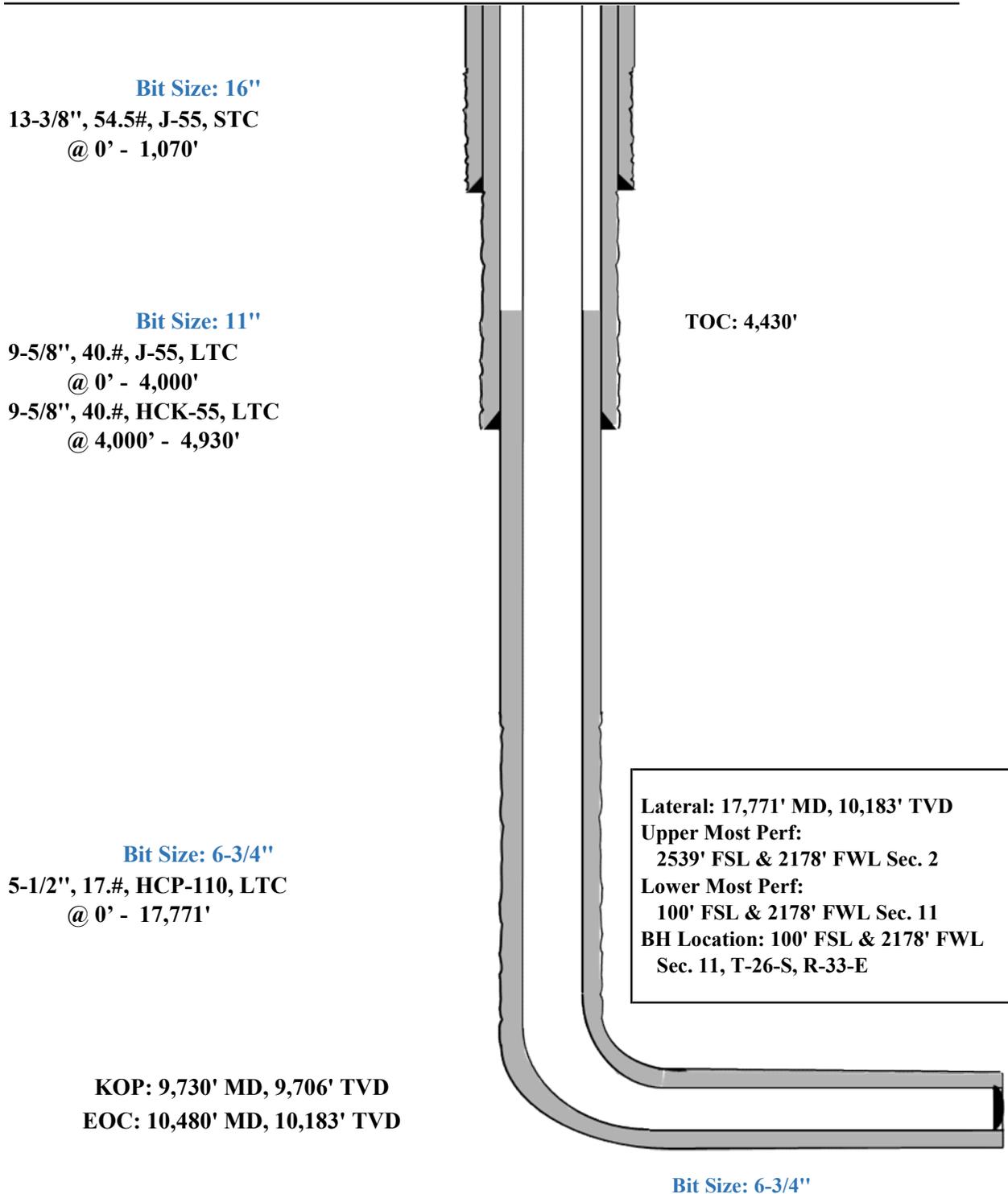
Calm Breeze 2 Fed Com 301H

2392' FSL  
1671' FWL  
Section 2  
T-26-S, R-33-E

Proposed Wellbore A

KB: 3346'  
GL: 3321'

API: 30-025-\*\*\*\*\*





### Calm Breeze 2 Fed Com 301H

Well Name: Calm Breeze 2 Fed Com 301H

Location: SHL: 2392' FSL & 1671' FWL, Section 2, T-26-S, R-33-E, Lea Co., N.M.

BHL: 100' FSL & 2178' FWL, Section 11, T-26-S, R-33-E, Lea Co., N.M.

#### Casing Program B:

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
13-1/2"	0	1,070	0	1,070	10-3/4"	40.5#	J-55	STC
9-7/8"	0	4,025	0	4,000	8-5/8"	32#	J-55	BTC-SC
9-7/8"	4,025	4,955	4,000	4,930	8-5/8"	32#	P110-EC	BTC-SC
6-3/4"	0	17,771	0	10,183	5-1/2"	17#	HCP-110	LTC

#### Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,070' 10-3/4"	360	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	110	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 870')
4,930' 8-5/8"	330	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	160	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 3,940')
17,771' 5-1/2"	540	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,430')
	590	13.2	1.52	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 9730')



### Calm Breeze 2 Fed Com 301H

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

#### Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) 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 30 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



Calm Breeze 2 Fed Com 301H

2392'

Proposed Wellbore B:

KB: 3346'

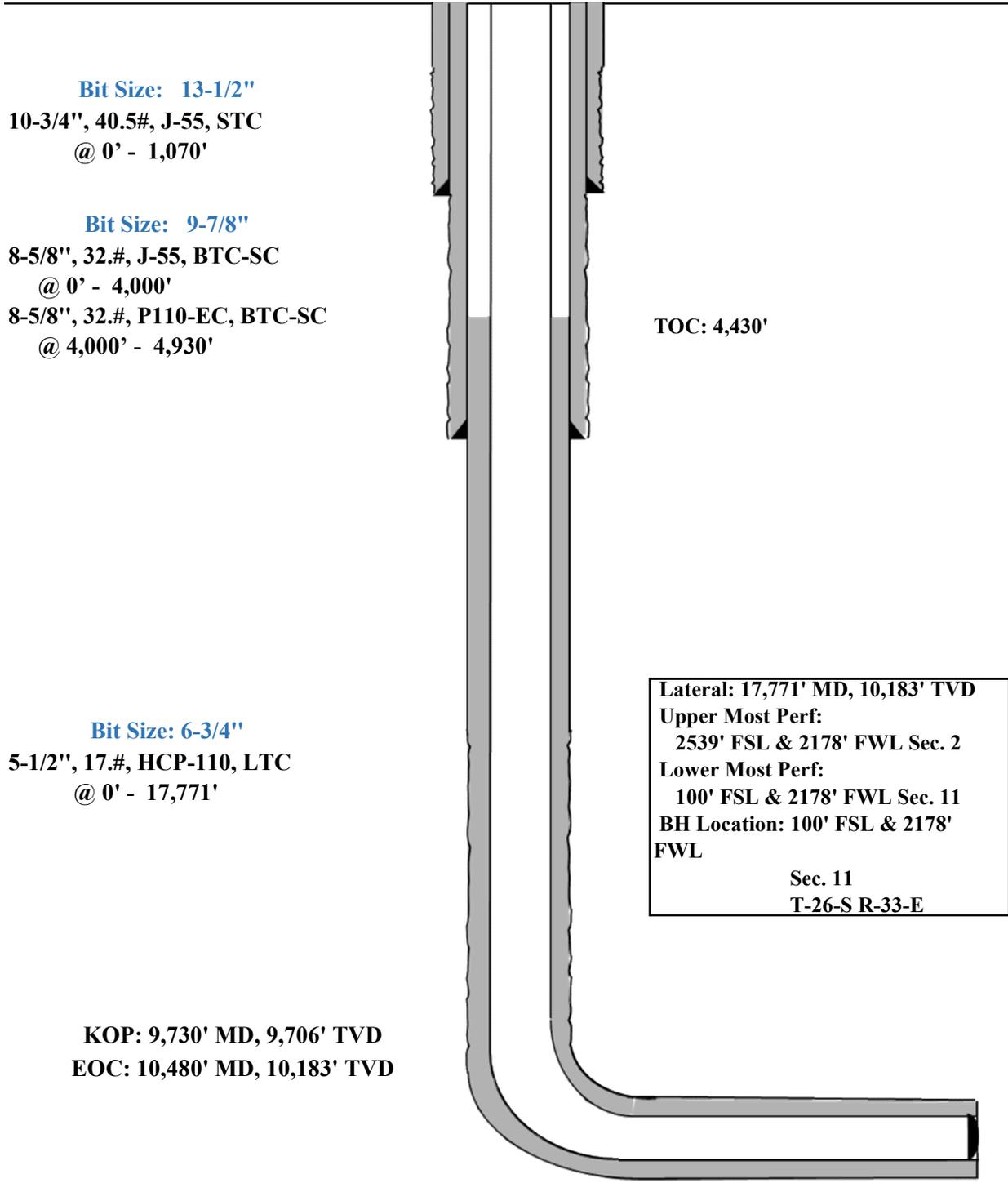
1671'

GL: 3321'

Section 2

T-26-S, R-33-E

API: 30-025-\*\*\*\*\*





Calm Breeze 2 Fed Com #301H

## Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H<sub>2</sub>S 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/Escapes 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
  - **H<sub>2</sub>S 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.



Calm Breeze 2 Fed Com #301H

■ **Mud Program:**

The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H<sub>2</sub>S 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 H<sub>2</sub>S service.

■ **Communication:**

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



Calm Breeze 2 Fed Com #301H

## Emergency Assistance Telephone List

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

**Lea County, NM (NAD 83 NME)**  
**Calm Breeze 2 Fed Com #301H**  
**Plan #0.1 RT**



**Azimuths to Grid North**  
 True North: -0.42°  
 Magnetic North: 5.89°

**Magnetic Field**  
 Strength: 47221.2nT  
 Dip Angle: 59.70°  
 Date: 3/28/2023  
 Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 5.89°  
 To convert a Magnetic Direction to a True Direction, Add 6.31° 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: #301H**

kb = 26' @ 3347.0usft      3321.0

<b>Northing</b>	<b>Easting</b>	<b>Latitude</b>	<b>Longitude</b>
390750.00	785134.00	32° 4' 18.506 N	103° 32' 46.534 W

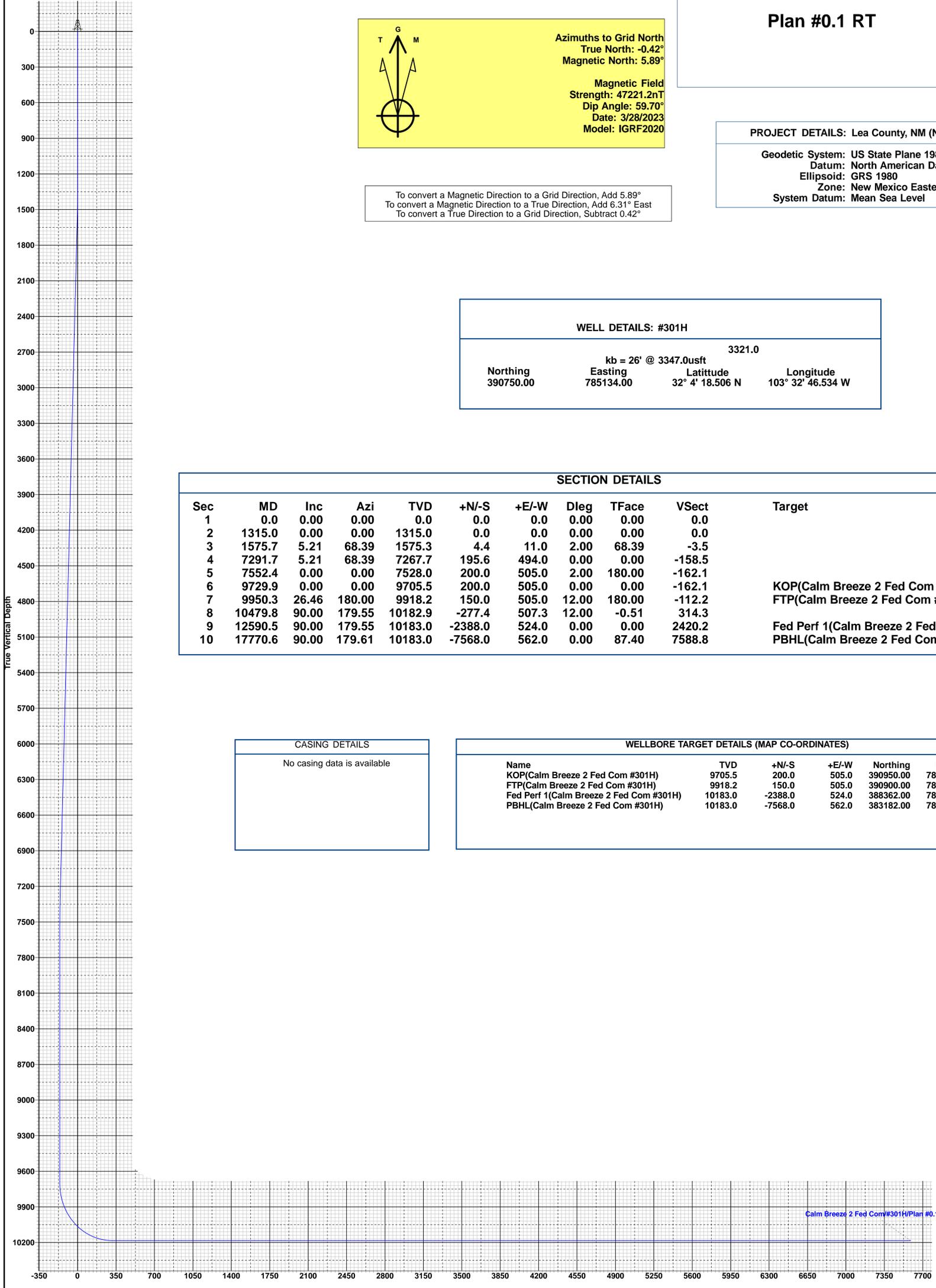
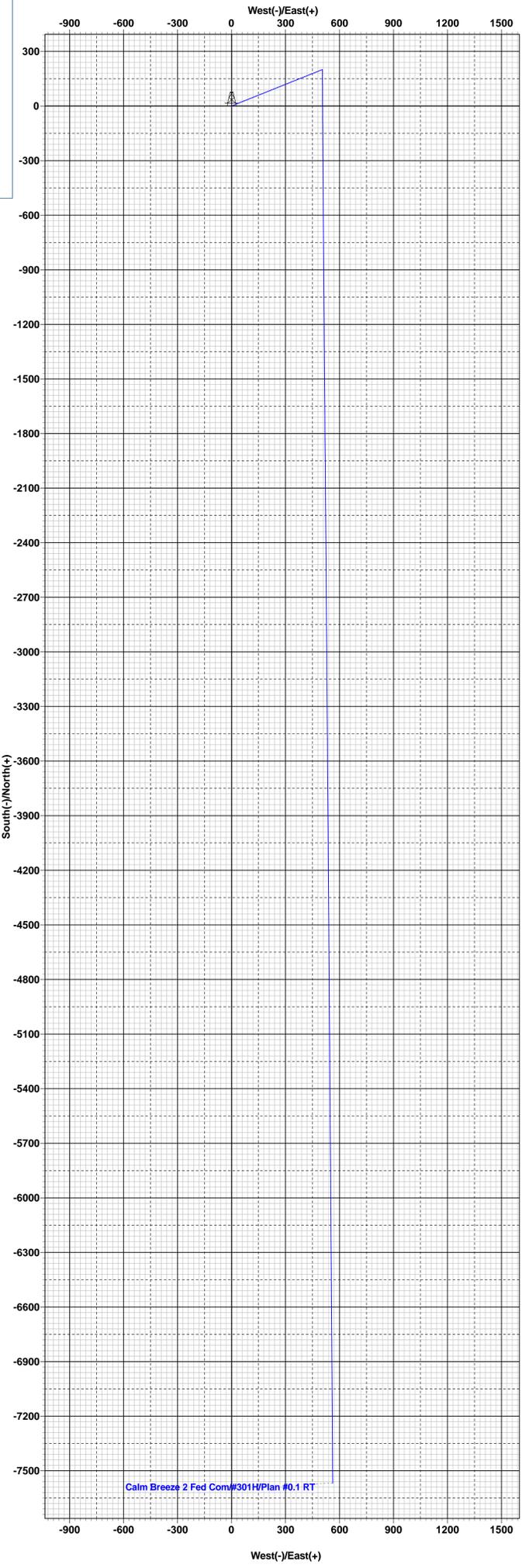
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1315.0	0.00	0.00	1315.0	0.0	0.0	0.00	0.00	0.0	
3	1575.7	5.21	68.39	1575.3	4.4	11.0	2.00	68.39	-3.5	
4	7291.7	5.21	68.39	7267.7	195.6	494.0	0.00	0.00	-158.5	
5	7552.4	0.00	0.00	7528.0	200.0	505.0	2.00	180.00	-162.1	
6	9729.9	0.00	0.00	9705.5	200.0	505.0	0.00	0.00	-162.1	KOP(Calm Breeze 2 Fed Com #301H)
7	9950.3	26.46	180.00	9918.2	150.0	505.0	12.00	180.00	-112.2	FTP(Calm Breeze 2 Fed Com #301H)
8	10479.8	90.00	179.55	10182.9	-277.4	507.3	12.00	-0.51	314.3	
9	12590.5	90.00	179.55	10183.0	-2388.0	524.0	0.00	0.00	2420.2	Fed Perf 1(Calm Breeze 2 Fed Com #301H)
10	17770.6	90.00	179.61	10183.0	-7568.0	562.0	0.00	87.40	7588.8	PBHL(Calm Breeze 2 Fed Com #301H)

**CASING DETAILS**

No casing data is available

**WELLBORE TARGET DETAILS (MAP CO-ORDINATES)**

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Calm Breeze 2 Fed Com #301H)	9705.5	200.0	505.0	390950.00	785639.00
FTP(Calm Breeze 2 Fed Com #301H)	9918.2	150.0	505.0	390900.00	785639.00
Fed Perf 1(Calm Breeze 2 Fed Com #301H)	10183.0	-2388.0	524.0	388362.00	785658.00
PBHL(Calm Breeze 2 Fed Com #301H)	10183.0	-7568.0	562.0	383182.00	785696.00



Vertical Section at 175.75°



## Midland

Lea County, NM (NAD 83 NME)  
Calm Breeze 2 Fed Com  
#301H

OH

Plan: Plan #0.1 RT

## Standard Planning Report

28 March, 2023



Planning Report

<b>Database:</b>	PEDM	<b>Local Co-ordinate Reference:</b>	Well #301H
<b>Company:</b>	Midland	<b>TVD Reference:</b>	kb = 26' @ 3347.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 26' @ 3347.0usft
<b>Site:</b>	Calm Breeze 2 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#301H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #0.1 RT		

<b>Project</b>	Lea County, NM (NAD 83 NME)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Site</b>	Calm Breeze 2 Fed Com				
<b>Site Position:</b>		<b>Northing:</b>	390,451.00 usft	<b>Latitude:</b>	32° 4' 15.635 N
<b>From:</b>	Map	<b>Easting:</b>	783,916.00 usft	<b>Longitude:</b>	103° 33' 0.714 W
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "		

<b>Well</b>	#301H					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	390,750.00 usft	<b>Latitude:</b>	32° 4' 18.506 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	785,134.00 usft	<b>Longitude:</b>	103° 32' 46.534 W
<b>Position Uncertainty</b>	0.0 usft		<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	3,321.0 usft
<b>Grid Convergence:</b>	0.42 °					

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	3/28/2023	6.31	59.70	47,221.19632883

<b>Design</b>	Plan #0.1 RT			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	175.75

<b>Plan Survey Tool Program</b>	<b>Date</b>	3/28/2023		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.0	17,770.6 Plan #0.1 RT (OH)	EOG MWD+IFR1 MWD + IFR1	



Planning Report

<b>Database:</b>	PEDM	<b>Local Co-ordinate Reference:</b>	Well #301H
<b>Company:</b>	Midland	<b>TVD Reference:</b>	kb = 26' @ 3347.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 26' @ 3347.0usft
<b>Site:</b>	Calm Breeze 2 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#301H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	
1,315.0	0.00	0.00	1,315.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,575.7	5.21	68.39	1,575.3	4.4	11.0	2.00	2.00	0.00	68.39	
7,291.7	5.21	68.39	7,267.7	195.6	494.0	0.00	0.00	0.00	0.00	
7,552.4	0.00	0.00	7,528.0	200.0	505.0	2.00	-2.00	0.00	180.00	
9,729.9	0.00	0.00	9,705.5	200.0	505.0	0.00	0.00	0.00	0.00	0.00 KOP(Calm Breeze 2 f
9,950.3	26.46	180.00	9,918.2	150.0	505.0	12.00	12.00	81.65	180.00	FTP(Calm Breeze 2 F
10,479.8	90.00	179.55	10,182.9	-277.4	507.3	12.00	12.00	-0.09	-0.51	
12,590.5	90.00	179.55	10,183.0	-2,388.0	524.0	0.00	0.00	0.00	0.00	Fed Perf 1(Calm Bree
17,770.6	90.00	179.61	10,183.0	-7,568.0	562.0	0.00	0.00	0.00	87.40	PBHL(Calm Breeze 2



Planning Report

<b>Database:</b>	PEDM	<b>Local Co-ordinate Reference:</b>	Well #301H
<b>Company:</b>	Midland	<b>TVD Reference:</b>	kb = 26' @ 3347.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 26' @ 3347.0usft
<b>Site:</b>	Calm Breeze 2 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#301H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,315.0	0.00	0.00	1,315.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	1.70	68.39	1,400.0	0.5	1.2	-0.4	2.00	2.00	0.00
1,500.0	3.70	68.39	1,499.9	2.2	5.6	-1.8	2.00	2.00	0.00
1,575.7	5.21	68.39	1,575.3	4.4	11.0	-3.5	2.00	2.00	0.00
1,600.0	5.21	68.39	1,599.5	5.2	13.1	-4.2	0.00	0.00	1.00
1,700.0	5.21	68.39	1,699.1	8.5	21.5	-6.9	0.00	0.00	0.00
1,800.0	5.21	68.39	1,798.7	11.9	30.0	-9.6	0.00	0.00	0.00
1,900.0	5.21	68.39	1,898.3	15.2	38.4	-12.3	0.00	0.00	0.00
2,000.0	5.21	68.39	1,997.9	18.6	46.9	-15.0	0.00	0.00	0.00
2,100.0	5.21	68.39	2,097.5	21.9	55.3	-17.8	0.00	0.00	0.00
2,200.0	5.21	68.39	2,197.1	25.3	63.8	-20.5	0.00	0.00	0.00
2,300.0	5.21	68.39	2,296.6	28.6	72.2	-23.2	0.00	0.00	0.00
2,400.0	5.21	68.39	2,396.2	31.9	80.7	-25.9	0.00	0.00	0.00
2,500.0	5.21	68.39	2,495.8	35.3	89.1	-28.6	0.00	0.00	0.00
2,600.0	5.21	68.39	2,595.4	38.6	97.6	-31.3	0.00	0.00	0.00
2,700.0	5.21	68.39	2,695.0	42.0	106.0	-34.0	0.00	0.00	0.00
2,800.0	5.21	68.39	2,794.6	45.3	114.5	-36.7	0.00	0.00	0.00
2,900.0	5.21	68.39	2,894.2	48.7	122.9	-39.4	0.00	0.00	0.00
3,000.0	5.21	68.39	2,993.7	52.0	131.4	-42.2	0.00	0.00	0.00
3,100.0	5.21	68.39	3,093.3	55.4	139.8	-44.9	0.00	0.00	0.00
3,200.0	5.21	68.39	3,192.9	58.7	148.3	-47.6	0.00	0.00	0.00
3,300.0	5.21	68.39	3,292.5	62.1	156.7	-50.3	0.00	0.00	0.00
3,400.0	5.21	68.39	3,392.1	65.4	165.2	-53.0	0.00	0.00	0.00
3,500.0	5.21	68.39	3,491.7	68.8	173.6	-55.7	0.00	0.00	0.00
3,600.0	5.21	68.39	3,591.3	72.1	182.1	-58.4	0.00	0.00	0.00
3,700.0	5.21	68.39	3,690.9	75.4	190.5	-61.1	0.00	0.00	0.00
3,800.0	5.21	68.39	3,790.4	78.8	199.0	-63.8	0.00	0.00	0.00
3,900.0	5.21	68.39	3,890.0	82.1	207.4	-66.6	0.00	0.00	0.00
4,000.0	5.21	68.39	3,989.6	85.5	215.9	-69.3	0.00	0.00	0.00
4,100.0	5.21	68.39	4,089.2	88.8	224.3	-72.0	0.00	0.00	0.00
4,200.0	5.21	68.39	4,188.8	92.2	232.8	-74.7	0.00	0.00	0.00
4,300.0	5.21	68.39	4,288.4	95.5	241.2	-77.4	0.00	0.00	0.00
4,400.0	5.21	68.39	4,388.0	98.9	249.7	-80.1	0.00	0.00	0.00
4,500.0	5.21	68.39	4,487.5	102.2	258.1	-82.8	0.00	0.00	0.00
4,600.0	5.21	68.39	4,587.1	105.6	266.6	-85.5	0.00	0.00	0.00
4,700.0	5.21	68.39	4,686.7	108.9	275.0	-88.2	0.00	0.00	0.00
4,800.0	5.21	68.39	4,786.3	112.3	283.5	-91.0	0.00	0.00	0.00
4,900.0	5.21	68.39	4,885.9	115.6	291.9	-93.7	0.00	0.00	0.00
5,000.0	5.21	68.39	4,985.5	119.0	300.3	-96.4	0.00	0.00	0.00
5,100.0	5.21	68.39	5,085.1	122.3	308.8	-99.1	0.00	0.00	0.00



Planning Report

<b>Database:</b>	PEDM	<b>Local Co-ordinate Reference:</b>	Well #301H
<b>Company:</b>	Midland	<b>TVD Reference:</b>	kb = 26' @ 3347.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 26' @ 3347.0usft
<b>Site:</b>	Calm Breeze 2 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#301H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #0.1 RT		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.0	5.21	68.39	5,184.6	125.6	317.2	-101.8	0.00	0.00	0.00	
5,300.0	5.21	68.39	5,284.2	129.0	325.7	-104.5	0.00	0.00	0.00	
5,400.0	5.21	68.39	5,383.8	132.3	334.1	-107.2	0.00	0.00	0.00	
5,500.0	5.21	68.39	5,483.4	135.7	342.6	-109.9	0.00	0.00	0.00	
5,600.0	5.21	68.39	5,583.0	139.0	351.0	-112.6	0.00	0.00	0.00	
5,700.0	5.21	68.39	5,682.6	142.4	359.5	-115.4	0.00	0.00	0.00	
5,800.0	5.21	68.39	5,782.2	145.7	367.9	-118.1	0.00	0.00	0.00	
5,900.0	5.21	68.39	5,881.7	149.1	376.4	-120.8	0.00	0.00	0.00	
6,000.0	5.21	68.39	5,981.3	152.4	384.8	-123.5	0.00	0.00	0.00	
6,100.0	5.21	68.39	6,080.9	155.8	393.3	-126.2	0.00	0.00	0.00	
6,200.0	5.21	68.39	6,180.5	159.1	401.7	-128.9	0.00	0.00	0.00	
6,300.0	5.21	68.39	6,280.1	162.5	410.2	-131.6	0.00	0.00	0.00	
6,400.0	5.21	68.39	6,379.7	165.8	418.6	-134.3	0.00	0.00	0.00	
6,500.0	5.21	68.39	6,479.3	169.1	427.1	-137.1	0.00	0.00	0.00	
6,600.0	5.21	68.39	6,578.8	172.5	435.5	-139.8	0.00	0.00	0.00	
6,700.0	5.21	68.39	6,678.4	175.8	444.0	-142.5	0.00	0.00	0.00	
6,800.0	5.21	68.39	6,778.0	179.2	452.4	-145.2	0.00	0.00	0.00	
6,900.0	5.21	68.39	6,877.6	182.5	460.9	-147.9	0.00	0.00	0.00	
7,000.0	5.21	68.39	6,977.2	185.9	469.3	-150.6	0.00	0.00	0.00	
7,100.0	5.21	68.39	7,076.8	189.2	477.8	-153.3	0.00	0.00	0.00	
7,200.0	5.21	68.39	7,176.4	192.6	486.2	-156.0	0.00	0.00	0.00	
7,291.7	5.21	68.39	7,267.7	195.6	494.0	-158.5	0.00	0.00	0.00	
7,300.0	5.05	68.39	7,276.0	195.9	494.7	-158.7	2.00	-2.00	0.00	
7,400.0	3.05	68.39	7,375.7	198.5	501.2	-160.8	2.00	-2.00	0.00	
7,500.0	1.05	68.39	7,475.6	199.8	504.6	-161.9	2.00	-2.00	0.00	
7,552.4	0.00	0.00	7,528.0	200.0	505.0	-162.1	2.00	-2.00	0.00	
7,600.0	0.00	0.00	7,575.6	200.0	505.0	-162.1	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,675.6	200.0	505.0	-162.1	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,775.6	200.0	505.0	-162.1	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,875.6	200.0	505.0	-162.1	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,975.6	200.0	505.0	-162.1	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,075.6	200.0	505.0	-162.1	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,175.6	200.0	505.0	-162.1	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,275.6	200.0	505.0	-162.1	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,375.6	200.0	505.0	-162.1	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,475.6	200.0	505.0	-162.1	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,575.6	200.0	505.0	-162.1	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,675.6	200.0	505.0	-162.1	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,775.6	200.0	505.0	-162.1	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,875.6	200.0	505.0	-162.1	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,975.6	200.0	505.0	-162.1	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,075.6	200.0	505.0	-162.1	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,175.6	200.0	505.0	-162.1	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,275.6	200.0	505.0	-162.1	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,375.6	200.0	505.0	-162.1	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,475.6	200.0	505.0	-162.1	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,575.6	200.0	505.0	-162.1	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,675.6	200.0	505.0	-162.1	0.00	0.00	0.00	
9,729.9	0.00	0.00	9,705.5	200.0	505.0	-162.1	0.00	0.00	0.00	
9,750.0	2.42	180.00	9,725.6	199.6	505.0	-161.6	12.00	12.00	0.00	
9,775.0	5.42	180.00	9,750.6	197.9	505.0	-159.9	12.00	12.00	0.00	
9,800.0	8.42	180.00	9,775.4	194.9	505.0	-156.9	12.00	12.00	0.00	
9,825.0	11.42	180.00	9,800.0	190.6	505.0	-152.6	12.00	12.00	0.00	
9,850.0	14.42	180.00	9,824.4	185.0	505.0	-147.1	12.00	12.00	0.00	



