

<b>Well Name:</b> GATO GRANDE 9-4 FED COM	<b>Well Location:</b> T23S / R32E / SEC 9 / SESW / 32.3129558 / -103.6837667	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 121H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM98192	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002551312	<b>Operator:</b> DEVON ENERGY PRODUCTION COMPANY LP	

**Notice of Intent**

**Sundry ID:** 2885349

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 12/10/2025

**Time Sundry Submitted:** 01:43

**Date proposed operation will begin:** 12/18/2025

**Procedure Description:** DEVON ENERGY PRODUCTION COMPANY LP (Devon) respectfully requests to make the following changes to the subject well. Attached are the updated well plat and drilling plan. Old Name: Gato Grande 9-4 Fed Com 121H New Name: Gato Grande 9 4 Fed Com 511H Old SHL: 400 FSL and 1360 FWL SWSE Section 9-23S-32E New SHL: 395 FSL and 1189 FWL SWSW Section 9-23S-32E Old BHL: 20 FNL and 660 FWL Lot 4 Section 4-23-23E New BHL: 20 FNL and 330 FWL Lot 4 Section 4-23S-32E Old Formation: 2BSLT New Formation: Avalon

**NOI Attachments**

**Procedure Description**

- AA000487613\_GATO\_GRANDE\_9\_WP\_1\_R5\_20251210134328.pdf
- 5.5\_20lb\_P110HP\_CDC\_HTQ\_20251210134026.pdf
- 8.6250\_32.0000\_0.3520\_\_P110\_HP\_TALON\_RD\_20251210134005.pdf
- 13.375\_54.5lb\_J55\_20251210133935.pdf
- GATO\_GRANDE\_9\_4\_FED\_COM\_511H\_Directional\_Plan\_12\_03\_25\_20251204145634.pdf
- GATO\_GRANDE\_9\_4\_FED\_COM\_511H\_12\_03\_2025\_20251204145632.pdf
- WA018132093\_GATO\_GRANDE\_9\_4\_FED\_COM\_511H\_R2\_\_\_Signed\_20251204144219.pdf

**Well Name:** GATO GRANDE 9-4 FED COM

**Well Location:** T23S / R32E / SEC 9 / SESW / 32.3129558 / -103.6837667

**County or Parish/State:** LEA / NM

**Well Number:** 121H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:**

**Lease Number:** NMNM98192

**Unit or CA Name:**

**Unit or CA Number:**

**US Well Number:** 3002551312

**Operator:** DEVON ENERGY PRODUCTION COMPANY LP

**Conditions of Approval**

**Additional**

Gato\_Grande\_9\_4\_Fed\_Com\_20260122140402.pdf

9\_23\_32\_N\_Sundry\_ID\_2885349\_Gato\_Grande\_9\_4\_Fed\_Com\_511H\_20260122140402.pdf

**Operator**

*I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a*

**Operator Electronic Signature:** LAUREN WATSON

**Signed on:** DEC 10, 2025 01:43 PM

**Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Title:** Regulatory Compliance Professional

**Street Address:** 333 W. SHERIDAN AVE.

**City:** OKLAHOMA CITY **State:** OK

**Phone:** (405) 552-3379

**Email address:** LAUREN.WATSON@DVN.COM

**Field**

**Representative Name:**

**Street Address:**

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

**Phone:**

**Email address:**

**BLM Point of Contact**

**BLM POC Name:** CHRISTOPHER WALLS

**BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5752342234

**BLM POC Email Address:** CWALLS@BLM.GOV

**Disposition:** Approved

**Disposition Date:** 01/30/2026

**Signature:** Chris Walls

Form 3160-5  
(October 2024)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

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

1. Type of Well

Oil Well     Gas Well     Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. (include area code)

10. Field and Pool or Exploratory Area

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)

11. Country or Parish, State

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

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

(Instructions on page 2)

## GENERAL INSTRUCTIONS

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

## SPECIFIC INSTRUCTIONS

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

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

## NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

**Additional Information**

**Additional Remarks**

Old Formation: 2BSLT

New Formation: Avalon

**Location of Well**

0. SHL: SESW / 400 FSL / 1360 FWL / TWSP: 23S / RANGE: 32E / SECTION: 9 / LAT: 32.3129558 / LONG: -103.6837667 ( TVD: 0 feet, MD: 0 feet )

PPP: SWSW / 100 FSL / 660 FWL / TWSP: 23S / RANGE: 32E / SECTION: 9 / LAT: 32.3121237 / LONG: -103.6860316 ( TVD: 10070 feet, MD: 10247 feet )