Planning Report

<b>Database:</b>	PEDM	<b>Local Co-ordinate Reference:</b>	Well #301H
<b>Company:</b>	Midland	<b>TVD Reference:</b>	kb = 26' @ 3347.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 26' @ 3347.0usft
<b>Site:</b>	Calm Breeze 2 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#301H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)	
9,875.0	17.42	180.00	9,848.4	178.1	505.0	-140.2	12.00	12.00	0.00	
9,900.0	20.42	180.00	9,872.1	170.0	505.0	-132.1	12.00	12.00	0.00	
9,925.0	23.42	180.00	9,895.2	160.7	505.0	-122.8	12.00	12.00	0.00	
9,950.3	26.46	180.00	9,918.2	150.0	505.0	-112.2	12.00	12.00	0.00	
9,975.0	29.42	179.95	9,940.0	138.4	505.0	-100.7	12.00	12.00	-0.22	
10,000.0	32.42	179.90	9,961.4	125.6	505.0	-87.9	12.00	12.00	-0.18	
10,025.0	35.42	179.86	9,982.2	111.6	505.1	-73.9	12.00	12.00	-0.15	
10,050.0	38.42	179.83	10,002.2	96.6	505.1	-59.0	12.00	12.00	-0.13	
10,075.0	41.42	179.80	10,021.3	80.6	505.1	-43.0	12.00	12.00	-0.11	
10,100.0	44.42	179.78	10,039.7	63.6	505.2	-26.0	12.00	12.00	-0.10	
10,125.0	47.42	179.75	10,057.0	45.6	505.3	-8.1	12.00	12.00	-0.09	
10,150.0	50.42	179.73	10,073.5	26.8	505.4	10.7	12.00	12.00	-0.08	
10,175.0	53.42	179.71	10,088.9	7.1	505.5	30.4	12.00	12.00	-0.08	
10,200.0	56.42	179.70	10,103.3	-13.4	505.6	50.8	12.00	12.00	-0.07	
10,225.0	59.42	179.68	10,116.5	-34.5	505.7	71.9	12.00	12.00	-0.07	
10,250.0	62.42	179.67	10,128.7	-56.4	505.8	93.7	12.00	12.00	-0.06	
10,275.0	65.42	179.65	10,139.7	-78.8	505.9	116.1	12.00	12.00	-0.06	
10,300.0	68.42	179.64	10,149.5	-101.8	506.1	139.0	12.00	12.00	-0.06	
10,325.0	71.42	179.62	10,158.1	-125.3	506.2	162.5	12.00	12.00	-0.05	
10,350.0	74.42	179.61	10,165.4	-149.2	506.4	186.3	12.00	12.00	-0.05	
10,375.0	77.42	179.60	10,171.5	-173.4	506.6	210.5	12.00	12.00	-0.05	
10,400.0	80.42	179.59	10,176.3	-198.0	506.7	235.0	12.00	12.00	-0.05	
10,425.0	83.42	179.57	10,179.8	-222.7	506.9	259.7	12.00	12.00	-0.05	
10,450.0	86.42	179.56	10,182.0	-247.6	507.1	284.5	12.00	12.00	-0.05	
10,475.0	89.42	179.55	10,182.9	-272.6	507.3	309.4	12.00	12.00	-0.05	
10,479.8	90.00	179.55	10,182.9	-277.4	507.3	314.3	12.00	12.00	-0.05	
10,500.0	90.00	179.55	10,182.9	-297.6	507.5	334.4	0.00	0.00	0.00	
10,600.0	90.00	179.55	10,182.9	-397.6	508.3	434.1	0.00	0.00	0.00	
10,700.0	90.00	179.55	10,183.0	-497.6	509.1	533.9	0.00	0.00	0.00	
10,800.0	90.00	179.55	10,183.0	-597.6	509.9	633.7	0.00	0.00	0.00	
10,900.0	90.00	179.55	10,183.0	-697.6	510.7	733.5	0.00	0.00	0.00	
11,000.0	90.00	179.55	10,183.0	-797.6	511.4	833.3	0.00	0.00	0.00	
11,100.0	90.00	179.55	10,183.0	-897.6	512.2	933.1	0.00	0.00	0.00	
11,200.0	90.00	179.55	10,183.0	-997.6	513.0	1,032.8	0.00	0.00	0.00	
11,300.0	90.00	179.55	10,183.0	-1,097.6	513.8	1,132.6	0.00	0.00	0.00	
11,400.0	90.00	179.55	10,183.0	-1,197.6	514.6	1,232.4	0.00	0.00	0.00	
11,500.0	90.00	179.55	10,183.0	-1,297.6	515.4	1,332.2	0.00	0.00	0.00	
11,600.0	90.00	179.55	10,183.0	-1,397.6	516.2	1,432.0	0.00	0.00	0.00	
11,700.0	90.00	179.55	10,183.0	-1,497.6	517.0	1,531.7	0.00	0.00	0.00	
11,800.0	90.00	179.55	10,183.0	-1,597.6	517.8	1,631.5	0.00	0.00	0.00	
11,900.0	90.00	179.55	10,183.0	-1,697.6	518.5	1,731.3	0.00	0.00	0.00	
12,000.0	90.00	179.55	10,183.0	-1,797.6	519.3	1,831.1	0.00	0.00	0.00	
12,100.0	90.00	179.55	10,183.0	-1,897.6	520.1	1,930.9	0.00	0.00	0.00	
12,200.0	90.00	179.55	10,183.0	-1,997.5	520.9	2,030.6	0.00	0.00	0.00	
12,300.0	90.00	179.55	10,183.0	-2,097.5	521.7	2,130.4	0.00	0.00	0.00	
12,400.0	90.00	179.55	10,183.0	-2,197.5	522.5	2,230.2	0.00	0.00	0.00	
12,500.0	90.00	179.55	10,183.0	-2,297.5	523.3	2,330.0	0.00	0.00	0.00	
12,590.5	90.00	179.55	10,183.0	-2,388.0	524.0	2,420.2	0.00	0.00	0.00	
12,600.0	90.00	179.55	10,183.0	-2,397.5	524.1	2,429.8	0.00	0.00	0.00	
12,700.0	90.00	179.55	10,183.0	-2,497.5	524.9	2,529.5	0.00	0.00	0.00	
12,800.0	90.00	179.55	10,183.0	-2,597.5	525.6	2,629.3	0.00	0.00	0.00	
12,900.0	90.00	179.55	10,183.0	-2,697.5	526.4	2,729.1	0.00	0.00	0.00	
13,000.0	90.00	179.55	10,183.0	-2,797.5	527.2	2,828.9	0.00	0.00	0.00	
13,100.0	90.00	179.55	10,183.0	-2,897.5	528.0	2,928.7	0.00	0.00	0.00	



Planning Report

<b>Database:</b>	PEDM	<b>Local Co-ordinate Reference:</b>	Well #301H
<b>Company:</b>	Midland	<b>TVD Reference:</b>	kb = 26' @ 3347.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 26' @ 3347.0usft
<b>Site:</b>	Calm Breeze 2 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#301H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
13,200.0	90.00	179.56	10,183.0	-2,997.5	528.8	3,028.4	0.00	0.00	0.00
13,300.0	90.00	179.56	10,183.0	-3,097.5	529.5	3,128.2	0.00	0.00	0.00
13,400.0	90.00	179.56	10,183.0	-3,197.5	530.3	3,228.0	0.00	0.00	0.00
13,500.0	90.00	179.56	10,183.0	-3,297.5	531.1	3,327.8	0.00	0.00	0.00
13,600.0	90.00	179.56	10,183.0	-3,397.5	531.9	3,427.6	0.00	0.00	0.00
13,700.0	90.00	179.56	10,183.0	-3,497.5	532.6	3,527.3	0.00	0.00	0.00
13,800.0	90.00	179.56	10,183.0	-3,597.5	533.4	3,627.1	0.00	0.00	0.00
13,900.0	90.00	179.56	10,183.0	-3,697.5	534.2	3,726.9	0.00	0.00	0.00
14,000.0	90.00	179.57	10,183.0	-3,797.5	534.9	3,826.7	0.00	0.00	0.00
14,100.0	90.00	179.57	10,183.0	-3,897.5	535.7	3,926.5	0.00	0.00	0.00
14,200.0	90.00	179.57	10,183.0	-3,997.5	536.4	4,026.2	0.00	0.00	0.00
14,300.0	90.00	179.57	10,183.0	-4,097.5	537.2	4,126.0	0.00	0.00	0.00
14,400.0	90.00	179.57	10,183.0	-4,197.5	537.9	4,225.8	0.00	0.00	0.00
14,500.0	90.00	179.57	10,183.0	-4,297.5	538.7	4,325.6	0.00	0.00	0.00
14,600.0	90.00	179.57	10,183.0	-4,397.5	539.4	4,425.4	0.00	0.00	0.00
14,700.0	90.00	179.57	10,183.0	-4,497.5	540.2	4,525.1	0.00	0.00	0.00
14,800.0	90.00	179.57	10,183.0	-4,597.5	540.9	4,624.9	0.00	0.00	0.00
14,900.0	90.00	179.58	10,183.0	-4,697.5	541.7	4,724.7	0.00	0.00	0.00
15,000.0	90.00	179.58	10,183.0	-4,797.5	542.4	4,824.5	0.00	0.00	0.00
15,100.0	90.00	179.58	10,183.0	-4,897.5	543.1	4,924.2	0.00	0.00	0.00
15,200.0	90.00	179.58	10,183.0	-4,997.5	543.9	5,024.0	0.00	0.00	0.00
15,300.0	90.00	179.58	10,183.0	-5,097.5	544.6	5,123.8	0.00	0.00	0.00
15,400.0	90.00	179.58	10,183.0	-5,197.5	545.3	5,223.6	0.00	0.00	0.00
15,500.0	90.00	179.58	10,183.0	-5,297.5	546.1	5,323.3	0.00	0.00	0.00
15,600.0	90.00	179.58	10,183.0	-5,397.5	546.8	5,423.1	0.00	0.00	0.00
15,700.0	90.00	179.59	10,183.0	-5,497.4	547.5	5,522.9	0.00	0.00	0.00
15,800.0	90.00	179.59	10,183.0	-5,597.4	548.2	5,622.7	0.00	0.00	0.00
15,900.0	90.00	179.59	10,183.0	-5,697.4	548.9	5,722.5	0.00	0.00	0.00
16,000.0	90.00	179.59	10,183.0	-5,797.4	549.7	5,822.2	0.00	0.00	0.00
16,100.0	90.00	179.59	10,183.0	-5,897.4	550.4	5,922.0	0.00	0.00	0.00
16,200.0	90.00	179.59	10,183.0	-5,997.4	551.1	6,021.8	0.00	0.00	0.00
16,300.0	90.00	179.59	10,183.0	-6,097.4	551.8	6,121.6	0.00	0.00	0.00
16,400.0	90.00	179.59	10,183.0	-6,197.4	552.5	6,221.3	0.00	0.00	0.00
16,500.0	90.00	179.60	10,183.0	-6,297.4	553.2	6,321.1	0.00	0.00	0.00
16,600.0	90.00	179.60	10,183.0	-6,397.4	553.9	6,420.9	0.00	0.00	0.00
16,700.0	90.00	179.60	10,183.0	-6,497.4	554.6	6,520.7	0.00	0.00	0.00
16,800.0	90.00	179.60	10,183.0	-6,597.4	555.3	6,620.4	0.00	0.00	0.00
16,900.0	90.00	179.60	10,183.0	-6,697.4	556.0	6,720.2	0.00	0.00	0.00
17,000.0	90.00	179.60	10,183.0	-6,797.4	556.7	6,820.0	0.00	0.00	0.00
17,100.0	90.00	179.60	10,183.0	-6,897.4	557.4	6,919.8	0.00	0.00	0.00
17,200.0	90.00	179.60	10,183.0	-6,997.4	558.1	7,019.5	0.00	0.00	0.00
17,300.0	90.00	179.61	10,183.0	-7,097.4	558.8	7,119.3	0.00	0.00	0.00
17,400.0	90.00	179.61	10,183.0	-7,197.4	559.5	7,219.1	0.00	0.00	0.00
17,500.0	90.00	179.61	10,183.0	-7,297.4	560.2	7,318.8	0.00	0.00	0.00
17,600.0	90.00	179.61	10,183.0	-7,397.4	560.8	7,418.6	0.00	0.00	0.00
17,700.0	90.00	179.61	10,183.0	-7,497.4	561.5	7,518.4	0.00	0.00	0.00
17,770.6	90.00	179.61	10,183.0	-7,568.0	562.0	7,588.8	0.00	0.00	0.00



Planning Report

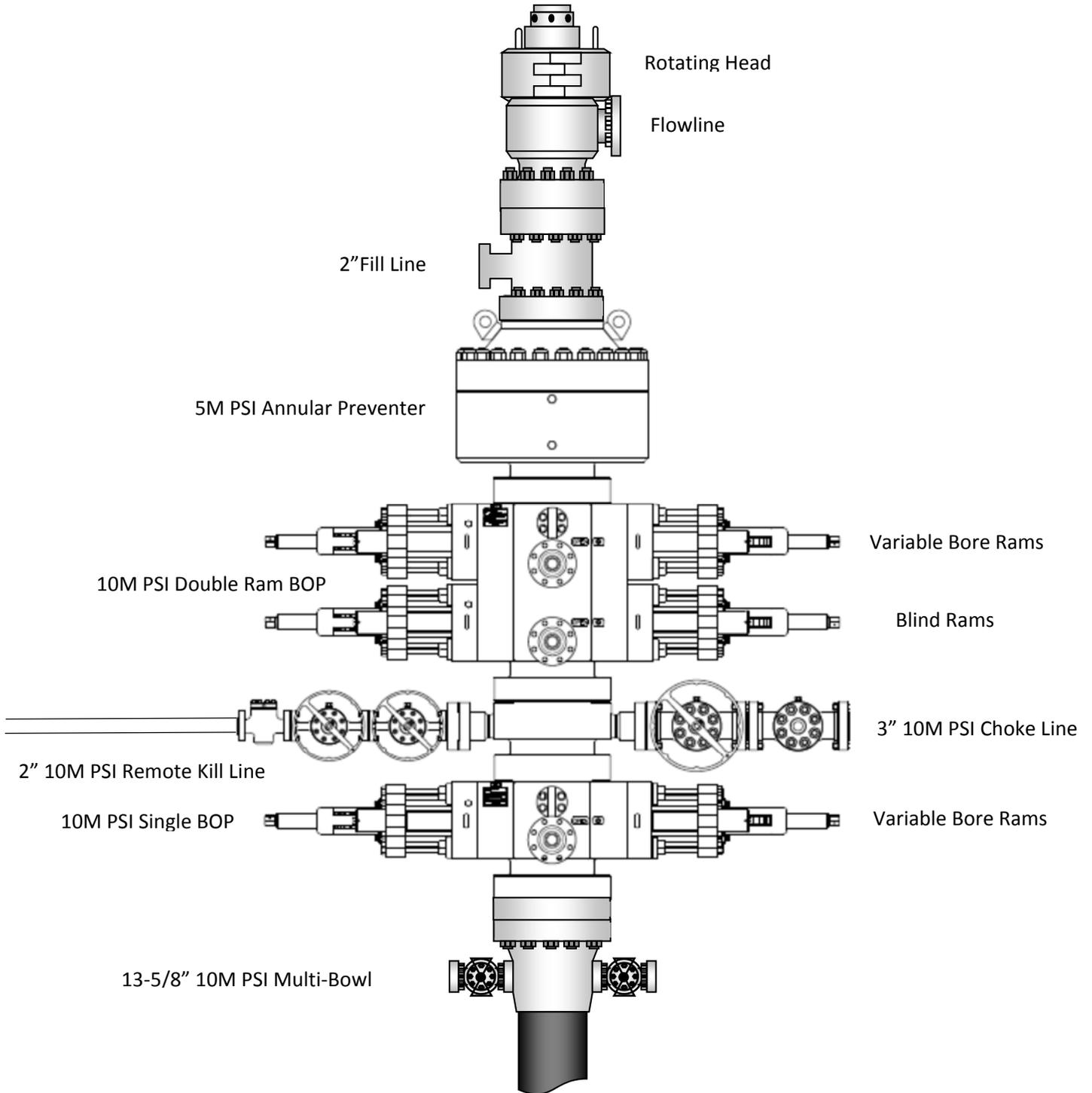
<b>Database:</b>	PEDM	<b>Local Co-ordinate Reference:</b>	Well #301H
<b>Company:</b>	Midland	<b>TVD Reference:</b>	kb = 26' @ 3347.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 26' @ 3347.0usft
<b>Site:</b>	Calm Breeze 2 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#301H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #0.1 RT		

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(Calm Breeze 2 Fed - plan hits target center - Point	0.00	0.00	9,705.5	200.0	505.0	390,950.00	785,639.00	32° 4' 20.448 N	103° 32' 40.649 W
FTP(Calm Breeze 2 Fed - plan hits target center - Point	0.00	0.00	9,918.2	150.0	505.0	390,900.00	785,639.00	32° 4' 19.954 N	103° 32' 40.653 W
PBHL(Calm Breeze 2 Fed - plan hits target center - Point	0.00	0.00	10,183.0	-7,568.0	562.0	383,182.00	785,696.00	32° 3' 3.577 N	103° 32' 40.646 W
Fed Perf 1(Calm Breeze - plan hits target center - Point	0.00	0.00	10,183.0	-2,388.0	524.0	388,362.00	785,658.00	32° 3' 54.838 N	103° 32' 40.648 W

# Exhibit 1

## EOG Resources

### 13-5/8" 10M PSI BOP Stack



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
Dimenstons	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

Released to Imaging: 1/21/2026 1:45:00 PM



**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 <sup>2</sup>
*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)					
<i>follow API guidelines regarding positional make up</i>					

\*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.

ALL INFORMATION IS PROVIDED BY VALLOUREC OR ITS AFFILIATES AT USER'S SOLE RISK, WITHOUT LIABILITY FOR LOSS, DAMAGE OR INJURY RESULTING FROM THE USE THEREOF; AND ON AN "AS IS" BASIS WITHOUT WARRANTY OR REPRESENTATION OF ANY KIND, WHETHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR PURPOSE, ACCURACY OR COMPLETENESS. THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND IS BASED ON ESTIMATES THAT HAVE NOT BEEN VERIFIED OR TESTED. IN NO EVENT SHALL VALLOUREC OR ITS AFFILIATES BE RESPONSIBLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL LOSS OR DAMAGE (INCLUDING WITHOUT LIMITATION, LOSS OF USE, LOSS OF BARGAIN, LOSS OF REVENUE, PROFIT OR ANTICIPATED PROFIT) HOWEVER CAUSED OR ARISING, AND WHETHER SUCH LOSSES OR DAMAGES WERE FORESEEABLE OR VALLOUREC OR ITS AFFILIATES WERE ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

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



## Calm Breeze 2 Fed Com 301H

### 1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

### 2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	961'
Tamarisk Anhydrite	1,048'
Top of Salt	1,315'
Base of Salt	4,834'
Lamar	5,063'
Bell Canyon	5,117'
Cherry Canyon	6,110'
Brushy Canyon	7,528'
Bone Spring Lime	9,216'
Leonard (Avalon) Shale	9,248'
1st Bone Spring Sand	10,143'
2nd Bone Spring Shale	10,358'
2nd Bone Spring Sand	10,687'
3rd Bone Spring Carb	11,167'
TD	10,183'

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

Upper Permian Sands	0- 400'	Fresh Water
Bell Canyon	5,117'	Oil
Cherry Canyon	6,110'	Oil
Brushy Canyon	7,528'	Oil
Leonard (Avalon) Shale	9,248'	Oil
1st Bone Spring Sand	10,143'	Oil
2nd Bone Spring Shale	10,358'	Oil
2nd Bone Spring Sand	10,687'	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 13-3/8" casing at 1,070' and circulating cement back to surface.



## Calm Breeze 2 Fed Com 301H

## 4. CASING PROGRAM

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
16"	0	1,070	0	1,070	13-3/8"	54.5#	J-55	STC
11"	0	4,025	0	4,000	9-5/8"	40#	J-55	LTC
11"	4,025	4,955	4,000	4,930	9-5/8"	40#	HCK-55	LTC
6-3/4"	0	17,771	0	10,183	5-1/2"	17#	HCP-110	LTC

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

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

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

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

**Cementing Program:**

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,070' 13-3/8"	320	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 870')
4,930' 9-5/8"	460	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	160	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 3944')
17,771' 5-1/2"	350	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4430')
	570	13.2	1.52	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 9730')



### Calm Breeze 2 Fed Com 301H

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.

#### 5. 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.



## Calm Breeze 2 Fed Com 301H

### 6. 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 – 1,070'	Fresh - Gel	8.6-8.8	28-34	N/c
1,070' – 4,940'	Brine	8.6-8.8	28-34	N/c
4,730' – 17,771' 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.

### 7. 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.

### 8. 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.

### 9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 172 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4,766 psig and a maximum anticipated surface pressure of 2,525 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 7,528' to intermediate casing point.



## Calm Breeze 2 Fed Com 301H

### 10. 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.

### 11. WELLHEAD & Offline Cementing:

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13-3/8" 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 Onshore Order No. 2.

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 Onshore Order No. 2 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.



## Calm Breeze 2 Fed Com 301H

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) 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 20 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



## Calm Breeze 2 Fed Com 301H

### 12. TUBING REQUIREMENTS

EOG respectfully requests an exception to the following NMOCD rule:

- 19.15.16.10 Casing AND TUBING REQUIREMENTS:  
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.



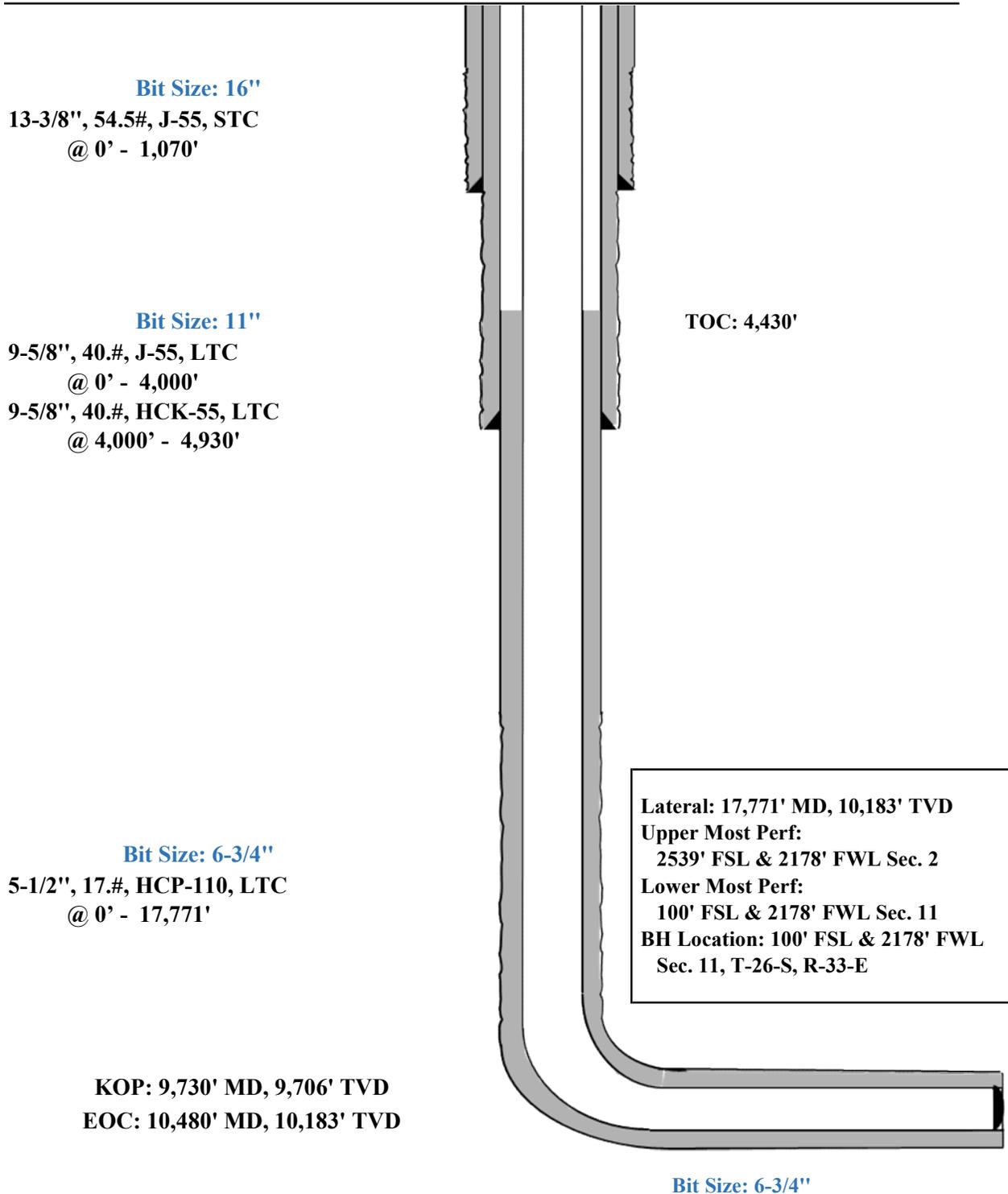
Calm Breeze 2 Fed Com 301H

2392' FSL  
1671' FWL  
Section 2  
T-26-S, R-33-E

Proposed Wellbore A

KB: 3346'  
GL: 3321'

API: 30-025-\*\*\*\*\*





### Calm Breeze 2 Fed Com 301H

Well Name: Calm Breeze 2 Fed Com 301H

Location: SHL: 2392' FSL & 1671' FWL, Section 2, T-26-S, R-33-E, Lea Co., N.M.

BHL: 100' FSL & 2178' FWL, Section 11, T-26-S, R-33-E, Lea Co., N.M.

#### Casing Program B:

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
13-1/2"	0	1,070	0	1,070	10-3/4"	40.5#	J-55	STC
9-7/8"	0	4,025	0	4,000	8-5/8"	32#	J-55	BTC-SC
9-7/8"	4,025	4,955	4,000	4,930	8-5/8"	32#	P110-EC	BTC-SC
6-3/4"	0	17,771	0	10,183	5-1/2"	17#	HCP-110	LTC

#### Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,070' 10-3/4"	360	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	110	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 870')
4,930' 8-5/8"	330	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	160	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 3,940')
17,771' 5-1/2"	540	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,430')
	590	13.2	1.52	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 9730')



### Calm Breeze 2 Fed Com 301H

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

#### Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) 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 30 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



Calm Breeze 2 Fed Com 301H

2392'

Proposed Wellbore B:

KB: 3346'

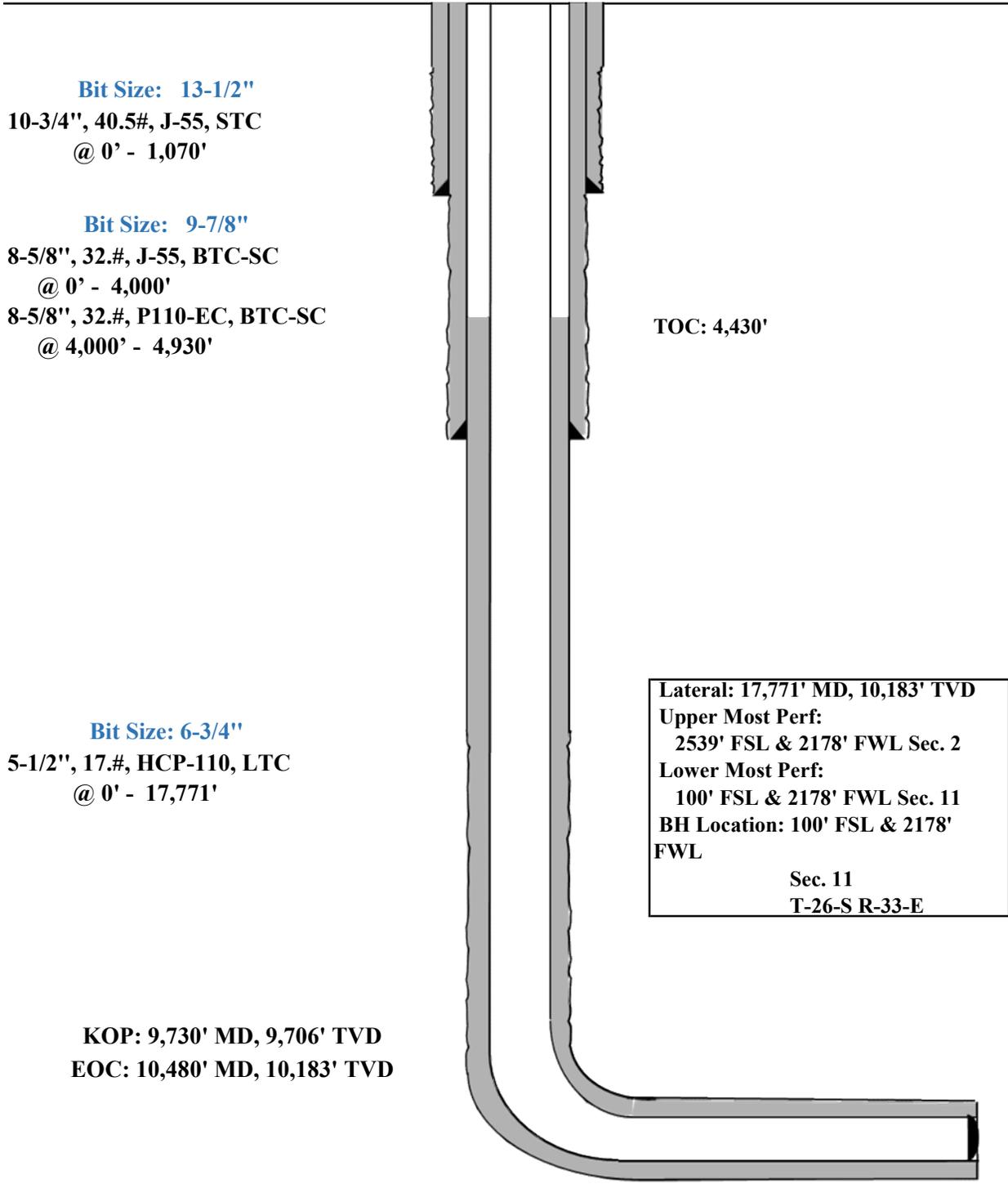
1671'

GL: 3321'

Section 2

T-26-S, R-33-E

API: 30-025-\*\*\*\*\*



Bit Size: 13-1/2"

10-3/4", 40.5#, J-55, STC

@ 0' - 1,070'

Bit Size: 9-7/8"

8-5/8", 32.#, J-55, BTC-SC

@ 0' - 4,000'

8-5/8", 32.#, P110-EC, BTC-SC

@ 4,000' - 4,930'

TOC: 4,430'

Bit Size: 6-3/4"

5-1/2", 17.#, HCP-110, LTC

@ 0' - 17,771'

Lateral: 17,771' MD, 10,183' TVD

Upper Most Perf:

2539' FSL & 2178' FWL Sec. 2

Lower Most Perf:

100' FSL & 2178' FWL Sec. 11

BH Location: 100' FSL & 2178'

FWL

Sec. 11

T-26-S R-33-E

KOP: 9,730' MD, 9,706' TVD

EOC: 10,480' MD, 10,183' TVD

VALLOUREC STAR 8.625 32# P110EC S S2L2 DA 7.875 W/O# SLN# PO# MADE IN USA FT LB



**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	P110EC	7.796	87.5

Material Properties (PE)	
Pipe	
Minimum Yield Strength:	125 ksi
Maximum Yield Strength:	140 ksi
Minimum Tensile Strength:	135 ksi
Coupling	
Minimum Yield Strength:	125 ksi
Maximum Yield Strength:	140 ksi
Minimum Tensile Strength:	135 ksi

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

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

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

API Connection Torque			
STC Torque (ft-lbs)			
Min:	5,948	Opti:	7,930
Max:	9,913		
LTC Torque (ft-lbs)			
Min:	6,653	Opti:	8,870
Max:	11,088		
BTC Torque (ft-lbs)			
<i>follow API guidelines regarding positional make up</i>			

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

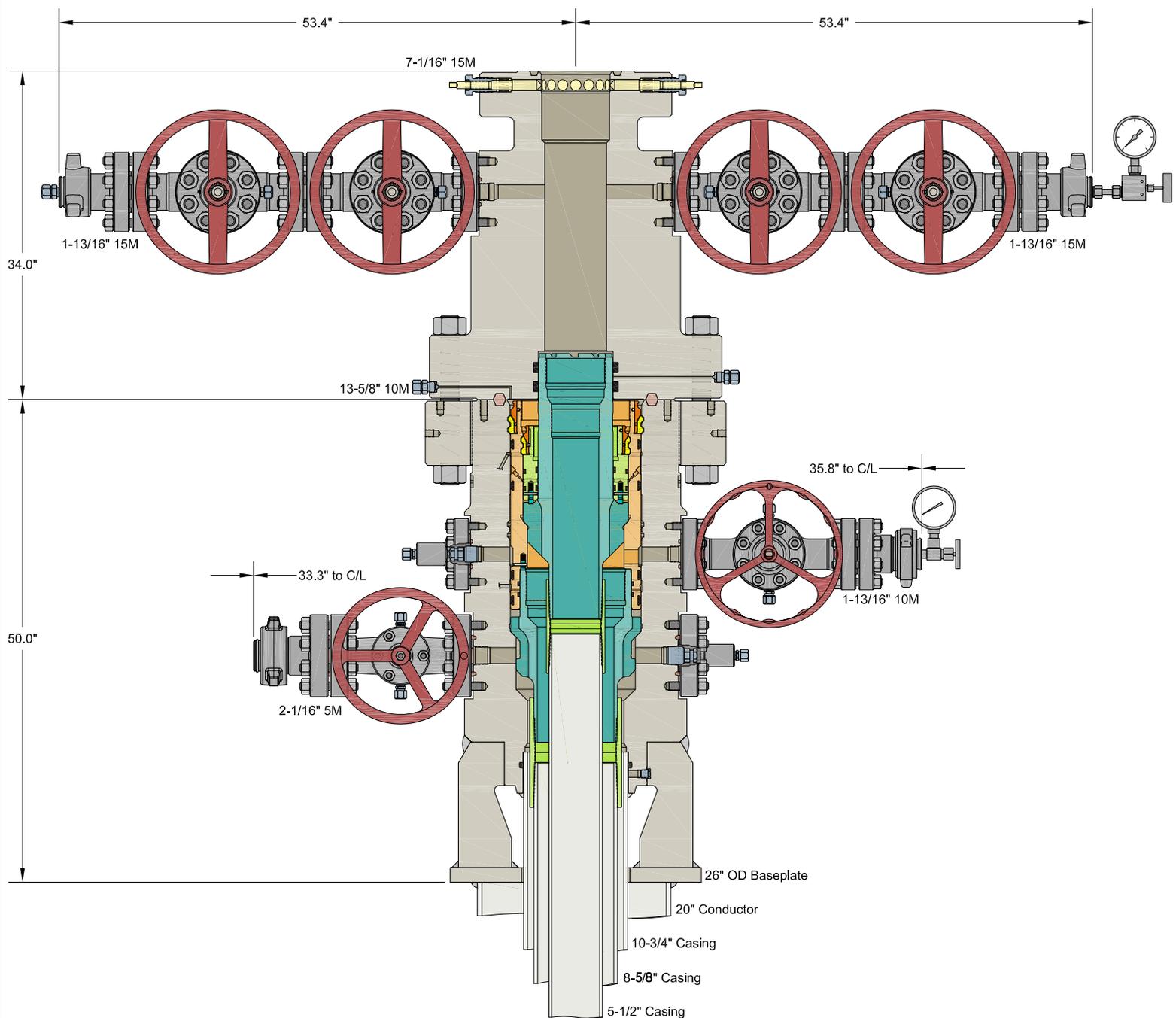
\*\*If above API connections do not suit your needs, VAM® premium connections are available up to 100% of pipe body ratings.

ALL INFORMATION IS PROVIDED BY VALLOUREC OR ITS AFFILIATES AT USER'S SOLE RISK, WITHOUT LIABILITY FOR LOSS, DAMAGE OR INJURY RESULTING FROM THE USE THEREOF; AND ON AN "AS IS" BASIS WITHOUT WARRANTY OR REPRESENTATION OF ANY KIND, WHETHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR PURPOSE, ACCURACY OR COMPLETENESS. THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND IS BASED ON ESTIMATES THAT HAVE NOT BEEN VERIFIED OR TESTED. IN NO EVENT SHALL VALLOUREC OR ITS AFFILIATES BE RESPONSIBLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL LOSS OR DAMAGE (INCLUDING WITHOUT LIMITATION, LOSS OF USE, LOSS OF BARGAIN, LOSS OF REVENUE, PROFIT OR ANTICIPATED PROFIT) HOWEVER CAUSED OR ARISING, AND WHETHER SUCH LOSSES OR DAMAGES WERE FORESEEABLE OR VALLOUREC OR ITS AFFILIATES WERE ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.



### Calm Breeze 2 Fed Com Package

<b>Wells in package:</b>	<b>Tgt TVD</b>
Calm Breeze 2 Fed Com #101H	9,405
Calm Breeze 2 Fed Com #102H	9,405
Calm Breeze 2 Fed Com #103H	9,405
Calm Breeze 2 Fed Com #201H	9,870
Calm Breeze 2 Fed Com #202H	9,870
Calm Breeze 2 Fed Com #301H	10,175
Calm Breeze 2 Fed Com #302H	10,175
Calm Breeze 2 Fed Com #303H	10,175
Calm Breeze 2 Fed Com #401H	10,530
Calm Breeze 2 Fed Com #402H	10,530
Calm Breeze 2 Fed Com #501H	11,055
Calm Breeze 2 Fed Com #502H	11,055
Calm Breeze 2 Fed Com #503H	11,055
Calm Breeze 2 Fed Com #504H	11,055



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.

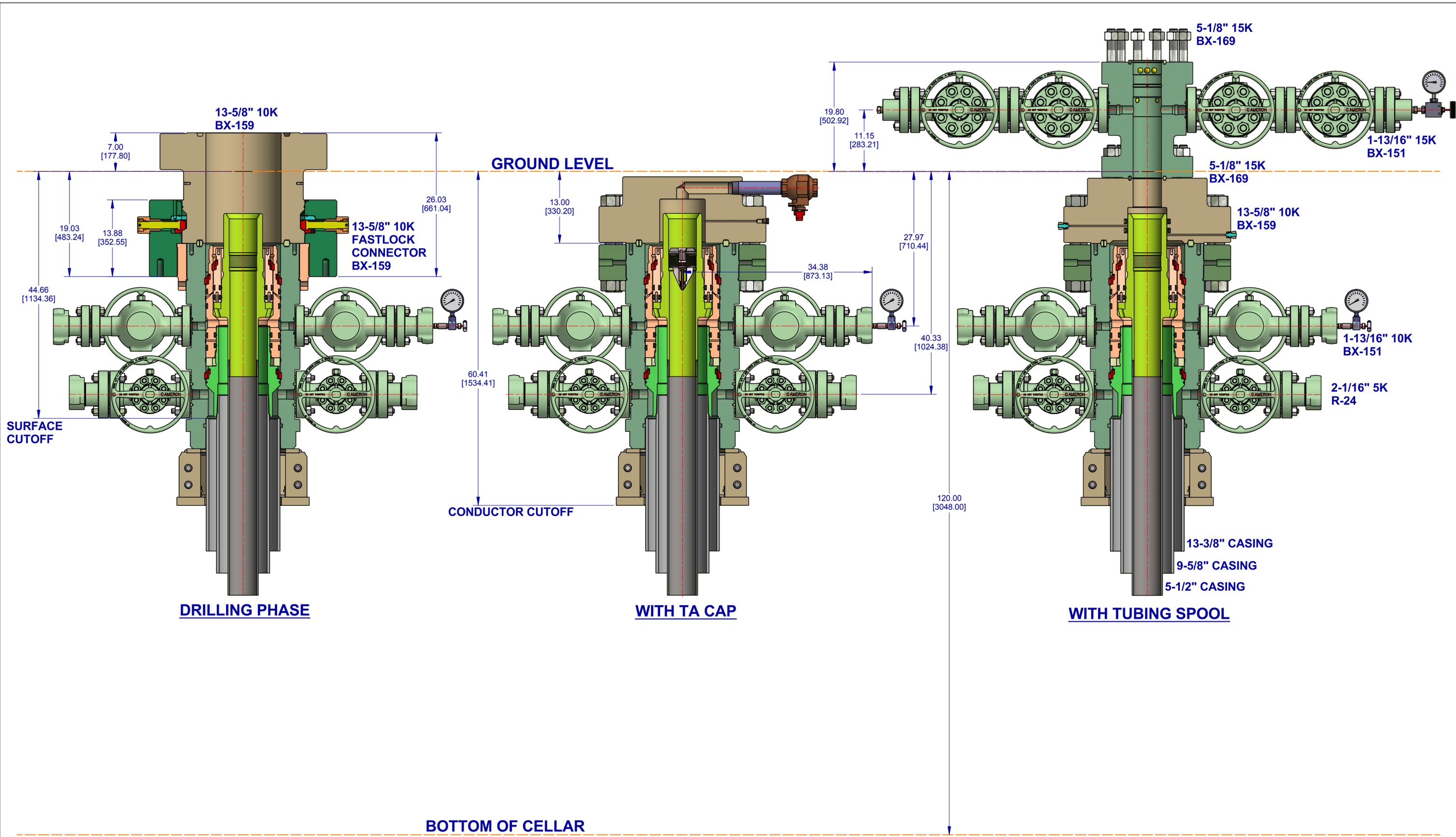
ALL DIMENSIONS APPROXIMATE

# 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

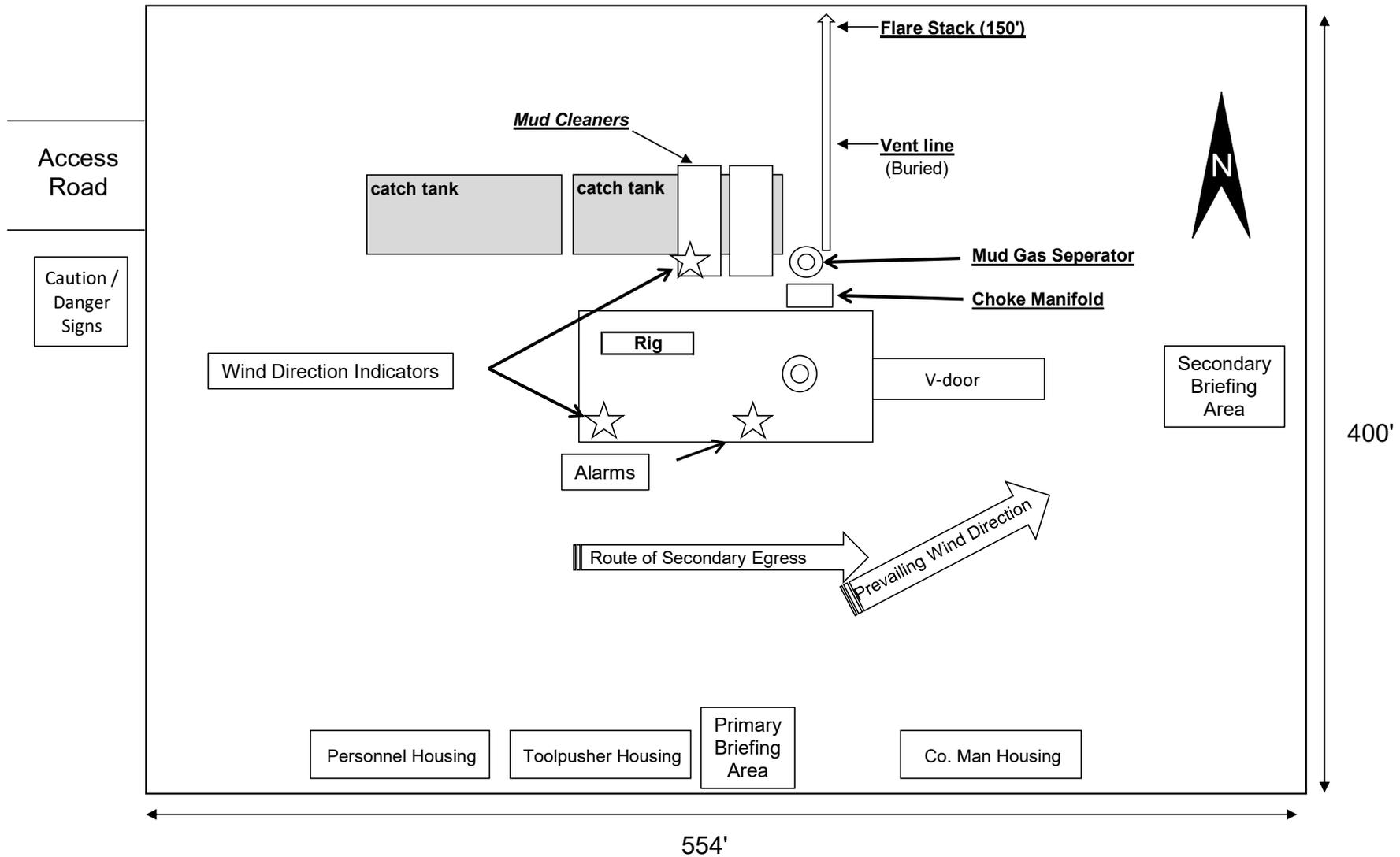
DRAWN	DLE	14APR21
APPRV		
DRAWING NO.	SDT-3141	



<p>THIRD ANGLE</p>		<p>DESIGNED IN INCHES</p> <p>DIMENSIONAL UNITS</p> <p>INCHES [MILLIMETERS]</p>	<p>MACHINING TOLERANCES UNLESS OTHERWISE SPECIFIED</p> <p>X [0] ± = [ ]</p> <p>XX [0.X] ± = [ ]</p> <p>XXX [0.XX] ± = [ ]</p>	<p>ANGLES</p> <p>± °</p>	<p>SURFACE TREATMENT</p> <p>DO NOT SCALE</p> <p>DRAWN BY: KEN REED DATE: 6 Nov 18</p> <p>CHECKED BY: PA DATE: 6 Nov 18</p> <p>APPROVED BY: APPROVER NAME DATE: 6 Nov 18</p>	<p>CONFIDENTIAL</p> <p><b>CAMERON</b> A Schlumberger Company</p> <p>SURFACE SYSTEMS</p> <p>EOG RESOURCES, INC 13-5/8" 10K MN-DS WELLHEAD 13-3/8" X 9-5/8" X 5-1/2"</p>	<p>ESTIMATED WEIGHT: 8147.2 LBS [3695.5 KG] INITIAL USE BM: EWR:650353762</p> <p>SHEET 1 of 1</p> <p>REV: 01</p> <p>INVENTOR: D</p>
--------------------	--	--	---	--------------------------	---	--	---

Exhibit 4  
EOG Resources  
Calm Breeze 2 Fed Com #301H

Well Site Diagram





®

**American  
Petroleum  
Institute**



2018-151

# Certificate of Authority to use the Official API Monogram

**License Number: 7K-0519**

**ORIGINAL**

The American Petroleum Institute hereby grants to

**GATES ENGINEERING AND SERVICES**

**7603 Prairie Oak Drive, Suite 190**

**Houston, TX**

**United States**

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-7K** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **7K-0519**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: High Pressure Mud and Cement Hoses at FSL 0, at FSL 1, at FSL 2

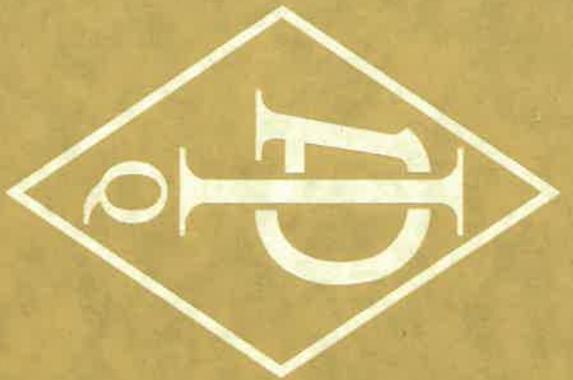
QMS Exclusions: No Exclusions Identified as Applicable

**Effective Date: OCTOBER 24, 2024**

**Expiration Date: DECEMBER 18, 2027**

Senior Vice President of Global Industry Services

To verify the authenticity of this license, go to [www.api.org/compositelist](http://www.api.org/compositelist).



**American Petroleum Institute**



2018-151

**Certificate of Authority to use the Official API Monogram**  
**License Number: 16C-0485**

**ORIGINAL**

The American Petroleum Institute hereby grants to

**GATES ENGINEERING AND SERVICES**  
**7603 Prairie Oak Drive, Suite 190**  
**Houston, TX**  
**United States**

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-16C** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **16C-0485**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Flexible Choke and Kill Lines atFSL 0, FSL 1, FSL 2, FSL 3

QMS Exclusions: No Exclusions Identified as Applicable

**Effective Date: OCTOBER 24, 2024**

**Expiration Date: DECEMBER 18, 2027**

To verify the authenticity of this license, go to [www.api.org/compositelist](http://www.api.org/compositelist).



Senior Vice President of Global Industry Services



REGISTRATION NO. Q1-3650

# Certificate of Registration

The American Petroleum Institute certifies that the quality management system<sup>®</sup> of

**GATES ENGINEERING AND SERVICES**  
7603 Prairie Oak Drive, Suite 190  
Houston, TX  
United States

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

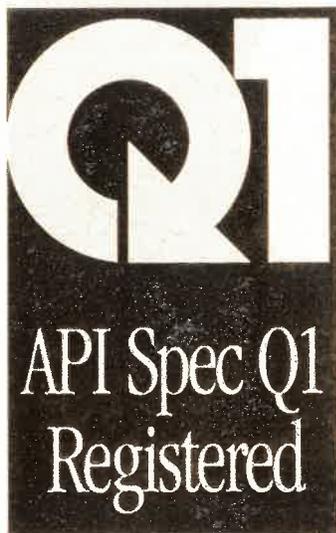
## API Spec Q1, 9th Edition

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**



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

Senior Vice President of Global Industry Services

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](http://www.api.org/compositelist).**



GATES ENGINEERING & SERVICES NORTH AMERICA  
7603 Pralrle Oak Dr. Suite 190  
Houston, TX. 77086

PHONE: +1 (281) 602-4100  
FAX: +1 (281) 602-4147  
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, 3<sup>rd</sup> 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		<b>CERTIFICATE OF CONFORMITY</b>	
Doc. Ref.	Form-056		
Revision	4		

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

*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 ASSEMBLY WORKS ORDERS NUMBERS:  139051 139052 139053 139054 139321	139062	5
		139063	
		139064	
	SAFETY/LIFTER CLAMP 195MM 1.7T PART NO: HCC108	139065	
	SAFETY CHAIN 10MM C/S PCP 6FT PART NO: CHC001	139244	
		MYB59483	10
		ACU59481	10


J. Winkler
06 DEC 2022  
 Accepted by..... for and on behalf of Gates Engineering & Services UK Ltd

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

<input type="checkbox"/> BURST	<input checked="" type="checkbox"/> HYDROSTATIC	<input type="checkbox"/> CYCLIC	Certificate No:  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
 <i>J. W. W. W.</i> 06 DEC 2022	

1/1

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

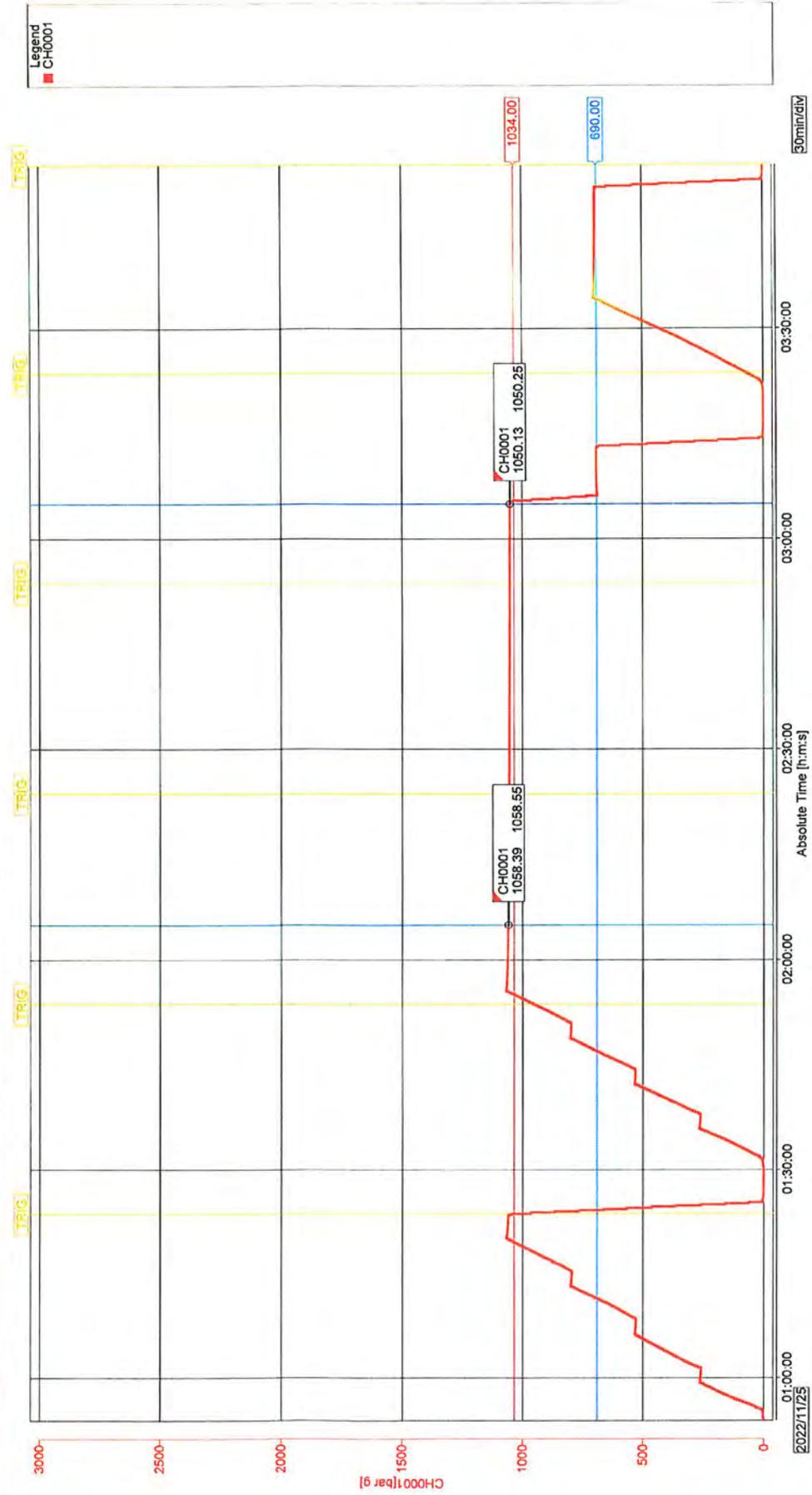
Start Time : 2022/11/25 00:53:50.000 (UTC+08:00)  
Stop Time : 2022/11/25 03:53:20.000 (UTC+08:00)

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



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	
CH0001[bar g]	1050.12	1058.55	8.43	1053.28	1053.28	1053.28



## 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

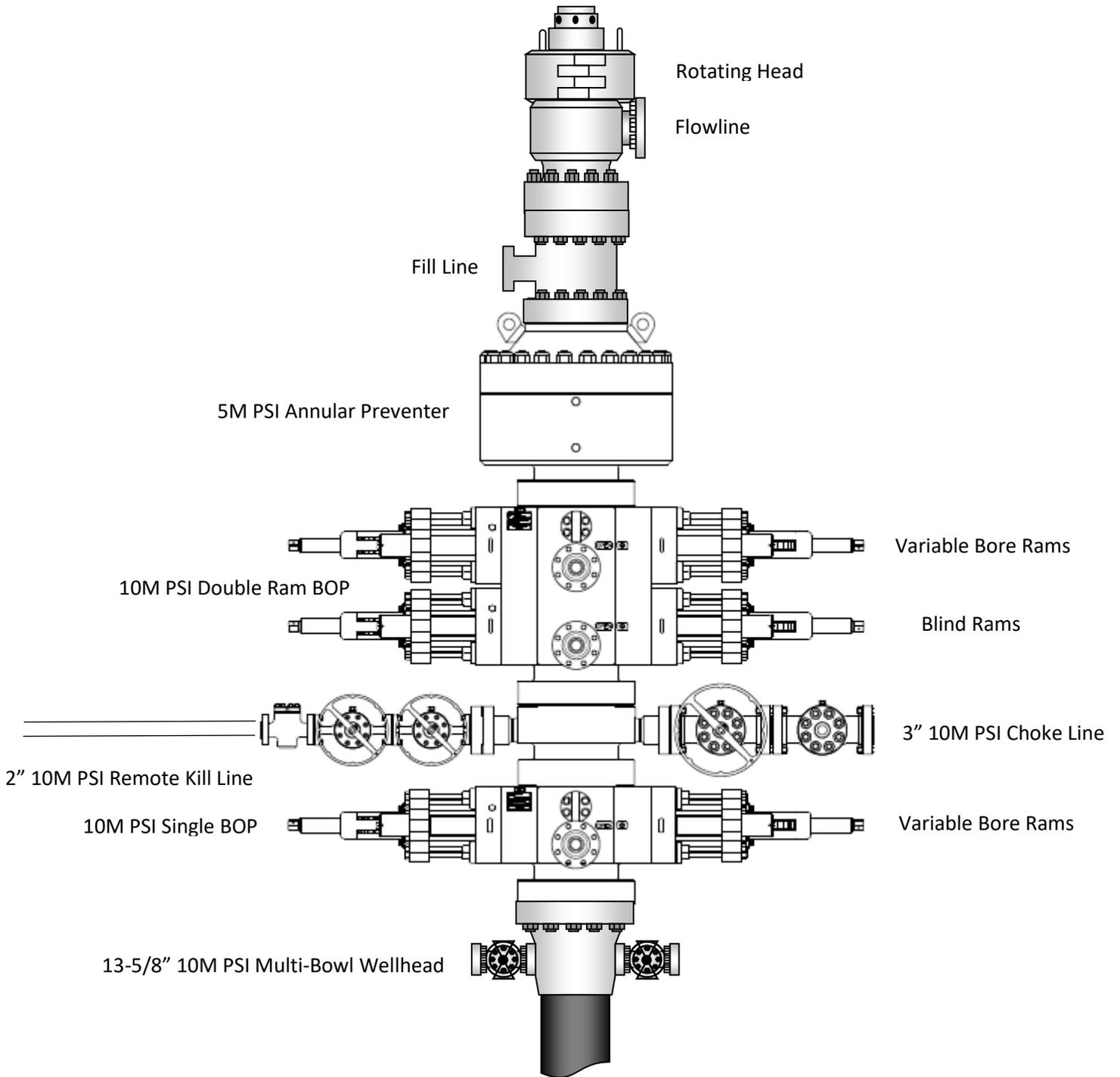
The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

<b>12-1/4" Intermediate Hole Section</b>					
<b>10M psi requirement</b>					
<b>Component</b>	<b>OD</b>	<b>Primary Preventer</b>	<b>RWP</b>	<b>Alternate Preventer(s)</b>	<b>RWP</b>
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	-	-
1 <sup>st</sup> Intermediate casing	9.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M	-	-

<b>8-3/4" Production Hole Section</b>					
<b>10M psi requirement</b>					
<b>Component</b>	<b>OD</b>	<b>Primary Preventer</b>	<b>RWP</b>	<b>Alternate Preventer(s)</b>	<b>RWP</b>
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	-	-
2 <sup>nd</sup> 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



## Offline Intermediate Cementing Procedure

2/24/2022

**Cement Program**

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

**Summarized Operational Procedure for Intermediate Casing**

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment back pressure valves.
  - a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
2. Land production casing on mandrel hanger through BOP.
  - a. If casing is unable to be landed with a mandrel hanger, then the **casing will be cemented online**.
3. Break circulation and confirm no restrictions.
  - a. Ensure no blockage of float equipment and appropriate annular returns.
  - b. Perform flow check to confirm well is static.
4. Set pack-off
  - a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
  - b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
5. After confirmation of both annular barriers and the two casing barriers, install TA plug and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.
  - a. Minimum 4 hrs notice.
6. With the well secured and BLM notified, nipple down BOP and secure on hydraulic carrier or cradle.
  - a. **Note, if any of the barriers fail to test, the BOP stack will not be nipped 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 nipped back up for any further remediation.



Offline Intermediate Cementing Procedure

2/24/2022

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



Offline Intermediate Cementing Procedure

2/24/2022

## 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 nipped 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 Intermediate Cementing Procedure

2/24/2022

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 Intermediate Cementing Procedure

2/24/2022

Figure 1: Cameron TA Plug and Offline Adapter Schematic

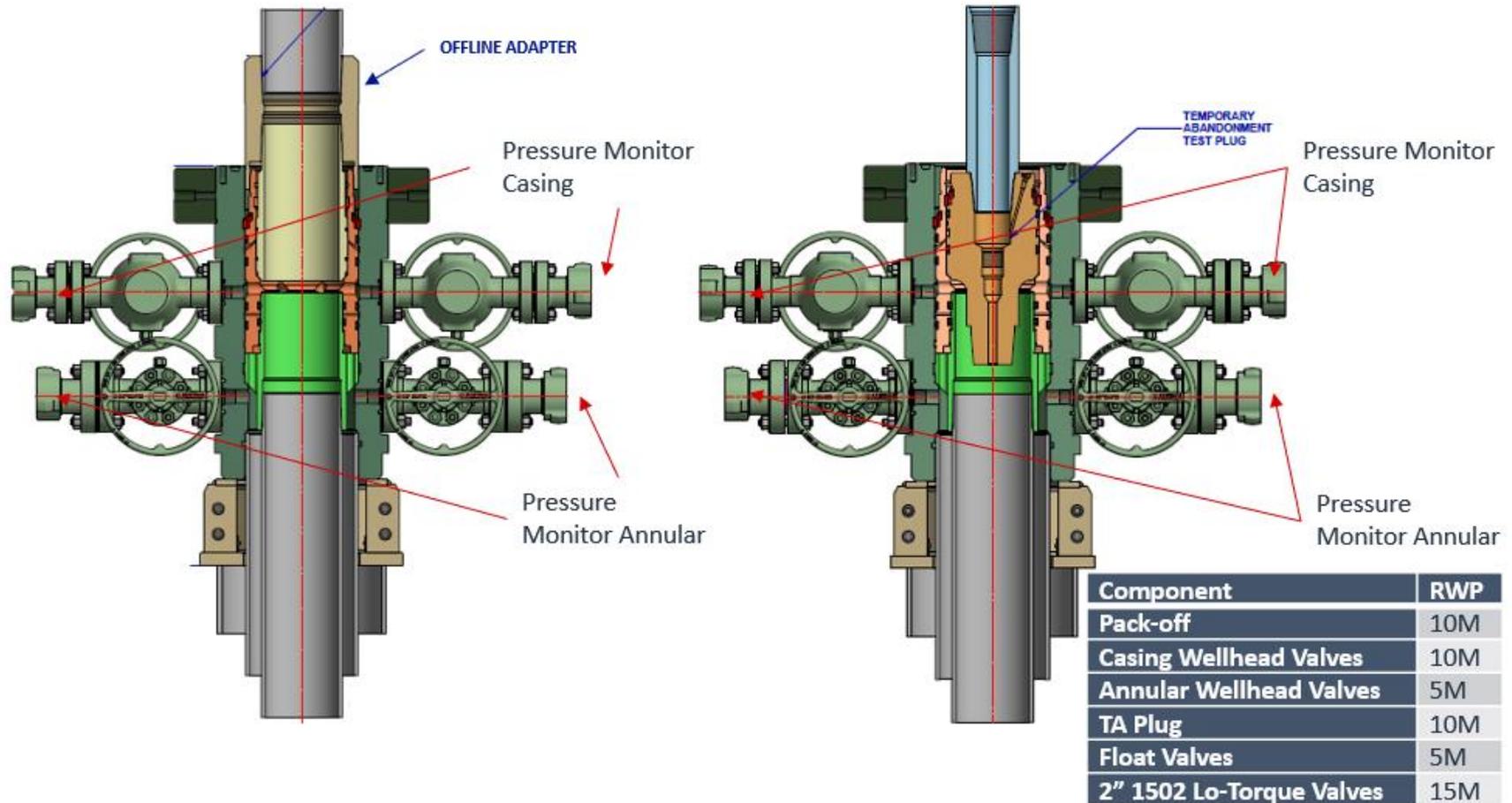
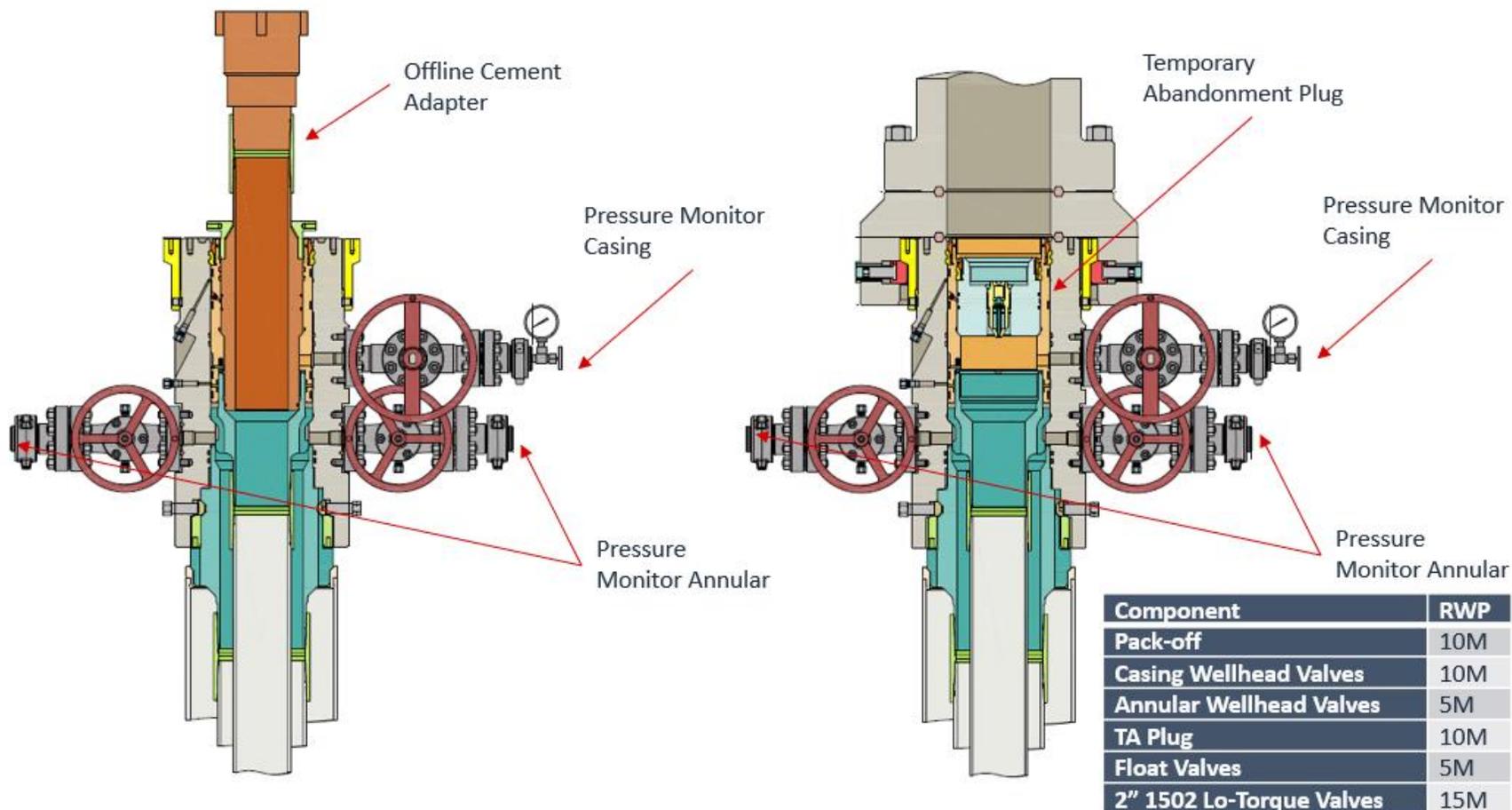




Figure 2: Cactus TA Plug and Offline Adapter Schematic

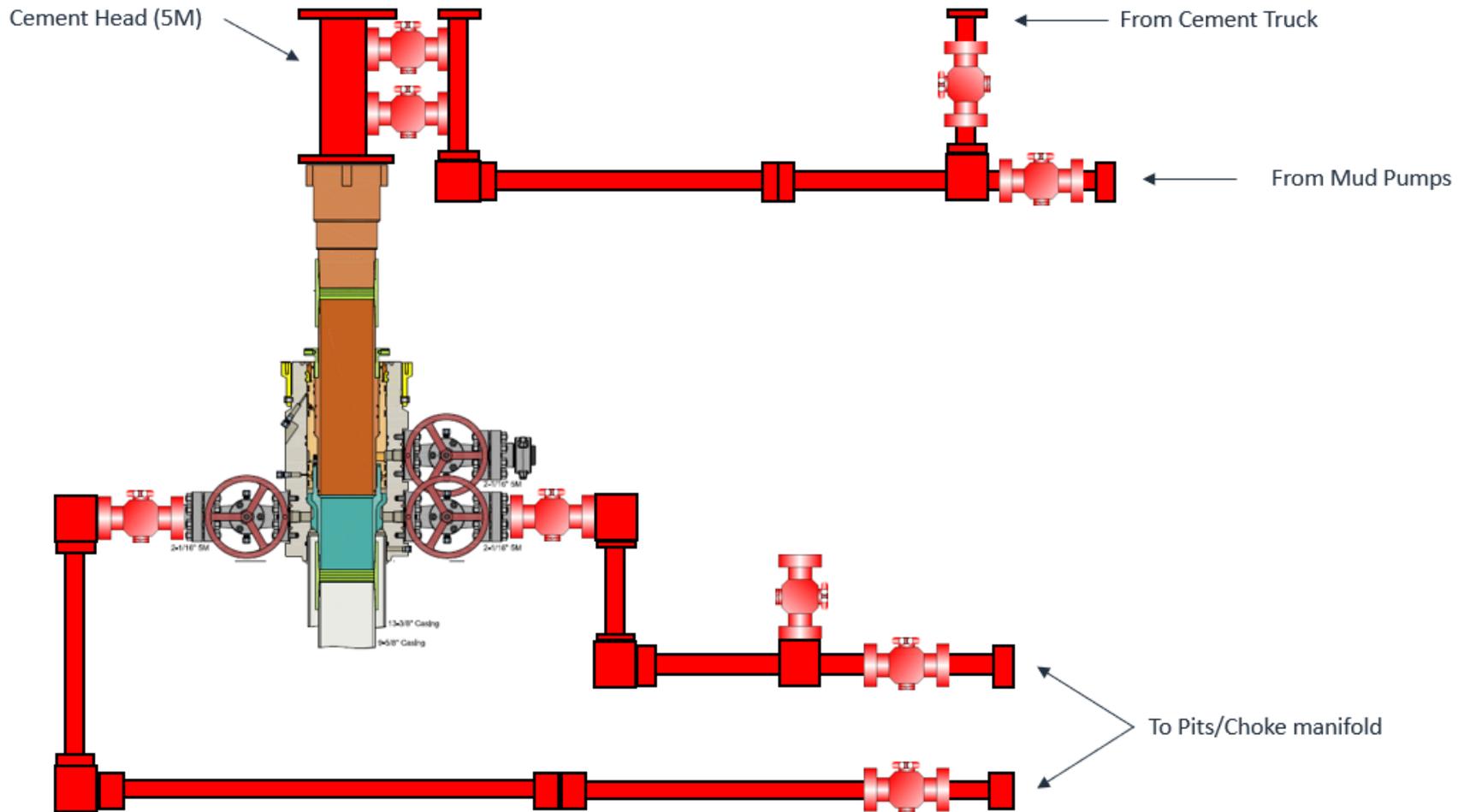




Offline Intermediate Cementing Procedure

2/24/2022

Figure 3: Back Yard Rig Up



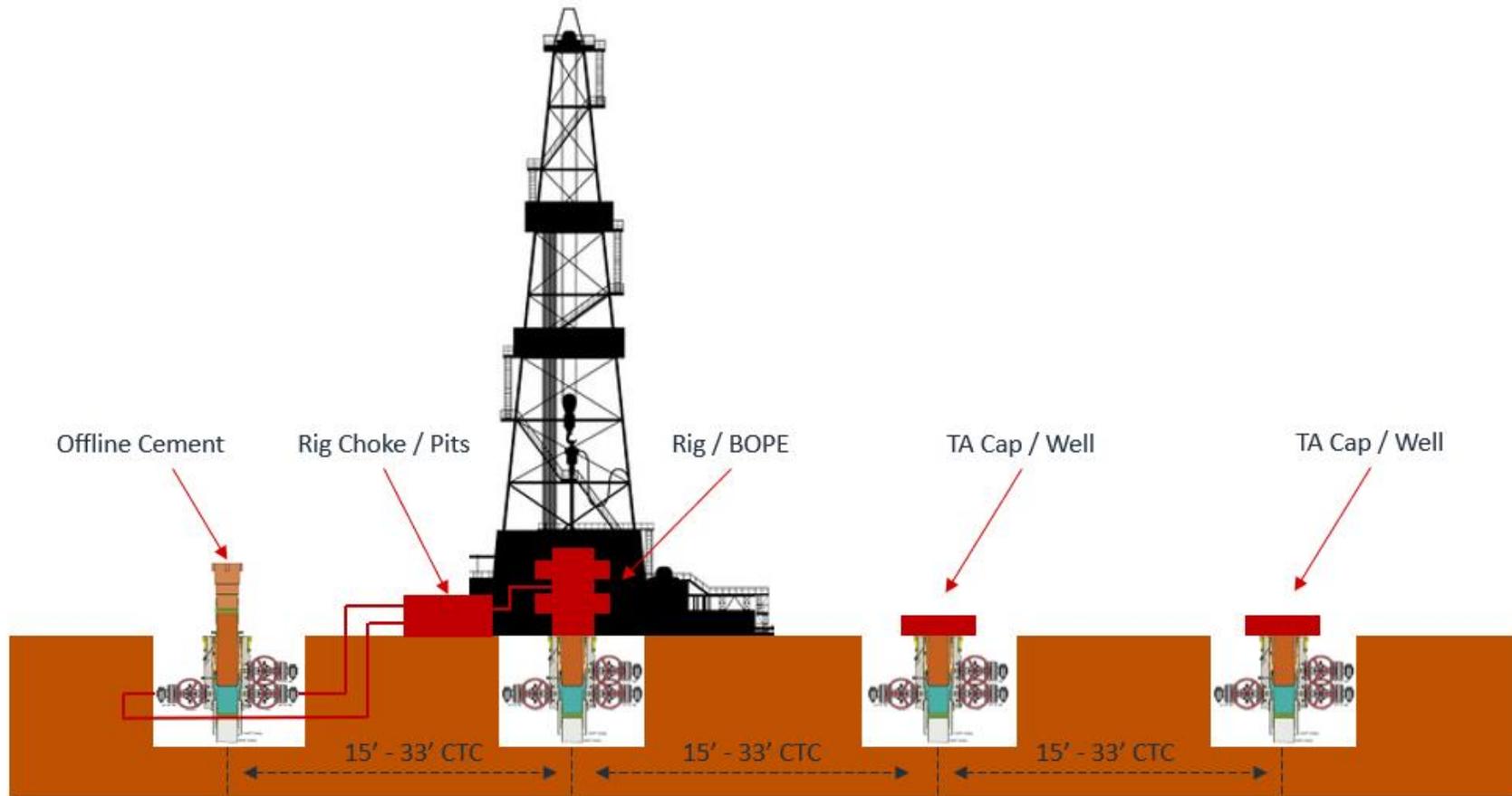
\*\*\* All Lines 10M rated working pressure



Offline Intermediate Cementing Procedure

2/24/2022

Figure 4: Rig Placement Diagram





# Salt Section Annular Clearance Variance Request

---

---

Daniel Moose

# Current Design (Salt Strings)

## 0.422" Annular clearance requirement

- Casing collars shall have a minimum clearance of 0.422 inches on all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.

- 12.25" Hole x 9.625" 40# J55/HCK55 LTC Casing
  - 1.3125" Clearance to casing OD
  - 0.8125" Clearance to coupling OD
- 9.875" Hole x 8.75" 38.5# P110 Sprint-SF Casing
  - 0.5625" Clearance to casing OD
  - 0.433" Clearance to coupling OD

# Annular Clearance Variance Request

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

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

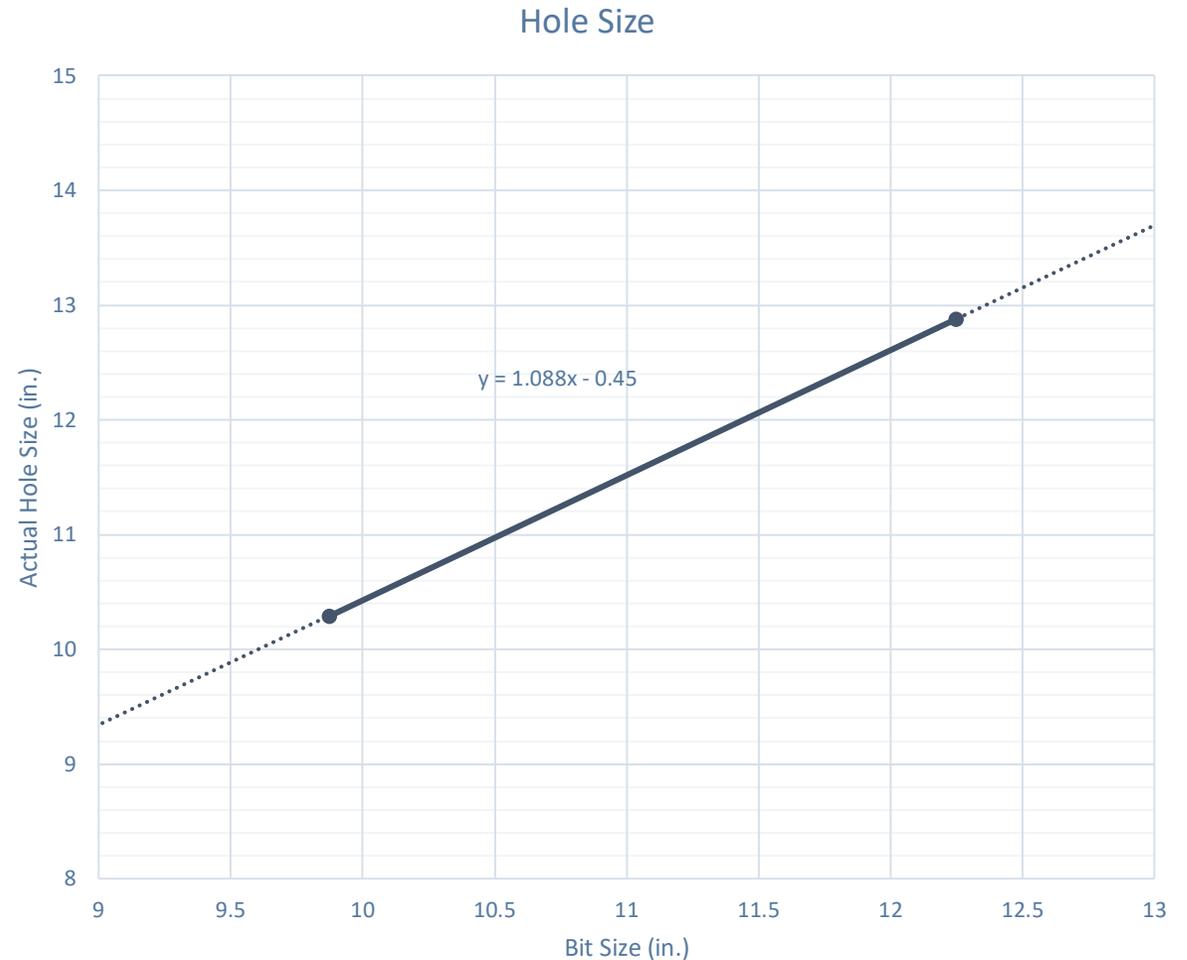
# Volumetric Hole Size Calculation

## Hole Size Calculations Off Cement Volumes

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

## Average Hole Size

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

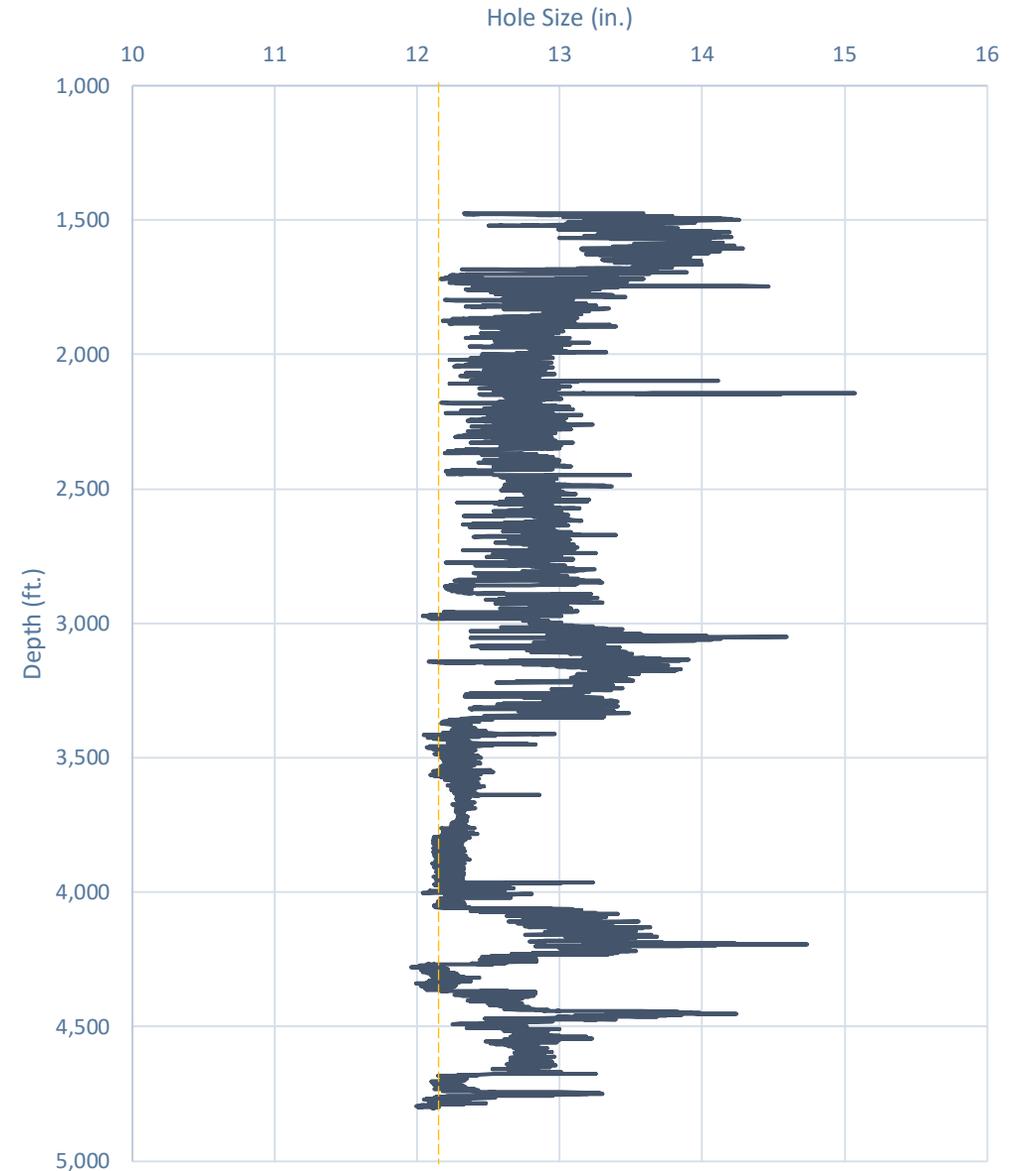


# Caliper Hole Size (12.25")

## 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

Modelo 10 Fed Com #501H

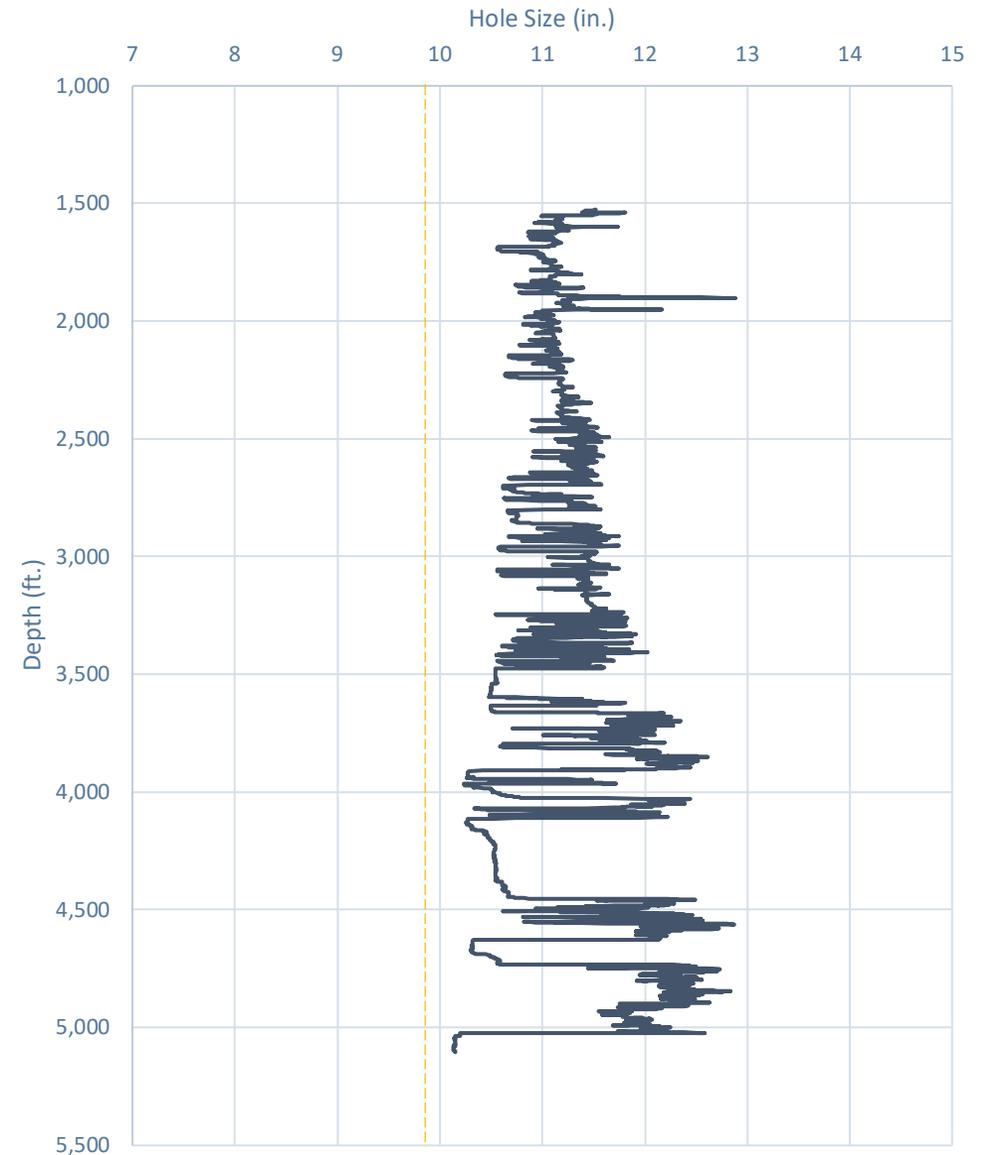


# Caliper Hole Size (9.875")

## Average Hole Size

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

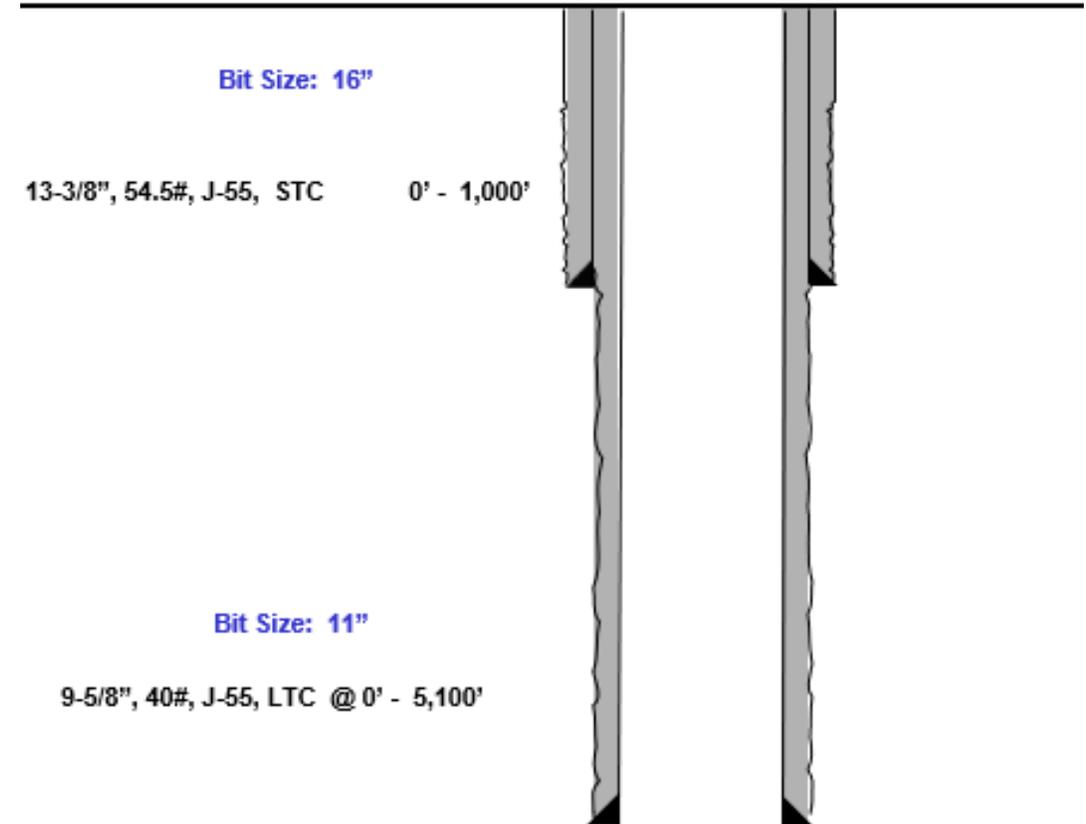
Whirling Wind 11 Fed Com #744H



# Design A

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

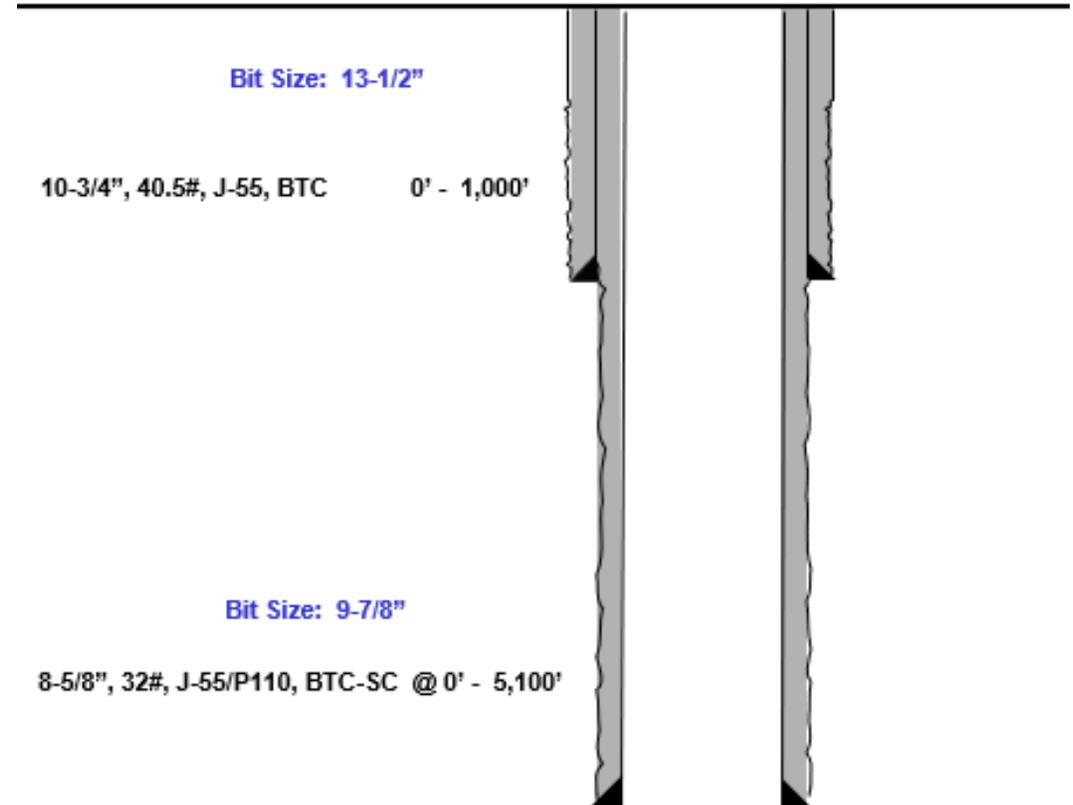
- 11" Bit + 0.52" Average hole enlargement = 11.52" Hole Size
  - 0.9475" Clearance to casing OD
 
$$= \frac{11.52 - 9.625}{2}$$
  - 0.4475" Clearance to coupling OD
 
$$= \frac{11.52 - 10.625}{2}$$
- Previous Shoe – 13.375" 54.5# J55 STC
  - 0.995" Clearance to coupling OD (~1,200' overlap)
 
$$= \frac{12.615 - 10.625}{2}$$



# Design B

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

- 9.875" Bit + 0.42" Average hole enlargement = 10.295" Hole Size
  - 0.835" Clearance to casing OD
 
$$= \frac{10.295 - 8.625}{2}$$
  - 0.585" Clearance to coupling OD
 
$$= \frac{10.295 - 9.125}{2}$$
- Previous Shoe – 10.75" 40.5# J55 STC
  - 0.4625" Clearance to coupling OD (~1,200' overlap)
 
$$= \frac{10.05 - 9.125}{2}$$





# Index





# 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



### 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 <sup>2</sup>
*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.

ALL INFORMATION IS PROVIDED BY VALLOUREC OR ITS AFFILIATES AT USER'S SOLE RISK, WITHOUT LIABILITY FOR LOSS, DAMAGE OR INJURY RESULTING FROM THE USE THEREOF, AND ON AN "AS IS" BASIS WITHOUT WARRANTY OR REPRESENTATION OF ANY KIND, WHETHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR PURPOSE, ACCURACY OR COMPLETENESS. THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND IS BASED ON ESTIMATES THAT HAVE NOT BEEN VERIFIED OR TESTED. IN NO EVENT SHALL VALLOUREC OR ITS AFFILIATES BE RESPONSIBLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL LOSS OR DAMAGE (INCLUDING WITHOUT LIMITATION, LOSS OF USE, LOSS OF BARGAIN, LOSS OF REVENUE, PROFIT OR ANTICIPATED PROFIT) HOWEVER CAUSED OR ARISING, AND WHETHER SUCH LOSSES OR DAMAGES WERE FORESEEABLE OR VALLOUREC OR ITS AFFILIATES WERE ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Rev 3, 7/30/2021

10/21/2022 15:24



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

# SUPO Data Report

12/31/2025

APD ID: 10400091395

Submission Date: 03/29/2023

Highlighted data reflects the most recent changes

Operator Name: EOG RESOURCES INCORPORATED

[Show Final Text](#)

Well Name: CALM BREEZE 2 FED COM

Well Number: 301H

Well Type: OIL WELL

Well Work Type: Drill

## Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

LO\_CALM\_BREEZE\_2\_FC\_301H\_VIC\_20230329132158.pdf

Existing Road Purpose: ACCESS

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:

SK\_CALM\_BREEZE\_2\_FED\_COM\_INFRA\_20230329132250.pdf

EP\_CALMBREEZE2FEDCOM\_ROADS\_S\_20230329132303.pdf

New road type: RESOURCE

Length: 1293 Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 6

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.

New road access plan or profile prepared? N

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**New road access plan**

**Access road engineering design?** N

**Access road engineering design**

**Turnout?** N

**Access surfacing type:** OTHER

**Access topsoil source:** OFFSITE

**Access surfacing type description:** 6" compacted caliche

**Access onsite topsoil source depth:**

**Offsite topsoil source description:** 6

**Onsite topsoil removal process:**

**Access other construction information:**

**Access miscellaneous information:**

**Number of access turnouts:**

**Access turnout map:**

**Drainage Control**

**New road drainage crossing:** OTHER

**Other Description:** crown and ditched

**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:**

LO\_CALM\_BREEZE\_2\_FC\_301H\_MILE\_RADIUS\_20230329132324.pdf

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

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** EXISTING PRODUCTION FACILITY: SECTION 2, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M

**Production Facilities map:**

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

SK\_CALM\_BREEZE\_2\_FED\_COM\_INFRA\_20230329132339.pdf

AL\_CALM\_BREEZE\_2\_FED\_COM\_504\_503\_502\_501\_FL\_IA\_LIFT\_FO\_20230329132350.pdf

AL\_CALM\_BREEZE\_2\_FED\_COM\_103\_402\_102\_101\_FL\_IA\_LIFT\_FO\_20230329132350.pdf

AL\_CALM\_BREEZE\_2\_FED\_COM\_303\_202\_302\_201\_301\_FL\_IA\_LIFT\_FO\_20230329132350.pdf

AL\_CALM\_BREEZE\_2\_FED\_COM\_752\_741\_751\_401\_FL\_IA\_LIFT\_FO\_20230329132350.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 water location will be drilled using a combination of water management program. (i) Water will be obtained from commercial water to location by trucks using existing and proposed roads attached. (ii) Water may as be supplied from frac ponds temporary above ground surface lines a shown on the map 4-inch lay-flat lines and up to six 12-inch lay-flat lines for freshwater. Freshwater is defined as containing less than 500 mg/L Solids (TDS), exhibiting no petroleum sheen when stirred by mechanical processes that expose it to heavy metals or other contaminants to utilize up to six 4-inch lay-flat and up to six 12-inch lay-flat transporting treated produced water being defined as that which is returned to a reusable form and may include mechanical and chemical treatment. Sources: EOG Resources, Inc., Resolute Frac Pond located in Section 33-E, Lea County, New Mexico. Treated Produced Water Frac Pond, EOG Resources, Inc., Gem Reuse Frac Pond located in Section 33-E, Lea County, New Mexico. Temporary surface lines will be used for water source location or multiple water source locations in the area of the well action and be temporarily laid above ground with minimum 4-inch lay-flat line(s) shall be laid no more than 10 feet from the edge of the road edge of bar/borrow ditch, road surface or two-track road surface (existing landscape). A push off arm or other mechanism will be used to remain within the existing disturbance. Map or maps showing temporary surface lines will be provided with the APD and will be included in the Environmental Assessment. Electronic map file (shape file or KMZ file) will be included in the Environmental Assessment. Attached Water Map depicts temporary above ground surface lines and maybe installed within 10 days. Temporary above ground surface lines shall support completions operations.

**Source latitude:**

**Source longitude:**

**Source datum:**

**City:**

**Water source permit type:** WATER RIGHT

**Water source transport method:** PIPELINE  
TRUCKING

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**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**

Water\_Map\_20230329132420.pdf

**Water source comments:** see SUPO

**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:**

**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 will be used within the proposed well site dimensions 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

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

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\_20230329132410.docx

**Section 7 - Methods for Handling**

**Waste type:** DRILLING

**Waste content description:** Drill 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. Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly. Human waste and grey water will be properly contained of and disposed of properly. 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.

**Amount of waste:** 0 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** STEEL TANKS

**Safe containmant attachment:**

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

**Disposal type description:**

**Disposal location description:** TRUCKED TO NMOCD APPROVED DISPOSAL FACILITY

**Reserve Pit**

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?** NO

**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** Closed Loop System. Drill cuttings will be disposed of into steel tanks and taken to an NMOCD approved disposal facility.

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**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:**

LO\_CALM\_BREEZE\_2\_FC\_301H\_SITE\_20230329132459.pdf

LO\_CALM\_BREEZE\_2\_FC\_301H\_WELLSITE\_20230329132459.pdf

Calm\_Breeze\_2\_Fed\_Com\_301H\_Rig\_Layout\_20230329132508.pdf

**Comments:** Exhibit 2A-Wellsite, Exhibit 2B-Padsite, Exhibit 4-Rig Layout

### Section 10 - Plans for Surface

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:** CALM BREEZE 2 FED COM

**Multiple Well Pad Number:** 201H, 202H, 301H, 302H, 303H

**Recontouring**

LO\_CALM\_BREEZE\_2\_FC\_301H\_RECLAMATION\_20230329132517.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: CALM BREEZE 2 FED COM

Well Number: 301H

<b>Well pad proposed disturbance (acres): 0</b>	<b>Well pad interim reclamation (acres): 0</b>	<b>Well pad long term disturbance (acres): 0</b>
<b>Road proposed disturbance (acres): 0</b>	<b>Road interim reclamation (acres): 0</b>	<b>Road long term disturbance (acres): 0</b>
<b>Powerline proposed disturbance (acres): 0</b>	<b>Powerline interim reclamation (acres): 0</b>	<b>Powerline long term disturbance (acres): 0</b>
<b>Pipeline proposed disturbance (acres): 0</b>	<b>Pipeline interim reclamation (acres): 0</b>	<b>Pipeline long term disturbance (acres): 0</b>
<b>Other proposed disturbance (acres): 0</b>	<b>Other interim reclamation (acres): 0</b>	<b>Other long term disturbance (acres): 0</b>
<b>Total proposed disturbance: 0</b>	<b>Total interim reclamation: 0</b>	<b>Total long term disturbance: 0</b>

**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:** CALM BREEZE 2 FED COM

**Well Number:** 301H

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?** N

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** N

**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	
Seed Type	Pounds/Acre

**Total 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:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**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:** STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** NEW MEXICO

**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:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**SUPO Additional Information:** An onsite meeting was conducted on 4/13/21 and field on 5/11/2021 See attached SUPO Plan. Flowlines, Gas Lift, Instrument Air Line, and Fiber Optic: Calm Breeze 2 Fed Com #103H, #401H, #101H, #102H 1,159.58 or 70.28 rods Calm Breeze 2 Fed Com #303H, #202H, #302H, #201H, #301H 594.23 or 36.01 rods Calm Breeze 2 Fed Com #504H, #503H, #502H, #5010H 1,024.57 or 62.10 rods Calm Breeze 2 Fed Com #752H, #741H, #751H, #401H 1,309.58 or 79.37 rods Produced Water Gathering Sale Line: Existing Gas Gathering Sale Line: Existing Localized Gas Lift: Existing Crude Oil Gathering Sale Line: Existing Overhead Electric Line: Existing Central Tank Battery 400 ft. x 600 ft: Existing **\*\*\*(1) Flowline per Well, (1) Gas Lift Line per Well stack/group, (1) Fiber Optic Line per Well stack/group, (1) Instrument Air Line per Well stack/group\*\*\***

**Use a previously conducted onsite?** N

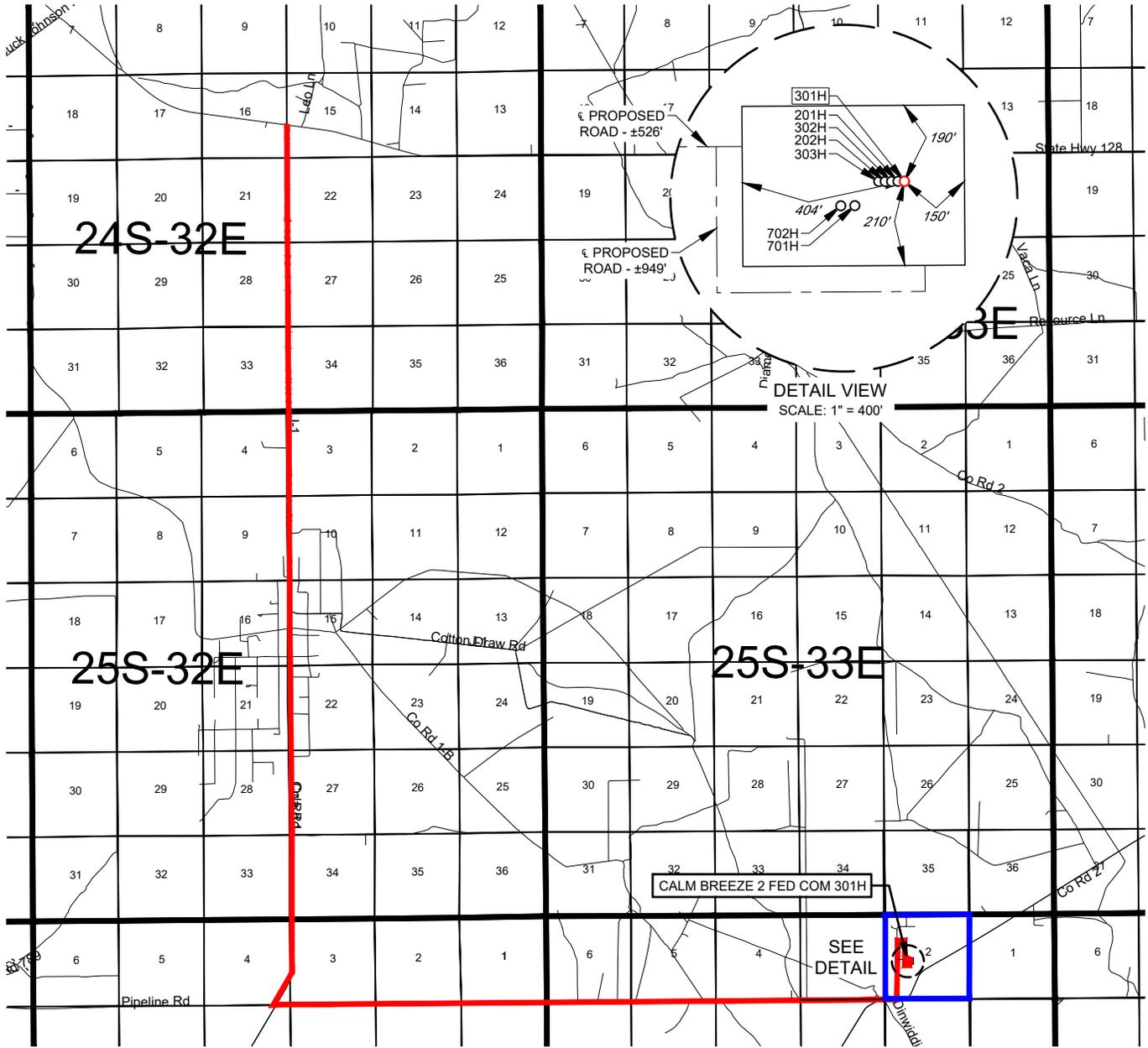
**Previous Onsite information:**

[Other SUPO](#)

SUPO\_CALM\_BREEZE\_2\_FED\_COM\_301H\_20230329132548.pdf

LO\_CALM\_BREEZE\_2\_FC\_301H\_L\_E\_20230329132548.pdf

EXHIBIT 2  
VICINITY MAP



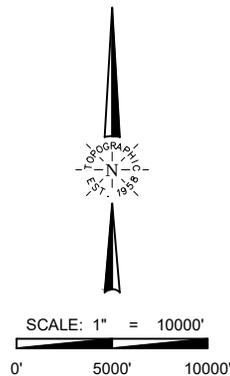
LEASE NAME & WELL NO.: CALM BREEZE 2 FED COM 301H

SECTION 2 TWP 26-S RGE 33-E SURVEY N.M.P.M.  
 COUNTY LEA STATE NM  
 DESCRIPTION 2392' FSL & 1671' FWL

**DISTANCE & DIRECTION**  
 FROM INT. OF NM-128. & J-1/ORLA RD.. GO SOUTH ON J-1/ORLA RD.  
 ±10.5 MILES, THENCE EAST (LEFT) ON PIPELINE RD. ±7.1 MILES, THENCE  
 EAST (LEFT) ON BATTLE AXE RD. ±0.2 MILES, THENCE NORTH (LEFT) ON  
 A LEASE RD. ±0.5 MILES, THENCE WEST (RIGHT) ON A PROPOSED RD.  
 ±949 FEET TO A POINT ±216 FEET SOUTHEAST OF THE LOCATION.

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.



**TOPOGRAPHIC**  
 LOYALTY INNOVATION LEGACY  
 1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
 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  
 WWW.TOPOGRAPHIC.COM

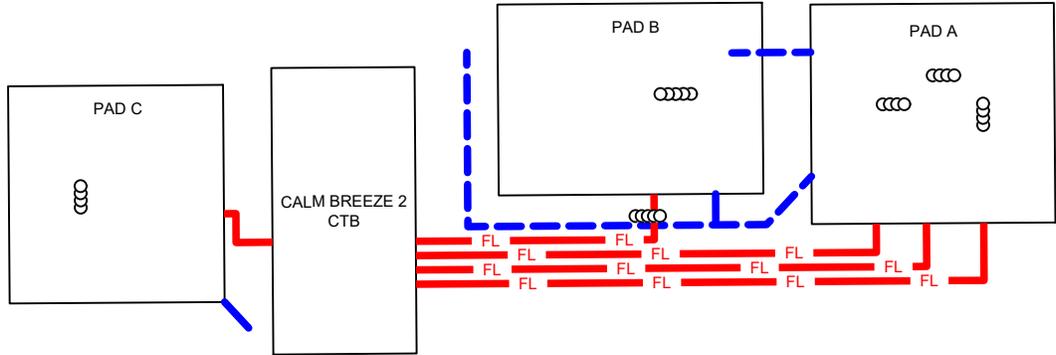
# EXHIBIT 5

SECTION 2, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

## CALM BREEZE 2 FED COM INFRASTRUCTURE MAP



SCALE: 1" = 400'  
0' 200' 400'



FND. BRASS CAP,  
U.S. G.L.O. SUR.  
1913



3 2  
10 11



SEE PAGE 2  
FOR PAD DETAILS

### LEGEND

- SECTION LINE
- PROPOSED SITE
- PROPOSED ROAD
- FL PROPOSED FLOW LINE
- MONUMENT FOUND

CALM BREEZE 2 FED COM INFRASTRUCTURE MAP	REVISION:	
	INT	DATE
DATE: 07/22/2021		
FILE: SK_CALM_BREEZE_2_FED_COM_INFRA		
DRAWN BY: A.V.F.		
SHEET: 1 OF 2		

# EXHIBIT 5

SECTION 2, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

## CALM BREEZE 2 FED COM INFRASTRUCTURE MAP

PAD A

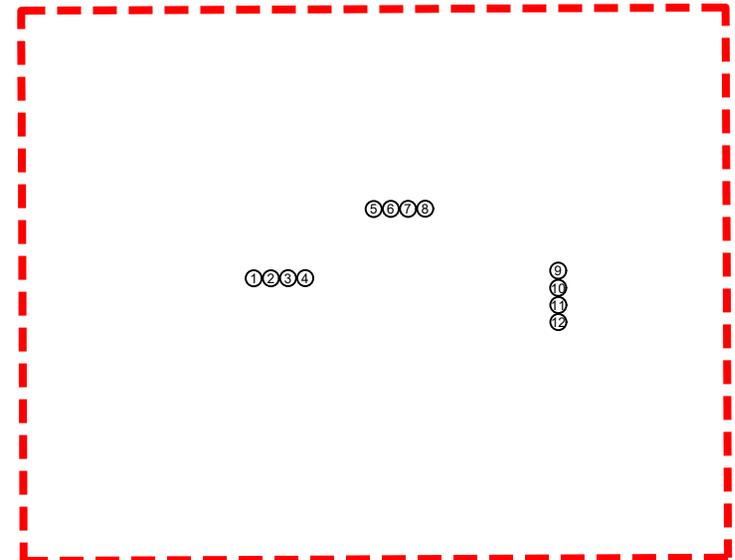
SLOT #	WELL NAME	WELL #
1	CALM BREEZE 2 FED COM	504H
2	CALM BREEZE 2 FED COM	503H
3	CALM BREEZE 2 FED COM	502H
4	CALM BREEZE 2 FED COM	501H
5	CALM BREEZE 2 FED COM	103H
6	CALM BREEZE 2 FED COM	402H
7	CALM BREEZE 2 FED COM	102H
8	CALM BREEZE 2 FED COM	101H
9	CALM BREEZE 2 FED COM	752H
10	CALM BREEZE 2 FED COM	741H
11	CALM BREEZE 2 FED COM	751H
12	CALM BREEZE 2 FED COM	401H

PAD B

SLOT #	WELL NAME	WELL #
1	CALM BREEZE 2 FED COM	----
2	CALM BREEZE 2 FED COM	----
3	CALM BREEZE 2 FED COM	----
4	CALM BREEZE 2 FED COM	----
5	CALM BREEZE 2 FED COM	303H
6	CALM BREEZE 2 FED COM	202H
7	CALM BREEZE 2 FED COM	302H
8	CALM BREEZE 2 FED COM	201H
9	CALM BREEZE 2 FED COM	301H
10	CALM BREEZE 2 FED COM	----
11	CALM BREEZE 2 FED COM	----
12	CALM BREEZE 2 FED COM	----

PAD C

SLOT #	WELL NAME	WELL #
1	CALM BREEZE 2 FED COM	----
2	CALM BREEZE 2 FED COM	----
3	CALM BREEZE 2 FED COM	----
4	WILD WEASEL 22 FED COM	----
5	CALM BREEZE 2 FED COM	754H
6	CALM BREEZE 2 FED COM	743H
7	CALM BREEZE 2 FED COM	753H
8	CALM BREEZE 2 FED COM	742H
9	CALM BREEZE 2 FED COM	----
10	CALM BREEZE 2 FED COM	----
11	CALM BREEZE 2 FED COM	----
12	CALM BREEZE 2 FED COM	----



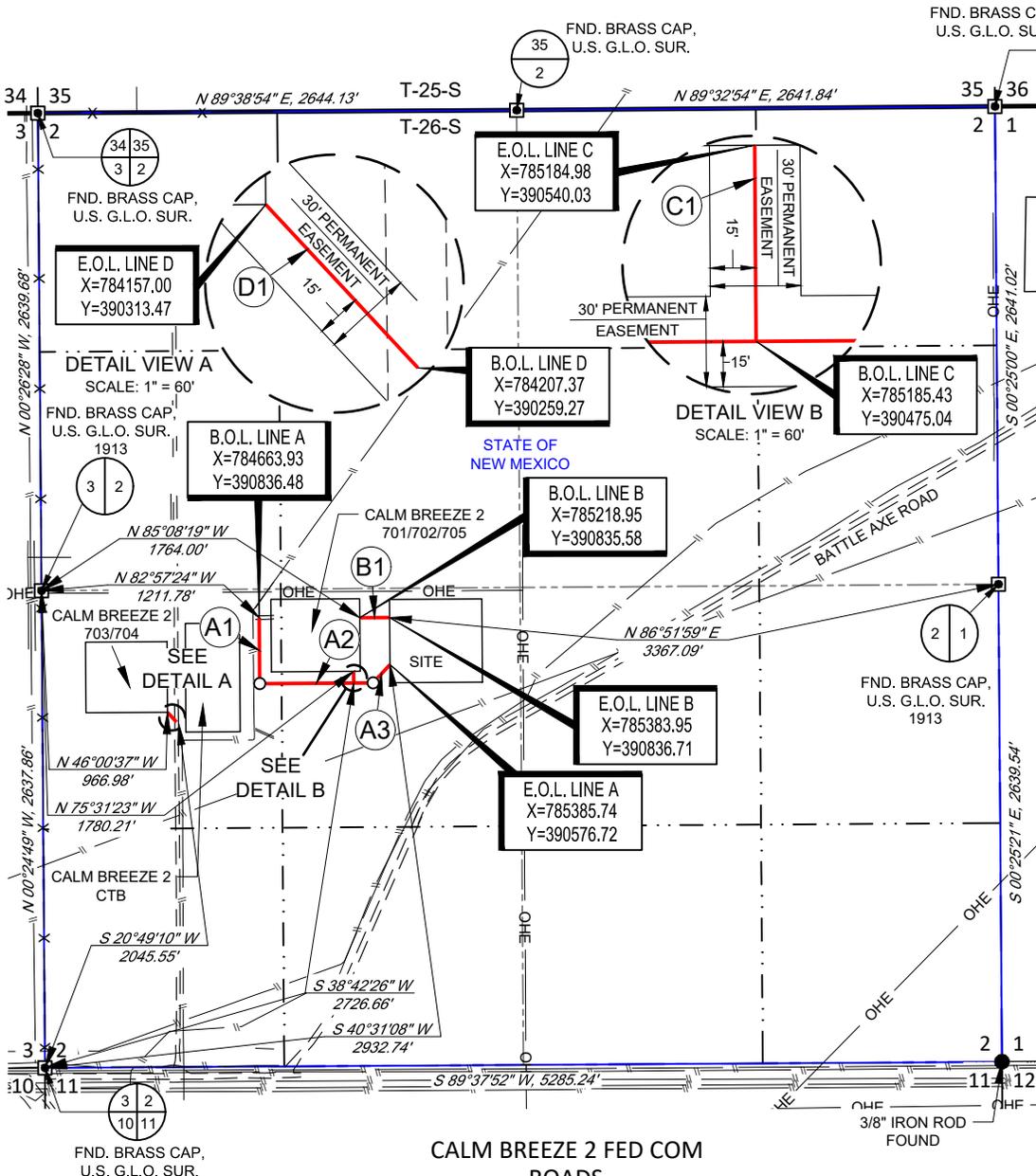
CALM BREEZE 2 FED COM INFRASTRUCTURE MAP	REVISION:	
DATE:	07/22/2021	
FILE:	SK_CALM_BREEZE_2_FED_COM_INFRA	
DRAWN BY:	A.V.F.	
SHEET :	2 OF 2	



TYPICAL PAD  
NOT TO SCALE

SECTION 2, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

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



**LINE A TABLE**

LINE	BEARING	DISTANCE
A1	S 00°23'29" E	365.00'
A2	N 89°36'31" E	625.49'
A3	N 42°54'36" E	137.84'

**LINE B TABLE**

LINE	BEARING	DISTANCE
B1	N 89°36'20" E	165.00'

**LINE C TABLE**

LINE	BEARING	DISTANCE
C1	N 00°23'39" W	65.00'

**LINE D TABLE**

LINE	BEARING	DISTANCE
D1	N 42°54'05" W	74.00'

**LEGEND**

- TOWNSHIP LINE
- SECTION LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE
- TRACT BORDER
- SURVEYED BASELINE
- EDGE OF EASEMENT
- ROAD WAY
- FENCE LINE
- EXISTING PIPELINE
- OVERHEAD ELECTRIC
- WATER LINE
- POINT OF INTERSECTION
- IRON ROD FOUND
- CONCRETE MONUMENT

**CALM BREEZE 2 FED COM ROADS**

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 1432.33 feet or 86.81 rods, containing 0.99 acre more or less and allocated by quarter quarters as follows:

NE/4 SW/4 - 873.38 feet or 52.93 rods, containing 0.60 acre  
NW/4 SW/4 - 558.95 feet or 33.88 rods, containing 0.39 acre



1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
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  
WWW.TOPOGRAPHIC.COM



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



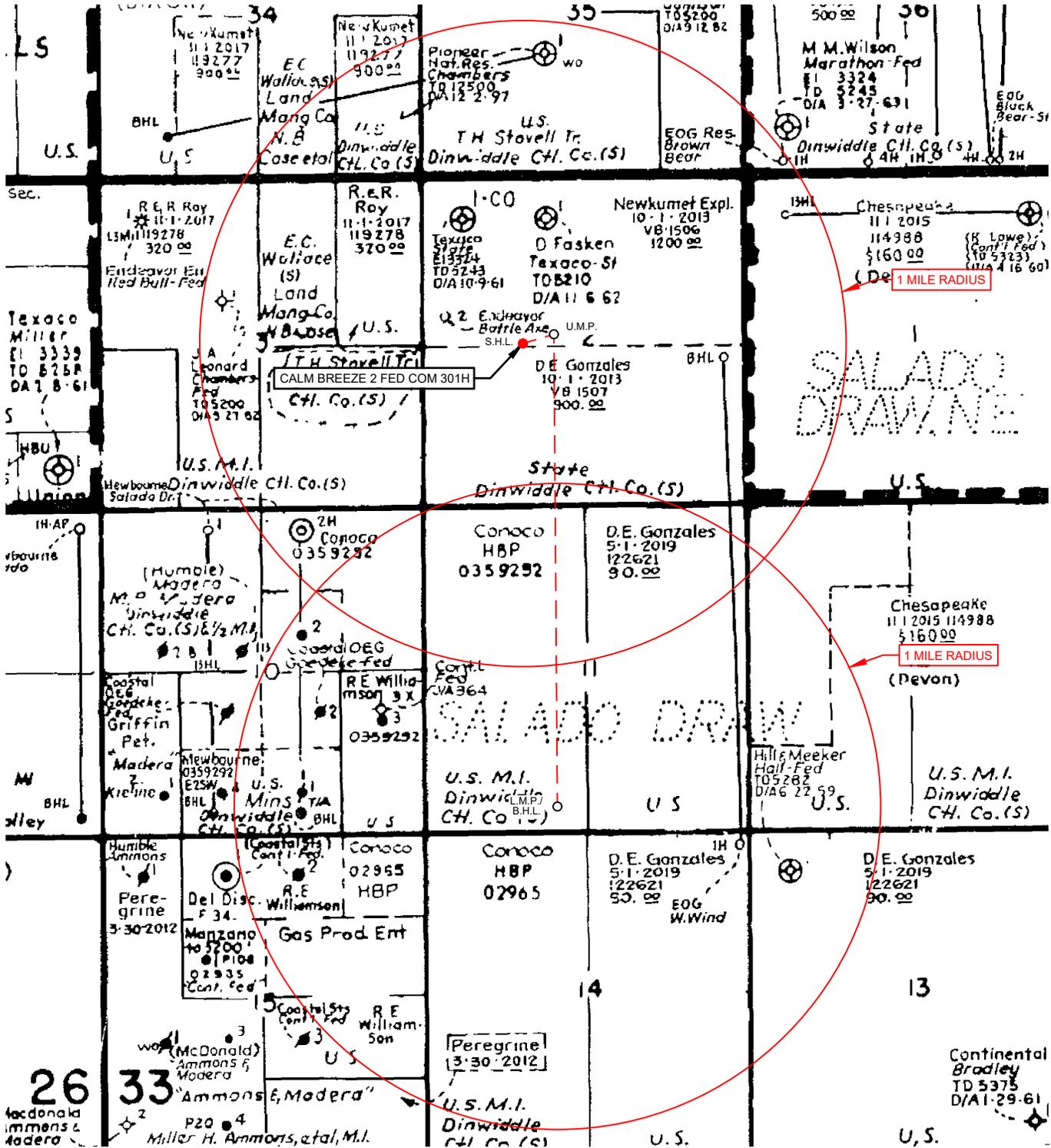
CALM BREEZE 2 FED COM ROADS	REVISION:	
	INT	DATE
DATE: 07/09/2021		
FILE:EP_CALMBREEZE2FEDCOM_ROADS		
DRAWN BY: CSG		
SHEET: 1 OF 1		

- 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. 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.

# EXHIBIT 3



SECTION 2, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: CALM BREEZE 2 FED COM 301H

SCALE: NTS

301H LATITUDE N 32.0718063

301H LONGITUDE W 103.5462611

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.



1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
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  
WWW.TOPOGRAPHIC.COM

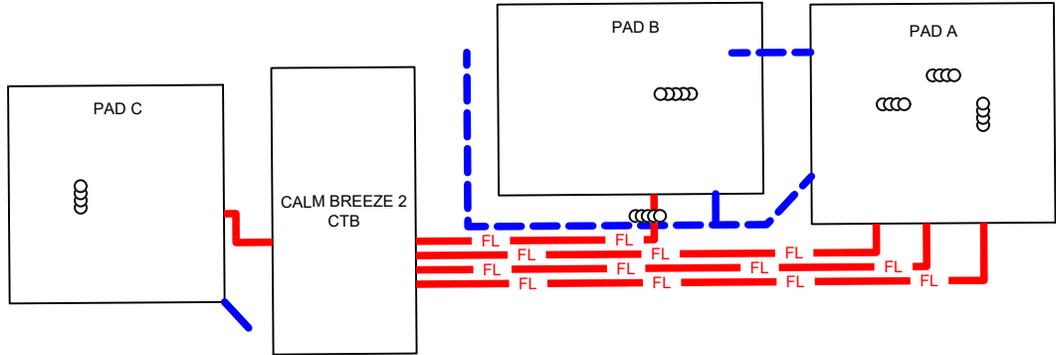
# EXHIBIT 5

SECTION 2, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

## CALM BREEZE 2 FED COM INFRASTRUCTURE MAP



SCALE: 1" = 400'  
0' 200' 400'



FND. BRASS CAP,  
U.S. G.L.O. SUR.  
1913



3 2  
10 11



SEE PAGE 2  
FOR PAD DETAILS

### LEGEND

- SECTION LINE
- PROPOSED SITE
- PROPOSED ROAD
- PROPOSED FLOW LINE
- MONUMENT FOUND

CALM BREEZE 2 FED COM INFRASTRUCTURE MAP	REVISION:	
	INT	DATE
DATE: 07/22/2021		
FILE: SK_CALM_BREEZE_2_FED_COM_INFRA		
DRAWN BY: A.V.F.		
SHEET: 1 OF 2		

# EXHIBIT 5

SECTION 2, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

## CALM BREEZE 2 FED COM INFRASTRUCTURE MAP

PAD A

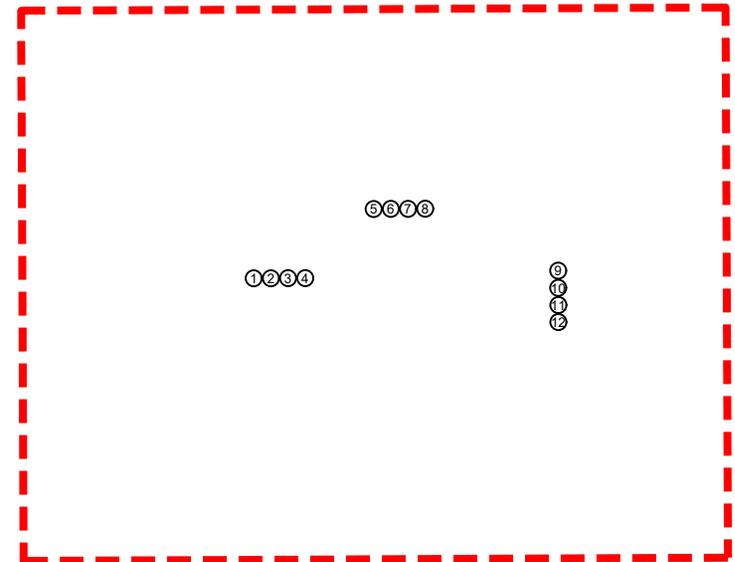
SLOT #	WELL NAME	WELL #
1	CALM BREEZE 2 FED COM	504H
2	CALM BREEZE 2 FED COM	503H
3	CALM BREEZE 2 FED COM	502H
4	CALM BREEZE 2 FED COM	501H
5	CALM BREEZE 2 FED COM	103H
6	CALM BREEZE 2 FED COM	402H
7	CALM BREEZE 2 FED COM	102H
8	CALM BREEZE 2 FED COM	101H
9	CALM BREEZE 2 FED COM	752H
10	CALM BREEZE 2 FED COM	741H
11	CALM BREEZE 2 FED COM	751H
12	CALM BREEZE 2 FED COM	401H

PAD B

SLOT #	WELL NAME	WELL #
1	CALM BREEZE 2 FED COM	----
2	CALM BREEZE 2 FED COM	----
3	CALM BREEZE 2 FED COM	----
4	CALM BREEZE 2 FED COM	----
5	CALM BREEZE 2 FED COM	303H
6	CALM BREEZE 2 FED COM	202H
7	CALM BREEZE 2 FED COM	302H
8	CALM BREEZE 2 FED COM	201H
9	CALM BREEZE 2 FED COM	301H
10	CALM BREEZE 2 FED COM	----
11	CALM BREEZE 2 FED COM	----
12	CALM BREEZE 2 FED COM	----

PAD C

SLOT #	WELL NAME	WELL #
1	CALM BREEZE 2 FED COM	----
2	CALM BREEZE 2 FED COM	----
3	CALM BREEZE 2 FED COM	----
4	WILD WEASEL 22 FED COM	----
5	CALM BREEZE 2 FED COM	754H
6	CALM BREEZE 2 FED COM	743H
7	CALM BREEZE 2 FED COM	753H
8	CALM BREEZE 2 FED COM	742H
9	CALM BREEZE 2 FED COM	----
10	CALM BREEZE 2 FED COM	----
11	CALM BREEZE 2 FED COM	----
12	CALM BREEZE 2 FED COM	----



CALM BREEZE 2 FED COM INFRASTRUCTURE MAP	REVISION:	
DATE:	07/22/2021	
FILE:	SK_CALM_BREEZE_2_FED_COM_INFRA	
DRAWN BY:	A.V.F.	
SHEET :	2 OF 2	



TYPICAL PAD  
NOT TO SCALE



EOG RESOURCES | 5509 CHAMPIONS DRIVE • MIDLAND, TX 79706 | (432) 686-3600

# EOG RESOURCES

## CALM BREEZE 2 FED COM 504H-503H-502H-501H FLOWLINE/INSTRUMENT AIR/LIFT/FIBER OPTIC REEVES COUNTY, TEXAS

### PROPOSED PIPELINE

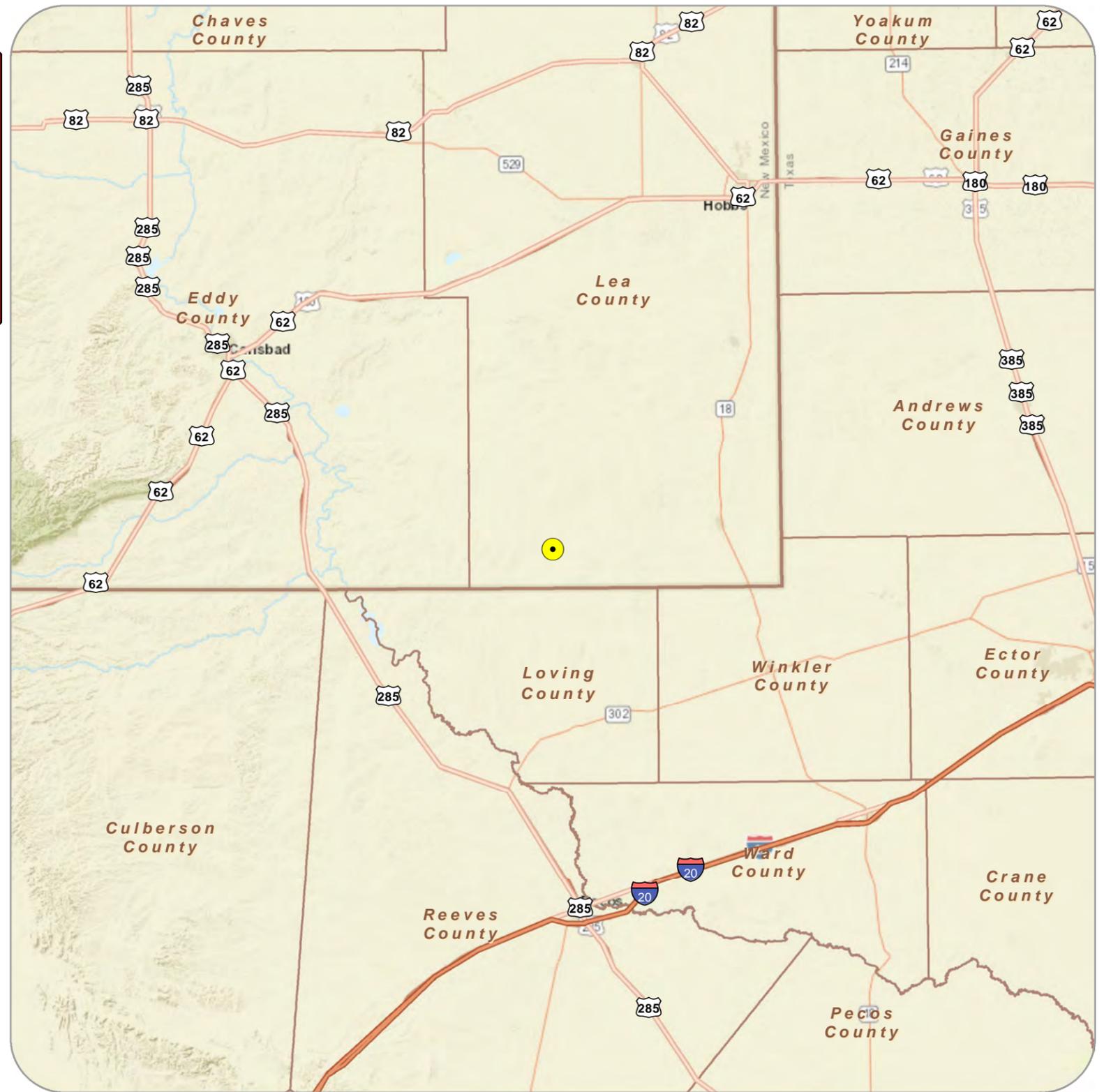
#### PROJECT TOTALS:

TOTAL LENGTH IN FEET: 1024.57  
 TOTAL LENGTH IN RODS: 62.09  
 TOTAL LENGTH IN MILES: 0.19

#### LINE CROSSINGS:

UNDERGROUND PIPELINE: 4  
 ABOVE-GROUND PIPELINE: 0  
 OVER-HEAD UTILITY: 0  
 UNDERGROUND UTILITY: 0  
 FENCE LINE: 0  
 FIELD / LEASE / LOCAL ROAD: 0  
 COUNTY ROAD / RANCH ROAD: 0  
 US / STATE HIGHWAY: 0  
 RAILROAD: 0  
 CREEK: 0

PROJECT LOCATION



3/14/2023

TOPOGRAPHIC, INC. | 481 WINSCOTT ROAD Ste. 200, BENBROOK, TEXAS 76126 | (817) 744-7512

DOC: 1. COVER\_PAGE\_CALM BREEZE 2 FED COM 504H-503H-502H-501H FLOWLINE/INSTRUMENT AIR/LIFT/FIBER OPTIC | REV: 0



NM-LEA-TRACT-1.00 |



**Legend**

- Proposed Pipeline
- Tract

481 WINSOTT ROAD Ste. 200, BENBROOK, TEXAS 76126  
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7548  
 TEXAS FIRM REGISTRATION NO. 10042504  
 WWW.TOPOGRAPHIC.COM

DATE: 3/14/2023

DRAWN BY: A.F.G

CHECKED BY: A.F.G

**CALM BREEZE 2 FED COM 504H-503H-502H-501H FLOWLINE INSTRUMENT AIR LIFT FIBER OPTIC**

REEVES COUNTY, TEXAS



1 in = 749 feet

5509 CHAMPIONS DRIVE • MIDLAND, TX 79706  
 TELEPHONE: (432) 686-3600

OWNERSHIP & TRACT NO.

0+00.0

LC-01  
SECTION 2, T-26-S, R-33-E  
1024.57 FEET OR 62.10 RODS

10+24.6

P.T. NUMBER	STATION	LATITUDE	LONGITUDE	DEFLECTION
BEGIN LINE	0+00.0	32.07705	103.54502	
	0+60.3	32.07088	103.54502	90°00'
END LINE	10+24.6	32.07089	103.54813	

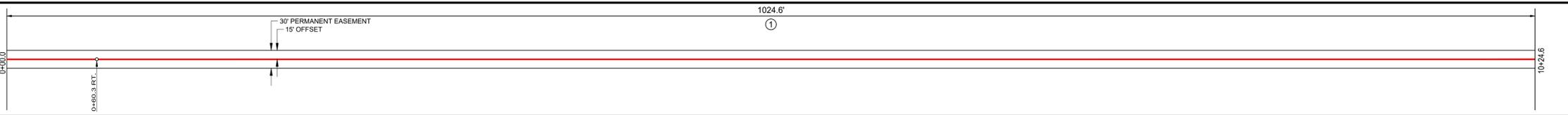
PLAN VIEW



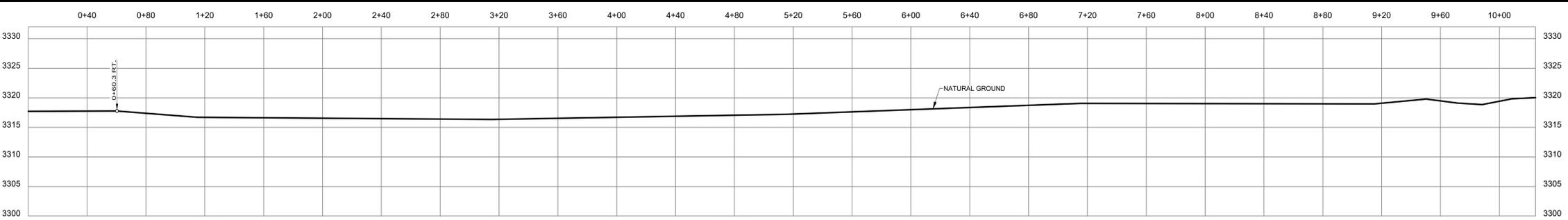
STATIONING



PIPE DETAIL: N.T.S.



PROFILE SCALE: 1"=40' HORIZ. 1"=10' VERT.



MATERIAL SUMMARY		
NO.	DESCRIPTION	QUANTITY
1	PIPE	1024.6

LEGEND	
	PROPOSED PIPELINE
	SURVEY/SECTION LINE
	PROPERTY LINE
	FENCE LINE
	EXISTING PIPELINE
	EXISTING POWER LINE
	ROAD WAY
	PERMANENT EASEMENT
	TEMPORARY WORKSPACE
	ADDITIONAL TEMPORARY WORKSPACE
	POINT OF INTERSECTION
	BORE ENTRY/EXIT

REVISION		
NO.	DESCRIPTION	DATE

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

WARNING  
A REASONABLE ATTEMPT HAS BEEN MADE TO LOCATE ALL UNDERGROUND OBSTRUCTIONS BUT UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY AND THERE MAY ALSO BE OTHER UNDERGROUND UTILITIES THAT ARE NOT SHOWN. IT IS STILL THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND FACILITIES WITHIN WORKING AREA. CONTRACTOR MUST CONTACT ONE CALL UTILITY LOCATION SERVICES AND THE OWNERS OF THE UTILITIES TO VERIFY THEIR LOCATION.

THIS DOCUMENT IS FOR CONSTRUCTION PURPOSES ONLY AND IS NOT INTENDED TO BE FILED OF RECORD FOR EASEMENT OR ANY OTHER PURPOSE.

CONSTRUCTION YEAR		
DWN	NPB	DATE
QA/QC		07/23/2021

**geog resources, inc.**

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 748-7252 • FAX: (817) 744-7254  
TEXAS FIRM REGISTRATION NO. 10042254  
WWW.TOPOGRAPHIC.COM

**CALM BREEZE 2 FED COM  
504H-503H-502H-501H FLOWLINE/  
INSTRUMENT AIR/LIFT/FIBER OPTIC**

0+00.0 TO 10+24.6  
MP 0.0 TO MP 0.2

**LEA COUNTY, NEW MEXICO**

DRAWING NAME	
PREVIOUS DRAWING NAME	
SHEET OF	1
DATE	07/23/2021
SHEET 1 OF 1	

EOG Resources, Inc.  
CALM BREEZE 2 FED COM  
504H-503H-502H-501H  
FLOWLINE/INSTRUMENT AIR/LIFT/FIBER OPTIC

P.I. NUMBER	STATION	LATITUDE	LONGITUDE	DEFLECTION
BEGIN LINE	0+00.0	32.07105	103.54502	--
1	0+60.3	32.07088	103.54502	90°00'
END LINE	10+24.6	32.07089	103.54813	--

Topographic Land Surveyors  
1400 Everman Parkway  
Suite 146  
Fort Worth, TX 76140



EOG RESOURCES | 5509 CHAMPIONS DRIVE • MIDLAND, TX 79706 | (432) 686-3600

# EOG RESOURCES

## CALM BREEZE 2 FED COM 103H-402H-102H-101H FLOWLINE/INSTRUMENT AIR/LIFT/FIBER OPTIC REEVES COUNTY, TEXAS

### PROPOSED PIPELINE

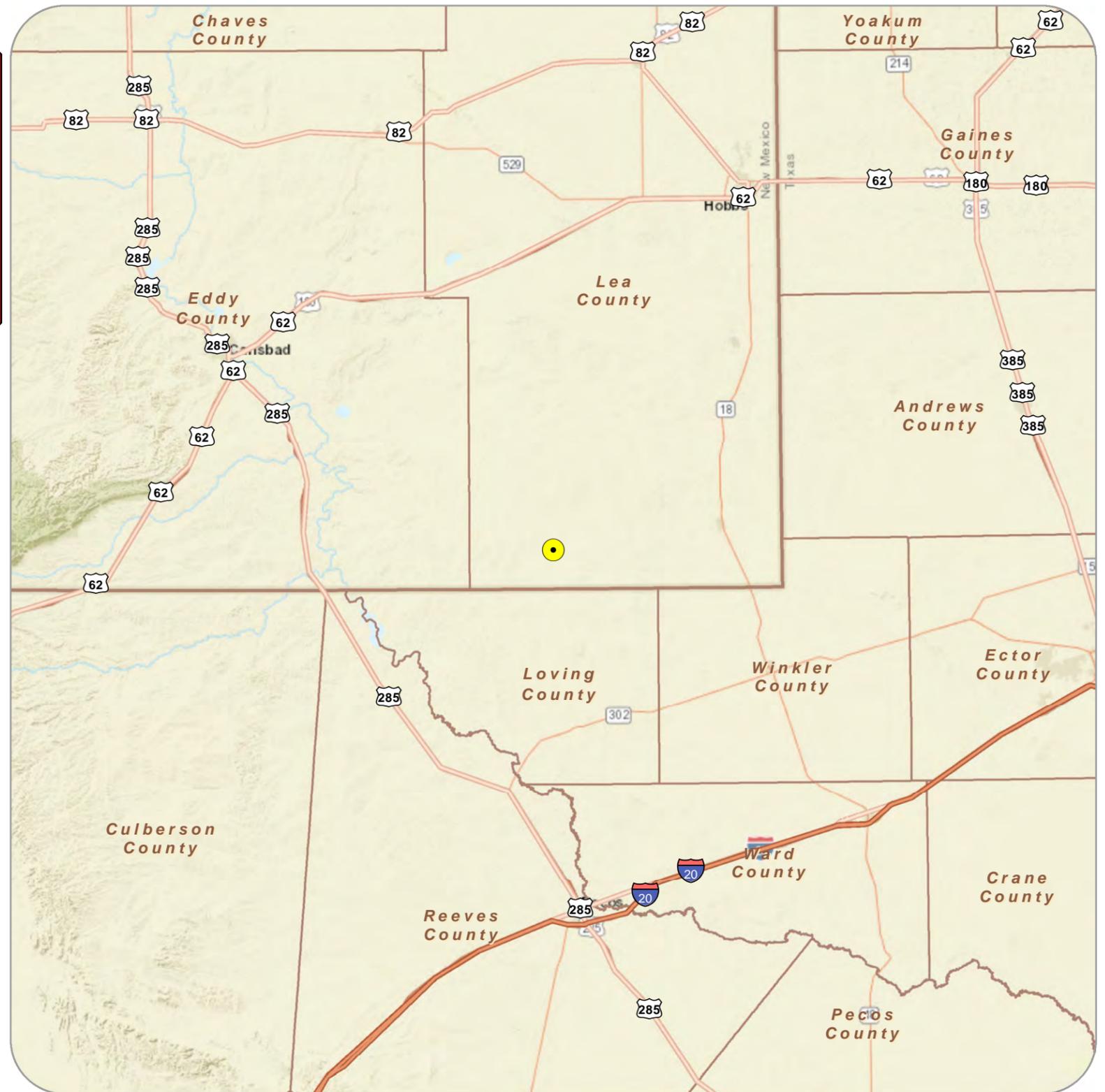
#### PROJECT TOTALS:

TOTAL LENGTH IN FEET: 1159.57  
 TOTAL LENGTH IN RODS: 70.28  
 TOTAL LENGTH IN MILES: 0.22

#### LINE CROSSINGS:

UNDERGROUND PIPELINE: 4  
 ABOVE-GROUND PIPELINE: 0  
 OVER-HEAD UTILITY: 0  
 UNDERGROUND UTILITY: 0  
 FENCE LINE: 0  
 FIELD / LEASE / LOCAL ROAD: 0  
 COUNTY ROAD / RANCH ROAD: 0  
 US / STATE HIGHWAY: 0  
 RAILROAD: 0  
 CREEK: 0

PROJECT LOCATION



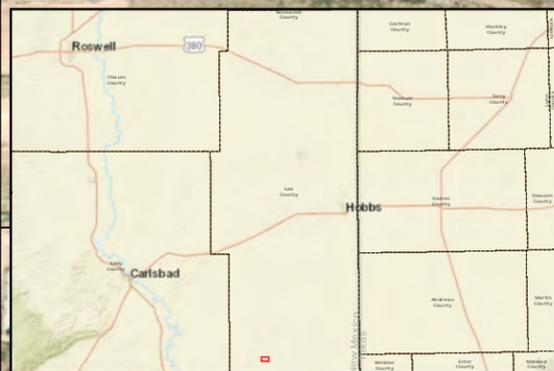
3/14/2023

TOPOGRAPHIC, INC. | 481 WINSCOTT ROAD Ste. 200, BENBROOK, TEXAS 76126 | (817) 744-7512

DOC: 1. COVER\_PAGE\_CALM BREEZE 2 FED COM 103H-402H-102H-101H FLOWLINE/INSTRUMENT AIR/LIFT/FIBER OPTIC | REV: 0



NM-LEA-TRACT-1.00 |



**Legend**

- Proposed Pipeline
- Tract

481 WINSOTT ROAD Ste. 200, BENBROOK, TEXAS 76126  
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7548  
 TEXAS FIRM REGISTRATION NO. 10042504  
 WWW.TOPOGRAPHIC.COM

DATE: 3/14/2023

DRAWN BY: A.F.G

CHECKED BY: A.F.G

**CALM BREEZE 2 FED COM 103H-402H-102H-101H FLOWLINE INSTRUMENT AIR LIFT FIBER OPTIC**

REEVES COUNTY, TEXAS

1 in = 749 feet

5509 CHAMPIONS DRIVE • MIDLAND, TX 79706  
 TELEPHONE: (432) 686-3600

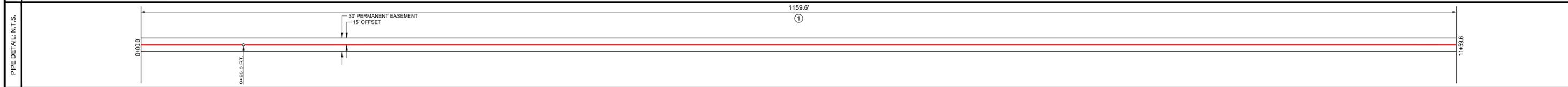
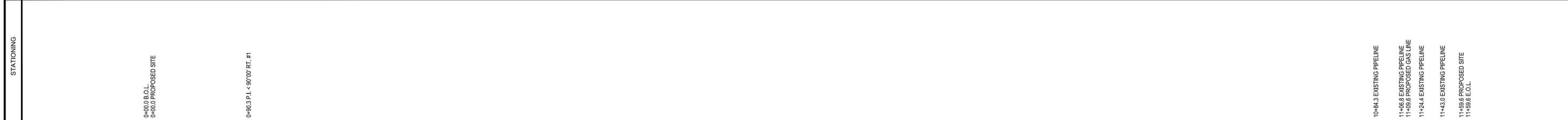
OWNERSHIP & TRACT NO.

0+00.0

LC-01  
SECTION 2, T-26-S, R-33-E  
1159.57 FEET OR 70.28 RODS

11+59.6

P.T. NUMBER	STATION	LATITUDE	LONGITUDE	DEFLECTION
BEGIN LINE	0+00.0	32.07716	103.54468	90°00'
	0+90.3	32.07080	103.54468	90°00'
END LINE	11+59.6	32.07080	103.54813	-



MATERIAL SUMMARY		LEGEND		REVISION			CONSTRUCTION YEAR		
NO.	DESCRIPTION	QUANTITY		NO.	DESCRIPTION	DATE	BY	DATE	
1	PIPE	1159.6	<ul style="list-style-type: none"> <li>PROPOSED PIPELINE</li> <li>SURVEY/SECTION LINE</li> <li>PROPERTY LINE</li> <li>FENCE LINE</li> <li>EXISTING PIPELINE</li> <li>EXISTING POWER LINE</li> <li>ROAD WAY</li> <li>PERMANENT EASEMENT</li> <li>TEMPORARY WORKSPACE</li> <li>ADDITIONAL TEMPORARY WORKSPACE</li> <li>POINT OF INTERSECTION</li> <li>BORE ENTRY/EXIT</li> </ul>				DWN	NPB	07/23/2021

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.

**WARNING**

A REASONABLE ATTEMPT HAS BEEN MADE TO LOCATE ALL UNDERGROUND OBSTRUCTIONS BUT UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY AND THERE MAY ALSO BE OTHER UNDERGROUND UTILITIES THAT ARE NOT SHOWN. IT IS STILL THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND FACILITIES WITHIN WORKING AREA. CONTRACTOR MUST CONTACT ONE CALL UTILITY LOCATION SERVICES AND THE OWNERS OF THE UTILITIES TO VERIFY THEIR LOCATION.

THIS DOCUMENT IS FOR CONSTRUCTION PURPOSES ONLY AND IS NOT INTENDED TO BE FILED OF RECORD FOR EASEMENT OR ANY OTHER PURPOSE.

SCALE: 1" = 40'

DOCUMENT SIZE: 24" X 36"

1400 EVERMAN PARKWAY, SUITE 146 • FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 748-7252 • FAX: (817) 744-7254  
TEXAS FIRM REGISTRATION NO. 10042954  
WWW.TOPOGRAPHIC.COM

**CAHM BREEZE 2 FED COM**  
**103H-402H-102H-101H FLOWLINE/**  
**INSTRUMENT AIR/LIFT/FIBER OPTIC**

0+00 TO 11+60  
MP 0.0 TO MP 0.2

**LEA COUNTY, NEW MEXICO**

DRAWING NAME

PREVIOUS DRAWING NAME

SHEET OF

DATE

07/23/2021

SHEET 1 OF 1

EOG Resources, Inc.  
CALM BREEZE 2 FED COM  
103H-402H-102H-101H  
FLOWLINE/INSTRUMENT AIR/LIFT/FIBER OPTIC

P.I. NUMBER	STATION	LATITUDE	LONGITUDE	DEFLECTION
BEGIN LINE	0+00.0	32.07105	103.54468	--
1	0+90.3	32.07080	103.54468	90°00'
END LINE	11+59.6	32.07080	103.54813	--

Topographic Land Surveyors  
1400 Everman Parkway  
Suite 146  
Fort Worth, TX 76140



EOG RESOURCES | 5509 CHAMPIONS DRIVE • MIDLAND, TX 79706 | (432) 686-3600

# EOG RESOURCES

## CALM BREEZE 2 FED COM 303H-202H-302H-201H-301H FLOWLINE/INSTRUMENT AIR/LIFT/FIBER OPTIC REEVES COUNTY, TEXAS

### PROPOSED PIPELINE

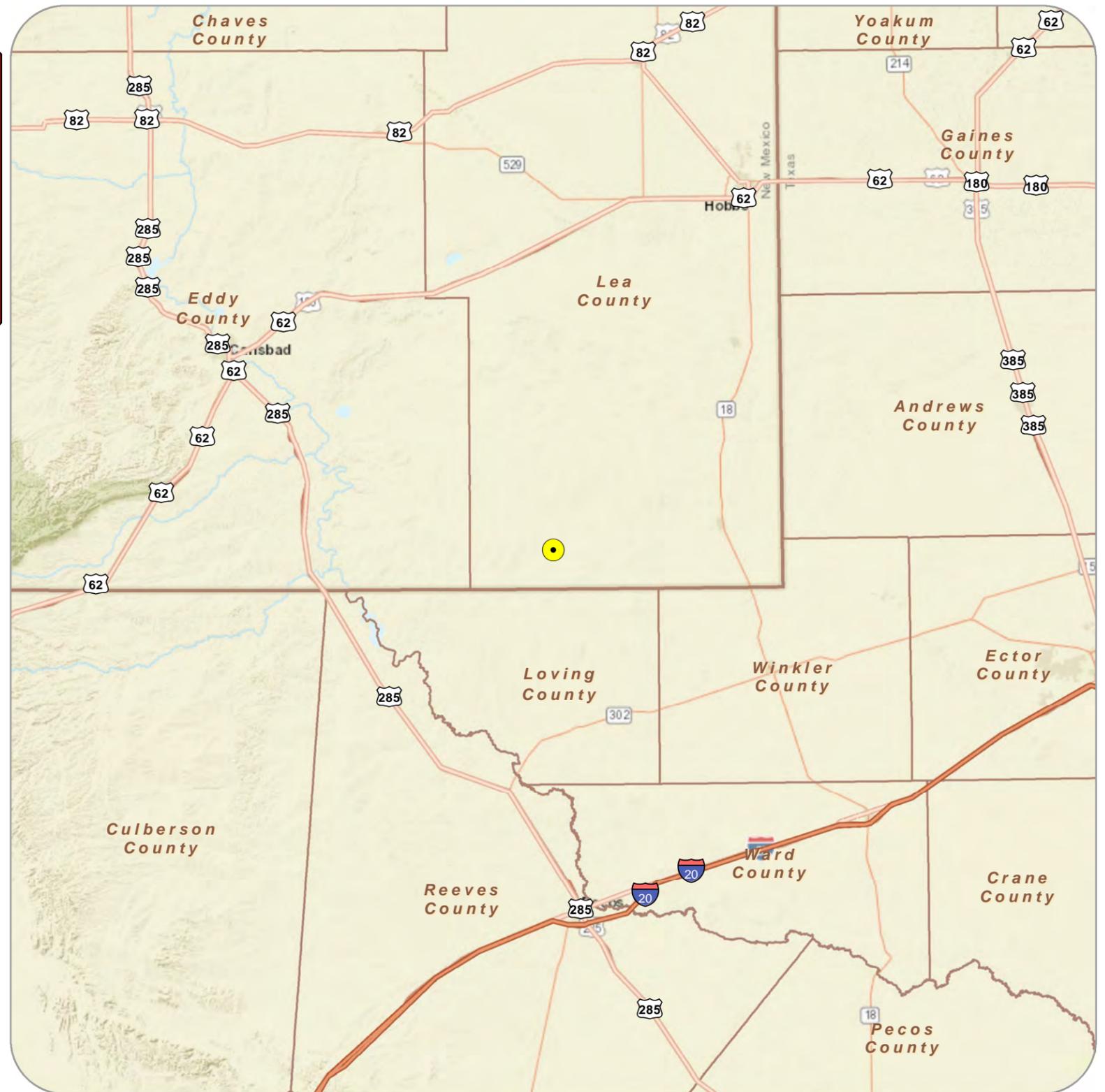
#### PROJECT TOTALS:

TOTAL LENGTH IN FEET: 594.23  
 TOTAL LENGTH IN RODS: 36.01  
 TOTAL LENGTH IN MILES: 0.11

#### LINE CROSSINGS:

UNDERGROUND PIPELINE: 4  
 ABOVE-GROUND PIPELINE: 0  
 OVER-HEAD UTILITY: 0  
 UNDERGROUND UTILITY: 0  
 FENCE LINE: 0  
 FIELD / LEASE / LOCAL ROAD: 0  
 COUNTY ROAD / RANCH ROAD: 0  
 US / STATE HIGHWAY: 0  
 RAILROAD: 0  
 CREEK: 0

PROJECT LOCATION



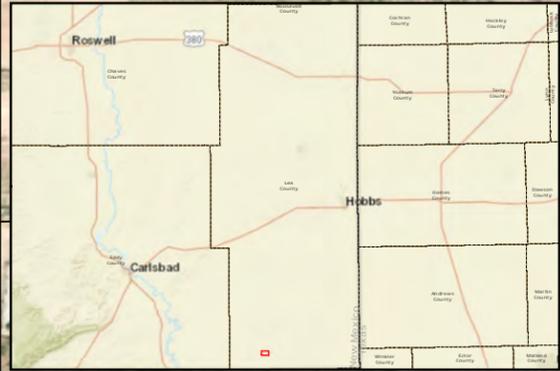
3/14/2023

TOPOGRAPHIC, INC. | 481 WINSCOTT ROAD Ste. 200, BENBROOK, TEXAS 76126 | (817) 744-7512

DOC: 1. COVER\_PAGE\_CALM BREEZE 2 FED COM 303H-202H-302H-201H-301H FLOWLINE/INSTRUMENT AIR/LIFT/FIBER OPTIC | REV: 0



NM-LEA-TRACT-1.00 |



**Legend**

- Proposed Pipeline
- Tract

481 WINSOTT ROAD Ste. 200, BENBROOK, TEXAS 76126  
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7548  
 TEXAS FIRM REGISTRATION NO. 10042504  
 WWW.TOPOGRAPHIC.COM

DATE: 3/14/2023

DRAWN BY: A.F.G

CHECKED BY: A.F.G

**CALM BREEZE 2 FED COM 303H-202H-302H-201H-301H FLOWLINE INSTRUMENT AIR LIFT FIBER OPTIC**

REEVES COUNTY, TEXAS



1 in = 749 feet

5509 CHAMPIONS DRIVE • MIDLAND, TX 79706  
 TELEPHONE: (432) 686-3600

OWNERSHIP & TRACT NO.

0+00.0

LC-01  
SECTION 2, T-26-S, R-33-E  
594.23 FEET OR 36.01 RODS

5+94.2

P.T. NUMBER	STATION	LATITUDE	LONGITUDE	DEFLECTION
BEGIN LINE	0+00.0	32.07123	103.54852	90°00'
END LINE	5+94.2	32.07097	103.54813	-

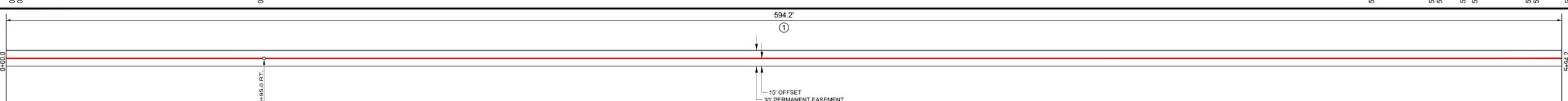
PLAN VIEW



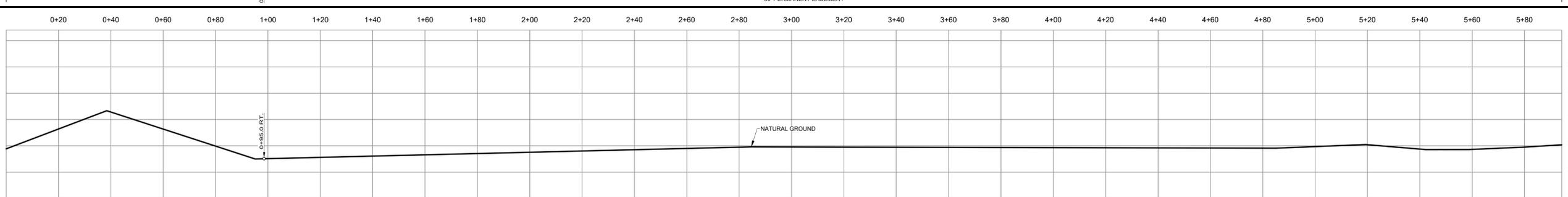
STATIONING



PIPE DETAIL: N.T.S.



PROFILE SCALE: 1"=20' HORIZ. 1"=10' VERT.



MATERIAL SUMMARY		
NO.	DESCRIPTION	QUANTITY
1	PIPE	594.2

LEGEND	
	PROPOSED PIPELINE
	SURVEY/SECTION LINE
	PROPERTY LINE
	FENCE LINE
	EXISTING PIPELINE
	EXISTING POWER LINE
	ROAD WAY
	PERMANENT EASEMENT
	TEMPORARY WORKSPACE
	ADDITIONAL TEMPORARY WORKSPACE
	POINT OF INTERSECTION
	BORE ENTRY/EXIT

REVISION		
NO.	DESCRIPTION	DATE

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

WARNING  
A REASONABLE ATTEMPT HAS BEEN MADE TO LOCATE ALL UNDERGROUND OBSTRUCTIONS BUT UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY AND THERE MAY ALSO BE OTHER UNDERGROUND UTILITIES THAT ARE NOT SHOWN. IT IS STILL THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL UNDERGROUND FACILITIES WITHIN WORKING AREA. CONTRACTOR MUST CONTACT ONE CALL UTILITY LOCATION SERVICES AND THE OWNERS OF THE UTILITIES TO VERIFY THEIR LOCATION.

THIS DOCUMENT IS FOR CONSTRUCTION PURPOSES ONLY AND IS NOT INTENDED TO BE FILED OF RECORD FOR EASEMENT OR ANY OTHER PURPOSE.

CONSTRUCTION YEAR		
BY	DATE	
DWN	GLH	7/22/2021
QA/QC	BR	

**Geog resources, inc.**

**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 344-7552 • FAX: (817) 344-7554  
TEXAS FIRM REGISTRATION NO. 10042564  
WWW.TOPOGRAPHIC.COM

**CALM BREEZE 2 FED COM  
303H-202H-302H-201H  
FLOW LINE**

0+00.0 TO 5+94.2  
MP 0.0 TO MP 0.1

**LEA COUNTY, NEW MEXICO**

DRAWING NAME	
PREVIOUS DRAWING NAME	
SHEET OF	
DATE	7/22/2021
SHEET	1 OF 1

EOG Resources, Inc.  
CALM BREEZE 2 FED COM  
303H-202H-302H-201H  
FLOWLINE/INSTRUMENT AIR/LIFT/FIBER OPTIC

P.I. NUMBER	STATION	LATITUDE	LONGITUDE	DEFLECTION
BEGIN LINE	0+00.0	32.07123	103.54652	--
1	0+95.0	32.07097	103.54652	90°00'
END LINE	5+94.2	32.07097	103.54813	--

Topographic Land Surveyors  
1400 Everman Parkway  
Suite 146  
Fort Worth, TX 76140



EOG RESOURCES | 5509 CHAMPIONS DRIVE • MIDLAND, TX 79706 | (432) 686-3600

# EOG RESOURCES

## CALM BREEZE 2 FED COM 752H-741H-751H-401H FLOWLINE/INSTRUMENT AIR/LIFT/FIBER OPTIC REEVES COUNTY, TEXAS

### PROPOSED PIPELINE

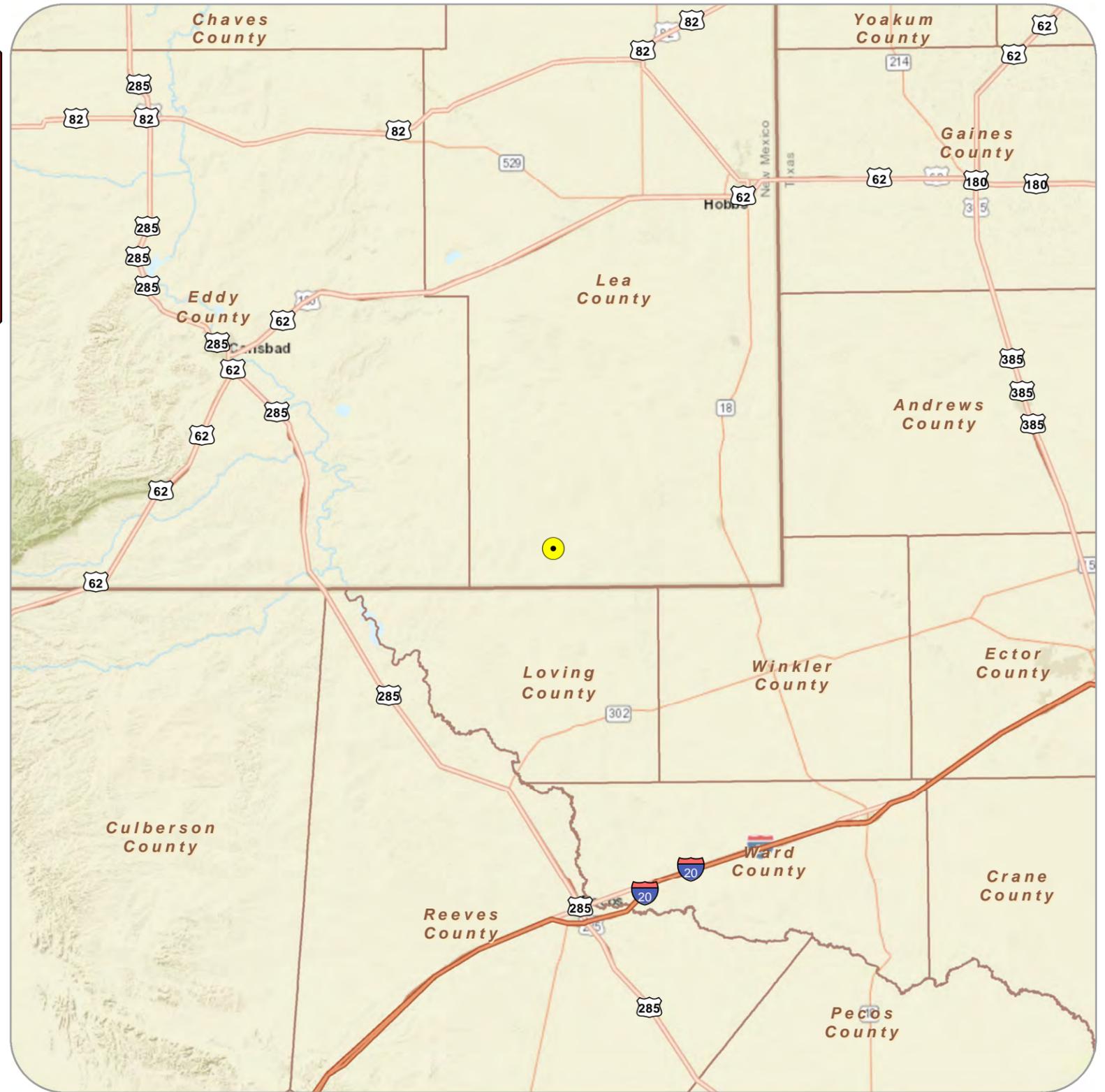
#### PROJECT TOTALS:

TOTAL LENGTH IN FEET: 1309.58  
 TOTAL LENGTH IN RODS: 79.37  
 TOTAL LENGTH IN MILES: 0.25

#### LINE CROSSINGS:

UNDERGROUND PIPELINE: 4  
 ABOVE-GROUND PIPELINE: 0  
 OVER-HEAD UTILITY: 0  
 UNDERGROUND UTILITY: 0  
 FENCE LINE: 0  
 FIELD / LEASE / LOCAL ROAD: 0  
 COUNTY ROAD / RANCH ROAD: 0  
 US / STATE HIGHWAY: 0  
 RAILROAD: 0  
 CREEK: 0

PROJECT LOCATION



3/14/2023

TOPOGRAPHIC, INC. | 481 WINSCOTT ROAD Ste. 200, BENBROOK, TEXAS 76126 | (817) 744-7512

DOC: 1. COVER\_PAGE\_CALM BREEZE 2 FED COM 752H-741H-751H-401H FLOWLINE/INSTRUMENT AIR/LIFT/FIBER OPTIC | REV: 0



NM-LEA-TRACT-1.00 |



**Legend**

- Proposed Pipeline
- Tract

481 WINSOTT ROAD Ste. 200, BENBROOK, TEXAS 76126  
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7548  
 TEXAS FIRM REGISTRATION NO. 10042504  
 WWW.TOPOGRAPHIC.COM

DATE: 3/14/2023

DRAWN BY: A.F.G

CHECKED BY: A.F.G

**CALM BREEZE 2 FED COM 752H-741H-751H-401H FLOWLINE INSTRUMENT AIR LIFT FIBER OPTIC**

REEVES COUNTY, TEXAS

1 in = 749 feet

5509 CHAMPIONS DRIVE • MIDLAND, TX 79706  
 TELEPHONE: (432) 686-3600

OWNERSHIP & TRACT NO.

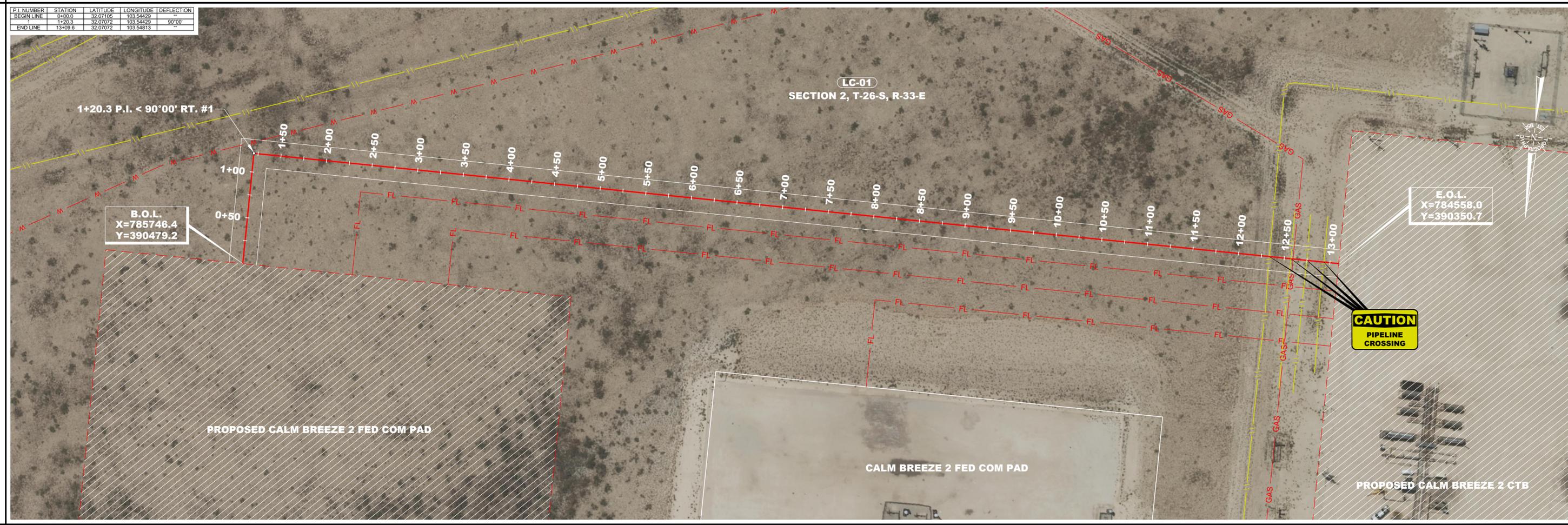
0+00.0

LC-01  
SECTION 2, T-26-S, R-33-E  
1309.58 FEET OR 79.37 RODS

13+09.6

PT NUMBER	STATION	LATITUDE	LONGITUDE	DEFLECTION
BEGIN LINE	0+00.0	32.07195	103.54429	
	1+20.3	32.07072	103.54429	90°00'
END LINE	13+09.6	32.07072	103.54813	

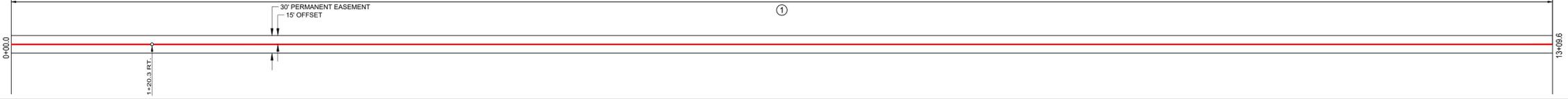
PLAN VIEW



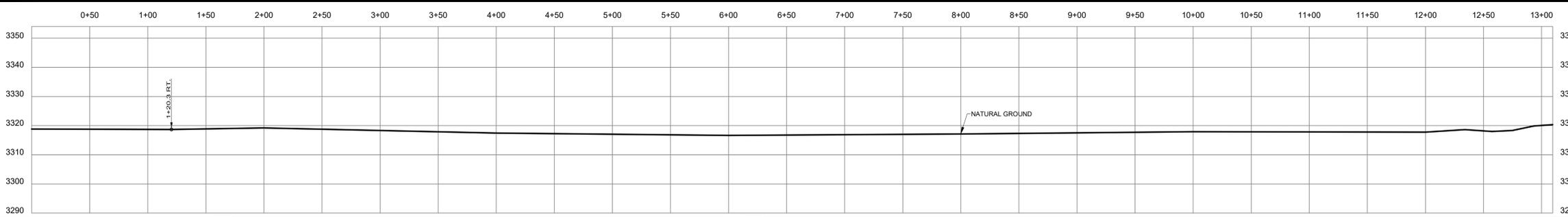
STATIONING



PIPE DETAIL: N.T.S.



PROFILE SCALE: 1"=50' HORIZ. 1"=20' VERT.



MATERIAL SUMMARY		QUANTITY
NO.	DESCRIPTION	
1	PIPE	1309.6

LEGEND	
	PROPOSED PIPELINE
	SURVEY/SECTION LINE
	PROPERTY LINE
	FENCE LINE
	EXISTING PIPELINE
	EXISTING POWER LINE
	ROAD WAY
	PERMANENT EASEMENT
	TEMPORARY WORKSPACE
	ADDITIONAL TEMPORARY WORKSPACE
	POINT OF INTERSECTION
	BORE ENTRY/EXIT

REVISION		
NO.	DESCRIPTION	DATE

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

WARNING  
A REASONABLE ATTEMPT HAS BEEN MADE TO LOCATE ALL UNDERGROUND OBSTRUCTIONS BUT UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY AND THERE MAY ALSO BE OTHER UNDERGROUND UTILITIES THAT ARE NOT SHOWN. IT IS STILL THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL UNDERGROUND FACILITIES WITHIN WORKING AREA. CONTRACTOR MUST CONTACT ONE CALL UTILITY LOCATION SERVICES AND THE OWNERS OF THE UTILITIES TO VERIFY THEIR LOCATION.

THIS DOCUMENT IS FOR CONSTRUCTION PURPOSES ONLY AND IS NOT INTENDED TO BE FILED OF RECORD FOR EASEMENT OR ANY OTHER PURPOSE.

CONSTRUCTION YEAR		
DWN	NPB	DATE
		07/23/2021

**geog resources, inc.**

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 344-7522 • FAX: (817) 344-7524  
TEXAS FIRM REGISTRATION NO. 10042564  
WWW.TOPOGRAPHIC.COM

**CALM BREEZE 2 FED COM  
752H-741H-751H-401H FLOWLINE/  
INSTRUMENT AIR/LIFT/FIBER OPTIC**

0+00.0 TO 13+09.6  
MP 0.0 TO MP 0.2

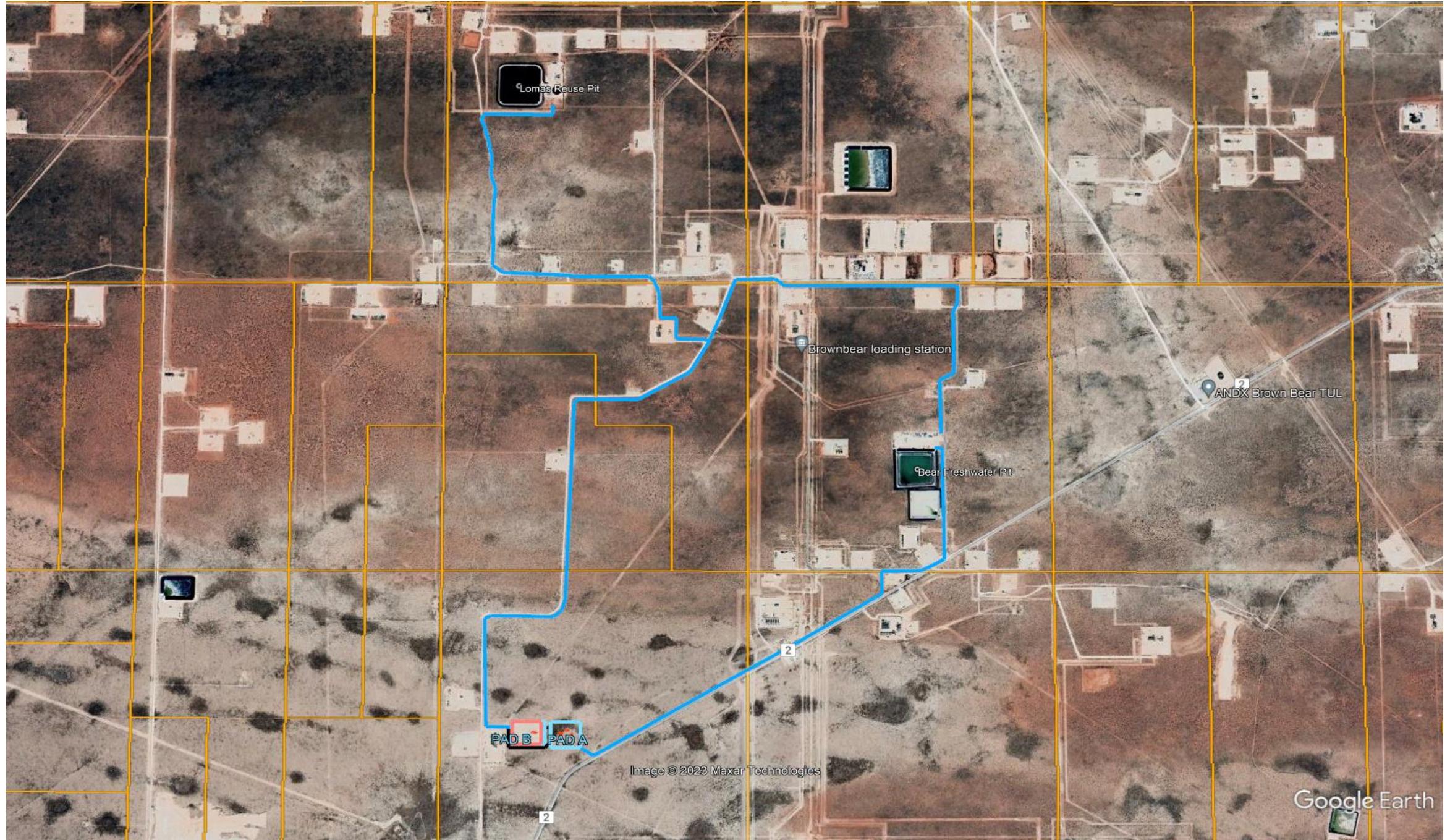
**LEA COUNTY, NEW MEXICO**

DRAWING NAME	
PREVIOUS DRAWING NAME	
SHEET OF	
DATE	07/23/2021
SHEET 1 OF 1	

EOG Resources, Inc.  
CALM BREEZE 2 FED COM  
752H-741H-751H-401H  
FLOWLINE/INSTRUMENT AIR/LIFT/FIBER OPTIC

P.I. NUMBER	STATION	LATITUDE	LONGITUDE	DEFLECTION
BEGIN LINE	0+00.0	32.07105	103.54429	--
1	1+20.3	32.07072	103.54429	90°00'
END LINE	13+09.6	32.07072	103.54813	--

Topographic Land Surveyors  
1400 Everman Parkway  
Suite 146  
Fort Worth, TX 76140



Calm Breeze 2 Fed Com Water Map

# EXHIBIT 2B

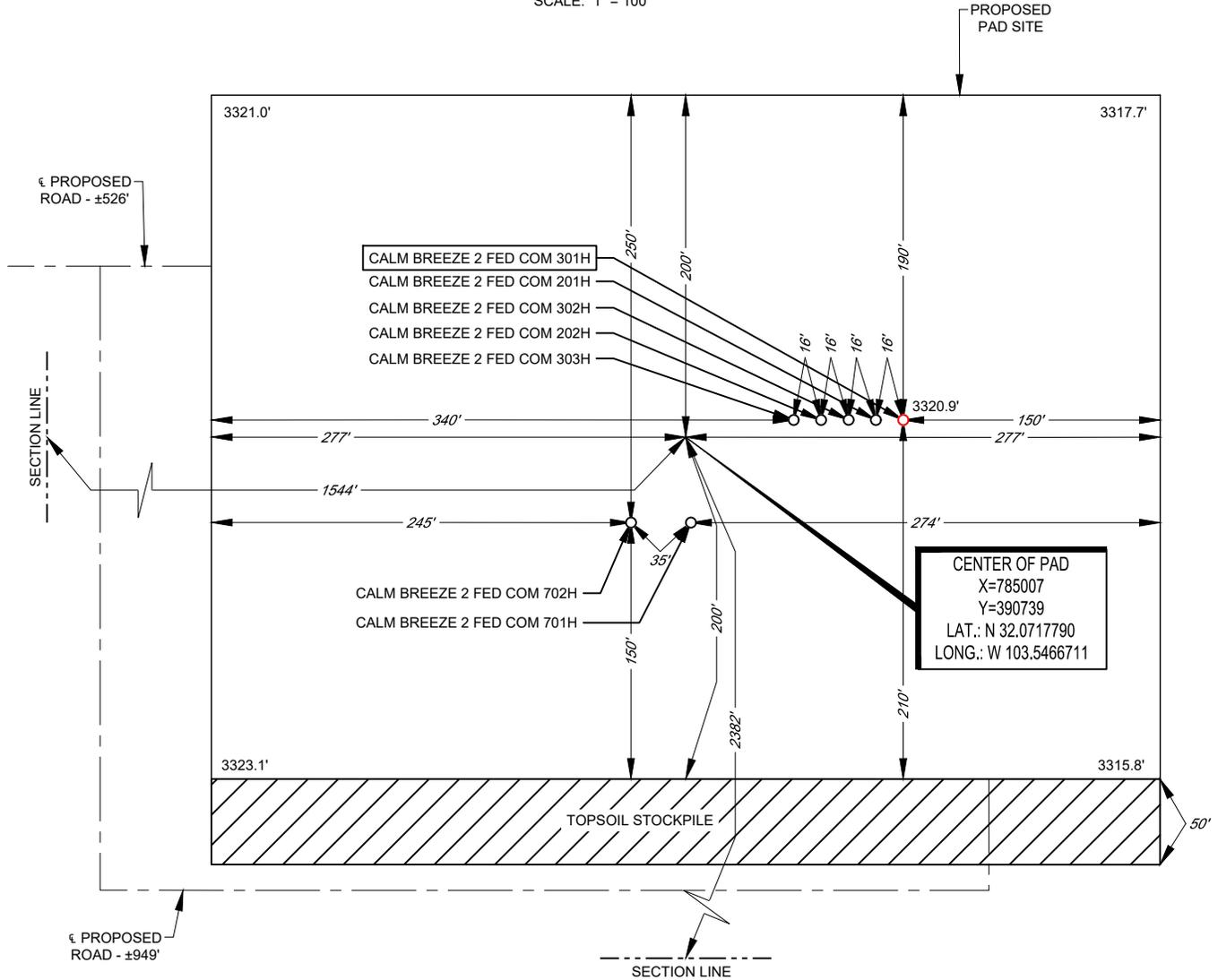


## LEGEND

- SECTION LINE
- - - PROPOSED ROAD

SECTION 2, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

DETAIL VIEW  
SCALE: 1" = 100'



LEASE NAME & WELL NO.: CALM BREEZE 2 FED COM 301H  
301H LATITUDE N 32.0718063 301H LONGITUDE W 103.5462611

CENTER OF PAD IS 2382' FSL & 1544' FWL



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

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. 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.



SCALE: 1" = 100'  
0' 50' 100'



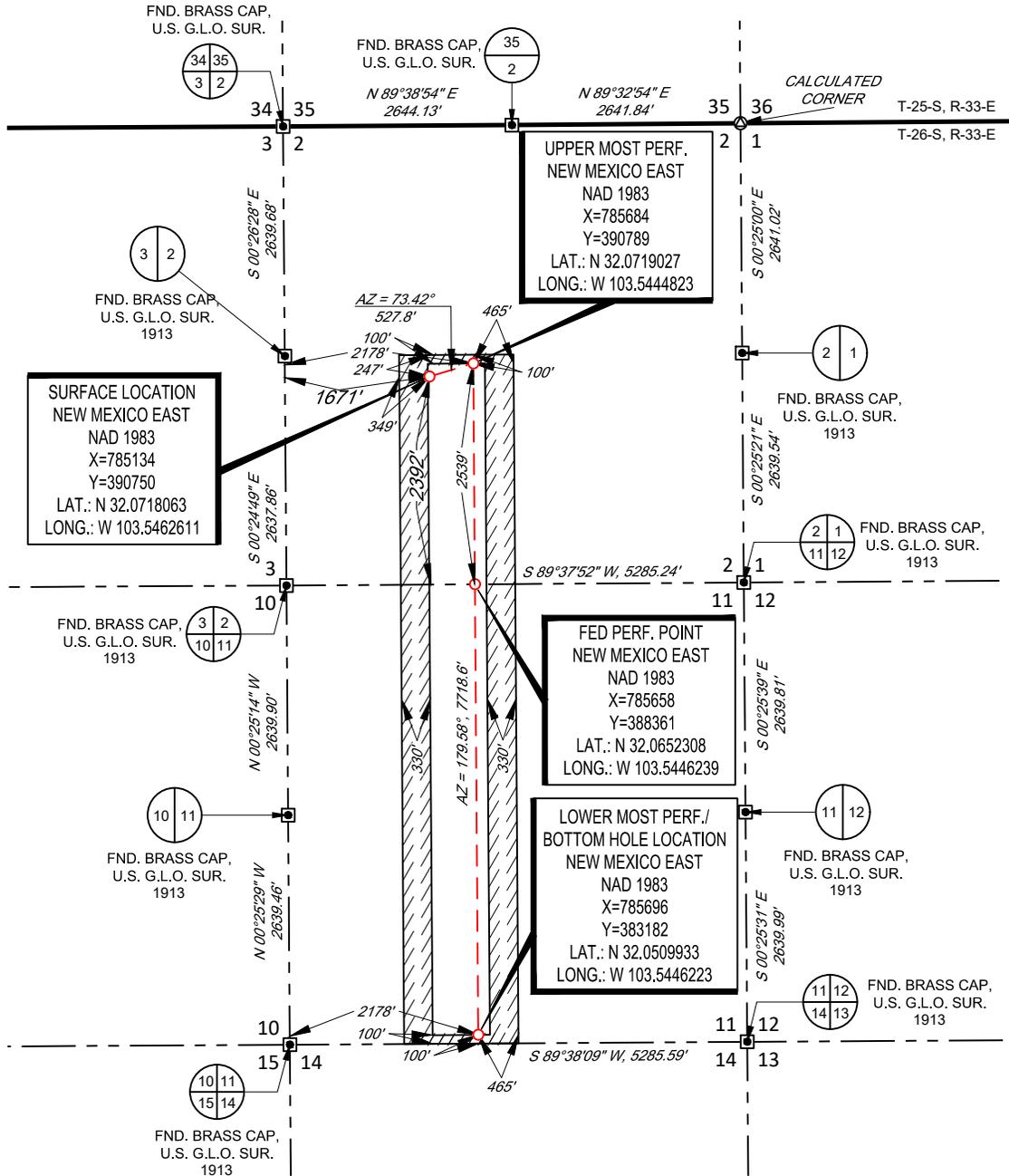
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554  
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743  
WWW.TOPOGRAPHIC.COM

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

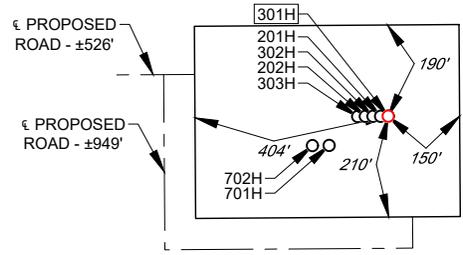


EXHIBIT 2A

SECTION 2, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M. LEA COUNTY, NEW MEXICO



SCALE: 1" = 2000'  
0' 1000' 2000'



DETAIL VIEW  
SCALE: 1" = 400'

LEASE NAME & WELL NO.: CALM BREEZE 2 FED COM 301H  
SECTION 2 TWP 26-S RGE 33-E SURVEY N.M.P.M.  
COUNTY LEA STATE NM  
DESCRIPTION 2392' FSL & 1671' FWL

DISTANCE & DIRECTION  
FROM INT. OF NM-128, & J-1/ORLA RD., GO SOUTH ON J-1/ORLA RD. ±10.5 MILES. THENCE EAST (LEFT) ON PIPELINE RD. ±7.1 MILES. THENCE EAST (LEFT) ON BATTLE AXE RD. ±0.2 MILES, THENCE NORTH (LEFT) ON A LEASE RD. ±0.5 MILES, THENCE WEST (RIGHT) ON A PROPOSED RD. ±949 FEET TO A POINT ±216 FEET SOUTHEAST 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.



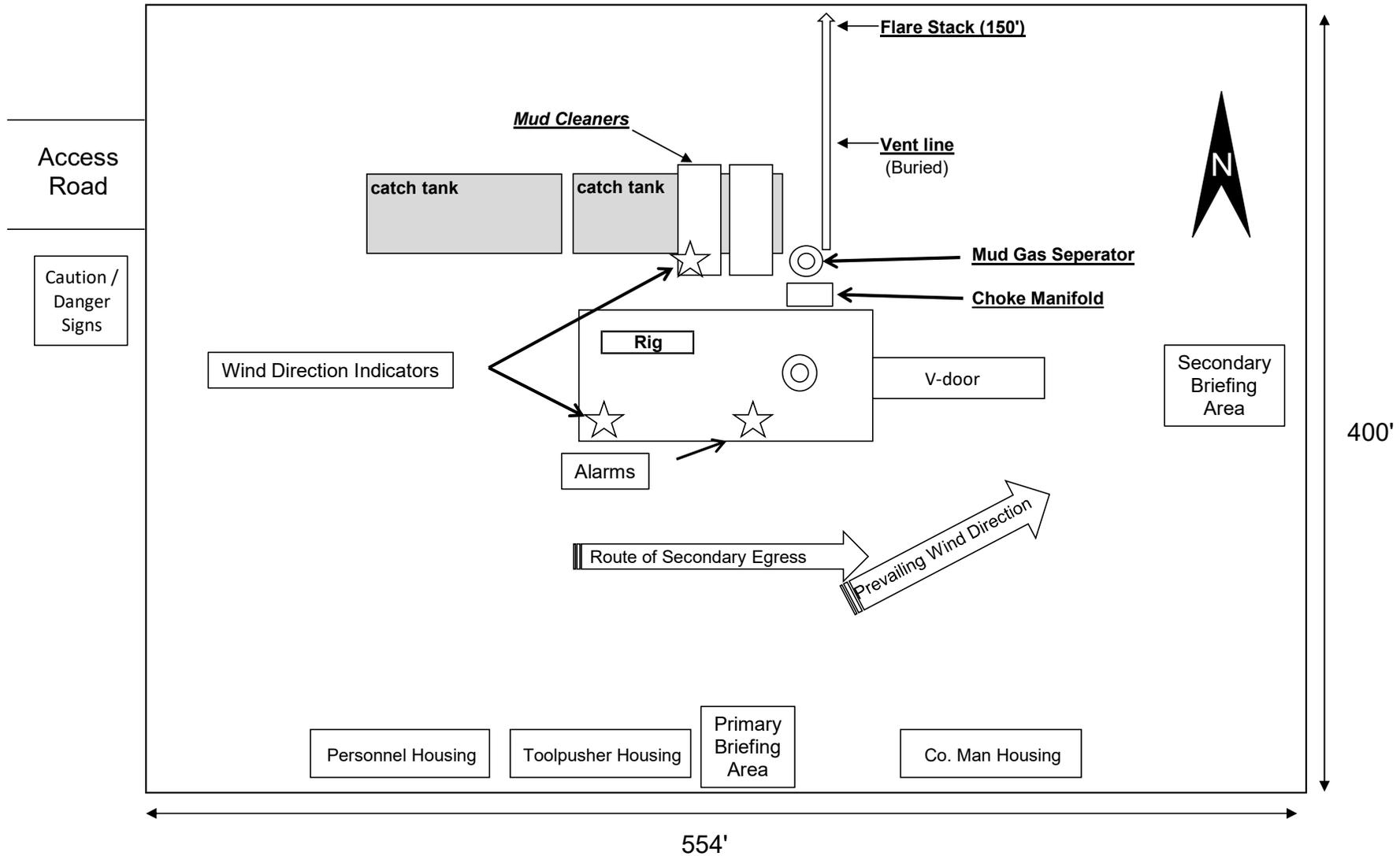
Ramon A. Dominguez, P.S. No. 24508  
June 1, 2021



1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
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  
WWW.TOPOGRAPHIC.COM

Exhibit 4  
EOG Resources  
Calm Breeze 2 Fed Com #301H

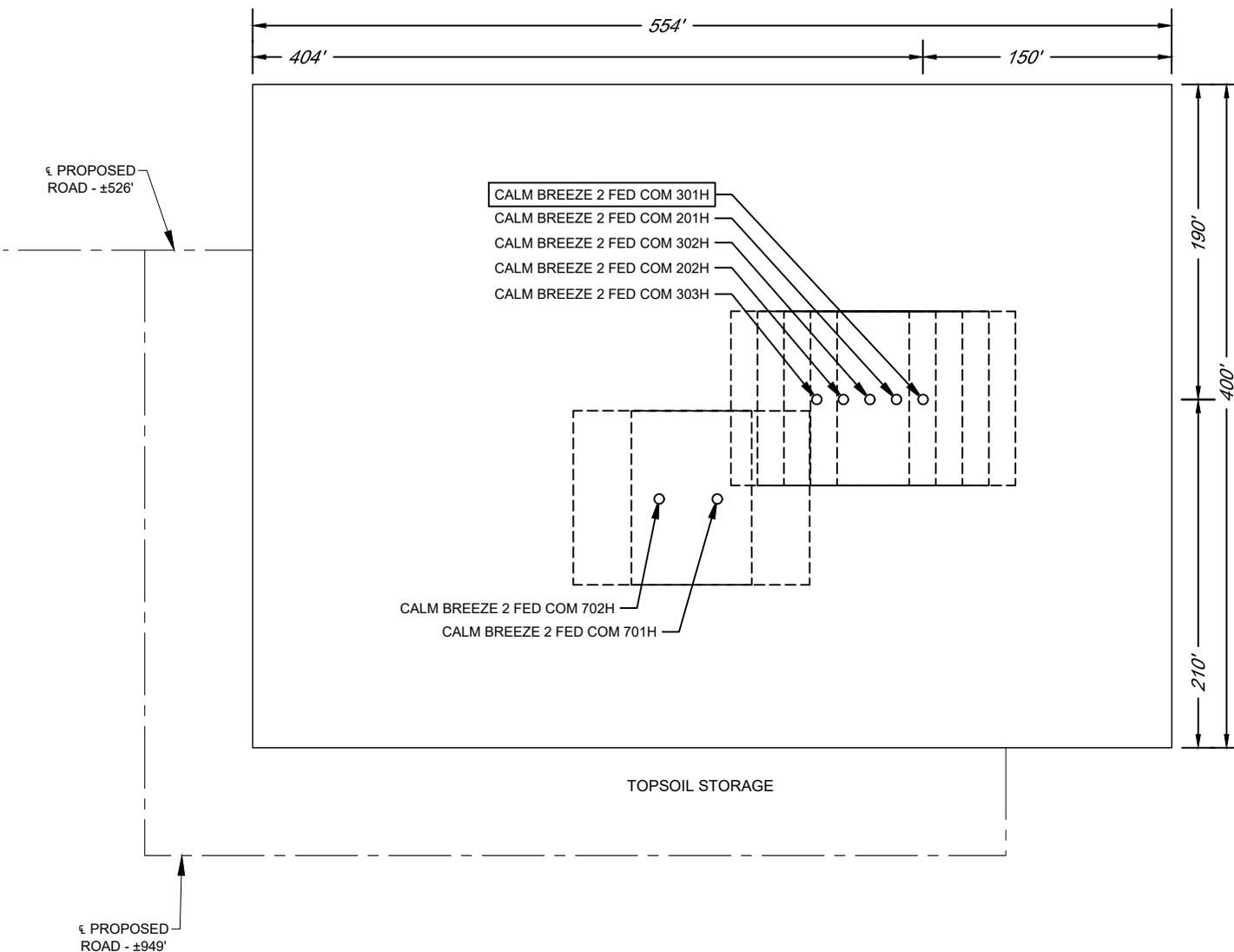
Well Site Diagram



# EXHIBIT 2C RECLAMATION AND FACILITY DIAGRAM - PRODUCTION FACILITIES DIAGRAM

SECTION 2, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

DETAIL VIEW  
SCALE: 1" = 100'



LEASE NAME & WELL NO.: CALM BREEZE 2 FED COM 301H  
 301H LATITUDE N 32.0718063      301H LONGITUDE W 103.5462611

---

---

EOG Resources, Inc.  
CALM BREEZE 2 FED COM 301H

SHL: 2392 FSL & 1671 FWL, Section: 2, T.26S., R.33E.  
BHL: 100 FSL & 2178 FWL, Section: 11, T.26S., R.33E.

---

---

## 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 CALM BREEZE 2 FED COM 301H 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. An access road will be needed for this proposed project. See the survey plat for the location of the access road.
- b. The length of access road needed to be constructed for this proposed project is about 1293 feet.
- c. The maximum driving width of the access road will be 30 feet. The maximum width of surface disturbance when constructing the access road will not exceed 25 feet. All areas outside of the driving surface will be revegetated.
- d. The access road will be constructed with 6 inches of compacted CALICHE.
- e. The proposed access road will be constructed to BLM Gold Book standards and/or BLM CFO specifications.
- f. The access road will be constructed with a ditch on each side of the road.
- g. The maximum grade for the access road will be 6 percent.
- h. No turnouts will be constructed on the proposed access road.
- i. No cattleguards will be installed for this proposed access road.

---

---

EOG Resources, Inc.

SHL: 2392 FSL &amp; 1671 FWL, Section: 2, T.26S., R.33E.

CALM BREEZE 2 FED COM 301H

BHL: 100 FSL & 2178 FWL, Section: 11, T.26S., R.33E.

---

---

- j. No BLM right-of-way grant is needed for the construction of this access road.
- k. An appropriately sized culvert will be installed where drainages cross the access road. The culvert(s) will be no less than 18 inches in diameter and covered with no less than 12 inches of surfacing material. Each culvert will be marked with reflectors attached to T-Posts on both sides of the road. The uphill and downhill opening of the culvert will have rip-rap (cobble stone) extending 3 feet out and 12 inches deep to slow water flow entering and exiting the culvert. Standards in the BLM Gold Book will be used. The culvert will be maintained in its original condition throughout the life of the road. See survey plat for location of culvert(s).
- l. No low water crossings will be constructed for the access road.
- m. Since the access road is on level ground, no lead-off ditches will be constructed for the proposed access road.
- n. Newly constructed or reconstructed roads, on surface under the jurisdiction of the Bureau of Land Management, 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.

### 3. Location of Existing Wells

- a. CALM BREEZE 2 FED COM 301H 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 CALM BREEZE 2 FED COM CTB. The location of the facility is as follows: SECTION 2, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M..
- d. A pipeline to transport production will be installed from the proposed well to the existing production facility.
  - i. We plan to install a 6 inch buried FLEXPIPE/FLEXSTEEL pipeline from the proposed well to the offsite production facility. The proposed length of the pipeline will be 594 feet. The working pressure of the pipeline will be about 1440 psi. A 30 feet wide work area will be needed to install the buried pipeline. In areas where blading is allowed, topsoil will be stockpiled and separated from the excavated trench mineral material. Final reclamation procedures will match the procedures in Plans for Surface Reclamation. When the excavated soil is backfilled, it will be compacted to prevent subsidence. No berm over the pipeline will be evident.
  - ii. CALM BREEZE 2 FED COM INFRASTRUCTURE MAP/SKETCH depicts the proposed production pipeline route from the well to the existing production facility.
  - iii. The proposed pipeline does not cross lease boundaries, so a right of way grant will not need to be acquired from the BLM.

EOG Resources, Inc.  
CALM BREEZE 2 FED COM 301H

SHL: 2392 FSL & 1671 FWL, Section: 2, T.26S., R.33E.  
BHL: 100 FSL & 2178 FWL, Section: 11, T.26S., R.33E.

**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.**

### 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 six 4 inch polyethylene or layflat lines and up to six 12 inch layflat lines to transport fresh water Freshwater is defined as containing less than 10\_000 mg\_I Total Dissolved Solids (TDS)\_ exhibiting no petroleum sheen when standing\_ and not previously used in mechanical processes that expose it to heavy metals or other potential toxins

EOG plans to utilize up to six 4 inch polyethylene or layflat lines and up to six 12 inch layflat lines to transport treated produced water is defined as the reconditioning of produced water to a reusable form and may include mechanical and chemical processes

McCloy Freshwater Pit is in Section 36\_ Township 25\_ Range 33E\_ Lea County\_ New Mexico

Lomas Reuse Pit is in Section 26\_ Township 25\_ Range 33E\_ 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. CALM BREEZE 2 FED COM WATER AND CALICHE MAP depicts the proposed route for a 12 inch POLY OR 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 will be used within the proposed well site dimensions 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

---

EOG Resources, Inc.  
CALM BREEZE 2 FED COM 301H

---

SHL: 2392 FSL & 1671 FWL, Section: 2, T.26S., R.33E.  
BHL: 100 FSL & 2178 FWL, Section: 11, T.26S., R.33E.

---

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:
  - i. reasonable scale (near 1":50')
  - ii. well pad dimensions
  - iii. well pad orientation
  - iv. drilling rig components
  - v. proposed access road
  - vi. elevations of all points
  - vii. topsoil stockpile
  - viii. reserve pit location/dimensions if applicable
  - ix. other disturbances needed (flare pit, stinger, frac farm pad, etc.)
  - x. existing structures within the 600' x 600' archaeological surveyed area (pipelines, electric lines, well pads, etc)
- b. 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.
- c. The submitted survey plat does depict all the necessary information required by Onshore Order No. 1.
- d. Topsoil Salvaging
  - i. Grass, forbs, and small woody vegetation, such as mesquite will be excavated as the topsoil is removed.

---

---

EOG Resources, Inc.  
CALM BREEZE 2 FED COM 301H

SHL: 2392 FSL & 1671 FWL, Section: 2, T.26S., R.33E.  
BHL: 100 FSL & 2178 FWL, Section: 11, T.26S., R.33E.

---

---

Large woody vegetation will be stripped and stored separately and respread evenly on the site following topsoil resspreading. 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. CALM BREEZE 2 FED COM 301H 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

EOG Resources, Inc.  
CALM BREEZE 2 FED COM 301H

SHL: 2392 FSL & 1671 FWL, Section: 2, T.26S., R.33E.  
BHL: 100 FSL & 2178 FWL, Section: 11, T.26S., R.33E.

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 STATE.

## **12. Other Information**

- a. \*\*\* An onsite meeting was conducted on 4/13/21 and field on 5/11/2021 \*\*\*

We plan to use (6) 12-inch lay flat hoses to transport water and (6) 4-inch polylines or layflay for drilling and frac operations.

Regulatory will list all proposed pipelines.

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.

## **13. Maps and Diagrams**

CALM BREEZE 2 FED COM 301H VICINITY - Existing Road

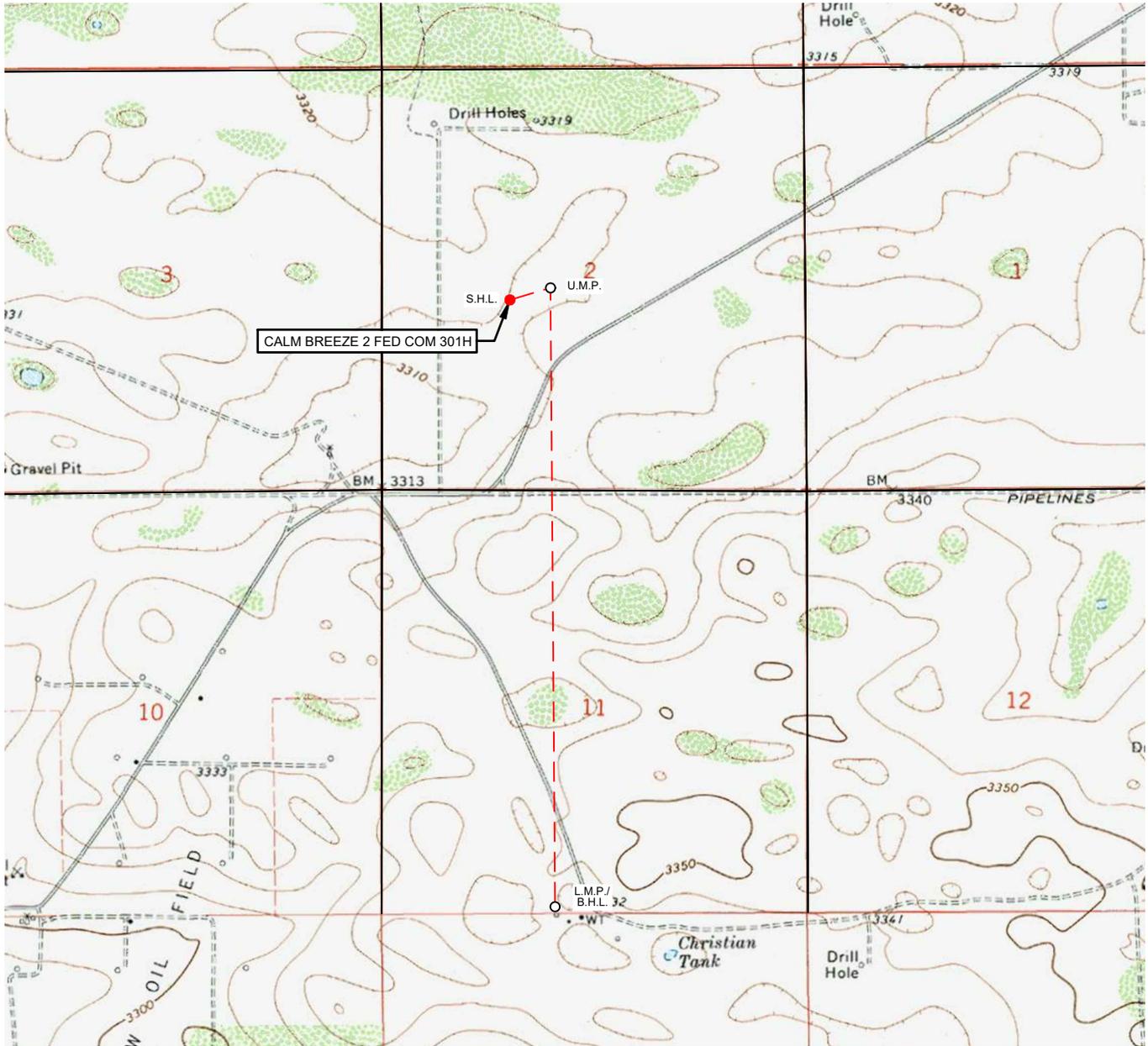
CALM BREEZE 2 FED COM 301H RADIUS - Wells Within One Mile

CALM BREEZE 2 FED COM INFRASTRUCTURE MAP/SKETCH - Production Pipeline

CALM BREEZE 2 FED COM WATER AND CALICHE MAP - Drilling Water Pipeline

CALM BREEZE 2 FED COM 301H RECLAMATION - Interim Reclamation

# LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: CALM BREEZE 2 FED COM 301H

SECTION 2 TWP 26-S RGE 33-E SURVEY N.M.P.M.  
 COUNTY LEA STATE NM ELEVATION 3321'  
 DESCRIPTION 2392' FSL & 1671' FWL

LATITUDE N 32.0718063 LONGITUDE W 103.5462611



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.



1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
 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  
 WWW.TOPOGRAPHIC.COM



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

# PWD Data Report

12/31/2025

**APD ID:** 10400091395

**Submission Date:** 03/29/2023

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**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:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**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:**

**Describe 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:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**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:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**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**



# Bond Info Data

12/31/2025

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

**APD ID:** 10400091395

**Submission Date:** 03/29/2023

Highlighted data reflects the most recent changes  
[Show Final Text](#)

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** CALM BREEZE 2 FED COM

**Well Number:** 301H

**Well Type:** OIL WELL

**Well Work Type:** Drill

## Bond

**Federal/Indian APD:** FED

**BLM Bond number:** NM2308

**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:**

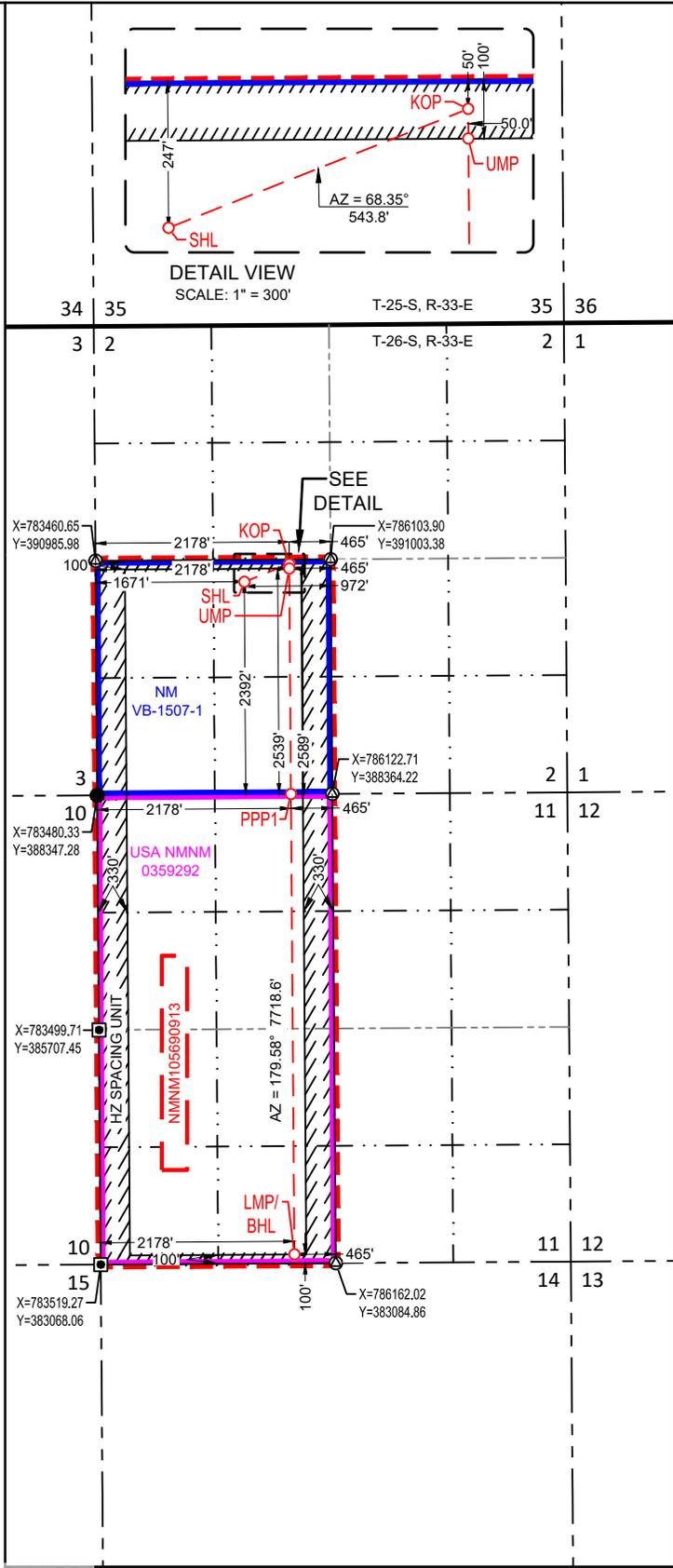


<p><b>C-102</b></p> <p>Submit Electronically Via OCD Permitting</p>	<p>State of New Mexico Energy, Minerals &amp; Natural Resources Department <b>OIL CONSERVATION DIVISION</b></p>	<p>Revised July 9, 2024</p>		
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; vertical-align: top;"> <p>Submittal Type:</p> </td> <td style="width:85%;"> <input checked="" type="checkbox"/> Initial Submittal  <input type="checkbox"/> Amended Report  <input type="checkbox"/> As Drilled                 </td> </tr> </table>	<p>Submittal Type:</p>	<input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled
<p>Submittal Type:</p>	<input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled			
<p>Property Name and Well Number</p> <p style="text-align: center;"><b>CALM BREEZE 2 FED COM 301H</b></p>				

**SURFACE LOCATION (SHL)**  
 NEW MEXICO EAST  
 NAD 1983  
 X=785134 Y=390750  
 LAT.: N 32.0718063  
 LONG.: W 103.5462611  
 NAD 1927  
 X=743947 Y=390692  
 LAT.: N 32.0716809  
 LONG.: W 103.5457928  
 2392' FSL 1671' FWL

**KICK OFF POINT (KOP)**  
 NEW MEXICO EAST  
 NAD 1983  
 X=785639 Y=390950  
 LAT.: N 32.0723476  
 LONG.: W 103.5446247  
 NAD 1927  
 X=744452 Y=390893  
 LAT.: N 32.0722222  
 LONG.: W 103.5441565  
 2589' FSL 2178' FWL

**UPPER MOST PERF. (UMP)**  
 NEW MEXICO EAST  
 NAD 1983  
 X=785639 Y=390900  
 LAT.: N 32.0722102  
 LONG.: W 103.5446247  
 NAD 1927  
 X=744452 Y=390843  
 LAT.: N 32.0720848  
 LONG.: W 103.5441565  
 2539' FSL 2178' FWL



**PROPOSED PERF. POINT (PPP1)**  
 NEW MEXICO EAST  
 NAD 1983  
 X=785658 Y=388361  
 LAT.: N 32.0652306  
 LONG.: W 103.5446239  
 NAD 1927  
 X=744471 Y=388304  
 LAT.: N 32.0651051  
 LONG.: W 103.5441560  
 0' FSL 2178' FWL

**LOWER MOST PERF. (LMP) BOTTOM HOLE LOCATION (BHL)**  
 NEW MEXICO EAST  
 NAD 1983  
 X=785696 Y=383182  
 LAT.: N 32.0509933  
 LONG.: W 103.5446223  
 NAD 1927  
 X=744509 Y=383125  
 LAT.: N 32.0508676  
 LONG.: W 103.5441551  
 100' FSL 2178' 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.  
 05/07/2021  
 Date of Survey  
 Signature and Seal of Professional Surveyor:

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:** 12/31/2025

**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
CALM BREEZE 2 FED COM 301H		K-2-26S-33E	2392' FSL & 1671' FWL	+/- 1000	+/- 3500	+/- 3000

**IV. Central Delivery Point Name:** CALM BREEZE 2 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
CALM BREEZE 2 FED COM 301H		03/01/2026	04/15/26	05/01/26	08/01/26	09/01/26

**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:
Printed Name: KAYLA MCCONNELL
Title: Regulatory Specialist
E-mail Address: Kayla_mcconnell@eogresources.com
Date: 12/31/2025
Phone: (432) 265-6804
<b>OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)</b>
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 will 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

Action 539166

**ACKNOWLEDGMENTS**

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 539166
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
-------------------------------------	--

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**

COMMENTS

Action 539166

**COMMENTS**

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 539166
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**COMMENTS**

Created By	Comment	Comment Date
jeffrey.harrison	Infill to 30-025-55829 CALM BREEZE 2 FEDERAL COM #302H	1/21/2026

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/oecd/contact-us>

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

CONDITIONS

Action 539166

**CONDITIONS**

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 539166
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**CONDITIONS**

Created By	Condition	Condition Date
kayla_mcconnell	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/31/2025
kayla_mcconnell	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/31/2025
jeffrey.harrison	Cement must be in place for at least 8 hours and achieve a minimum compressive strength of 500 psi before performing further operations on the well.	1/21/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/21/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	1/21/2026
jeffrey.harrison	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.	1/21/2026
jeffrey.harrison	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.	1/21/2026