BHL: LOT 4 / 20 FNL / 660 FWL / TWSP: 23S / RANGE: 32E / SECTION: 4 / LAT: 32.3407748 / LONG: -103.6860513 ( TVD: 10140 feet, MD: 20437 feet )

CONFIDENTIAL

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Devon Energy Production Company LP
<b>LOCATION:</b>	Section 9, T.23 S., R.32 E., NMPM
<b>COUNTY:</b>	Lea County, New Mexico

<b>WELL NAME &amp; NO.:</b>	Gato Grande 9 4 Fed Com 511H
<b>ATS/API ID:</b>	3002551312
<b>APD ID:</b>	10400064399
<b>Sundry ID:</b>	285349

<b>WELL NAME &amp; NO.:</b>	Gato Grande 9 4 Fed Com 513H
<b>ATS/API ID:</b>	3002551313
<b>APD ID:</b>	10400064631
<b>Sundry ID:</b>	2885712

<b>WELL NAME &amp; NO.:</b>	Gato Grande 9 4 Fed Com 514H
<b>ATS/API ID:</b>	3002551314
<b>APD ID:</b>	10400064635
<b>Sundry ID:</b>	2885730

<b>WELL NAME &amp; NO.:</b>	Gato Grande 9 4 Fed Com 521H
<b>ATS/API ID:</b>	3002551315
<b>APD ID:</b>	10400064279
<b>Sundry ID:</b>	2884973

<b>WELL NAME &amp; NO.:</b>	Gato Grande 9 4 Fed Com 522H
<b>ATS/API ID:</b>	3002551316
<b>APD ID:</b>	10400064596
<b>Sundry ID:</b>	2884978

<b>WELL NAME &amp; NO.:</b>	Gato Grande 9 4 Fed Com 524H
<b>ATS/API ID:</b>	3002551318
<b>APD ID:</b>	10400064624
<b>Sundry ID:</b>	2885724

<b>WELL NAME &amp; NO.:</b>	Gato Grande 9 4 Fed Com 525H
<b>ATS/API ID:</b>	3002551319
<b>APD ID:</b>	10400064532
<b>Sundry ID:</b>	2885737

<b>WELL NAME &amp; NO.:</b>	<b>Gato Grande 9 4 Fed Com 526H</b>
<b>ATS/API ID:</b>	<b>3002551310</b>
<b>APD ID:</b>	<b>10400064644</b>
<b>Sundry ID:</b>	<b>2885383</b>

COA

H2S	Yes		
Potash	None	None	
Cave/Karst Potential	Low		
Cave/Karst Potential	<input type="checkbox"/> Critical		
Variance	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Other
Wellhead	Conventional and Multibowl		
Other	<input type="checkbox"/> 4 String <input type="checkbox"/> 5 String	Capitan Reef None	<input type="checkbox"/> WIPP
Other	Pilot Hole None	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Int 1	Primary Cement Squeeze None
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry	Waste Prevention None	
Special Requirements Variance	<input type="checkbox"/> BOPE Break Testing <input type="checkbox"/> Offline BOPE Testing	<input type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

## A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H<sub>2</sub>S) Drilling Plan shall be activated 500 feet prior to drilling into the **Cherry Canyon** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** 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

1. The **13-3/8** inch surface casing shall be set at approximately **1261 feet** (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.
  - 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.

**Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.**

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

### Option 1 (Single Stage):

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

### Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon at 6915'**.
- b. Second stage:
  - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. (**Squeeze 1045 sxs Class C**)

Operator has proposed to pump down **13-3/8" X 8-5/8"** annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the **8-5/8"** casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

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

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

3. 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. **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

### 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.

#### Option 1:

- a. 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**.

- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **8-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

### **Option 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.

- 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 43 CFR 3172.6(b)(9) must be followed.

## **D. SPECIAL REQUIREMENT (S)**

### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

## 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)

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,  
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - 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.
    - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

### 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. Acceptable Method of Cement Verifications:
  - a. Observing cement circulated to surface.
  - b. Cement bond log (CBL).
  - c. Temperature log within 8-10 hours after completing the cement job.
  - d. Echometer (if a second-stage bradenhead squeeze is being used).
5. 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.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. 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.
8. 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.
9. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-

off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
  - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 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).
  - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
  - e. The results of the test shall be reported to the appropriate BLM office.
  - f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
  - g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
  - h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.
- C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Long Vo (LVO) 1/22/2026

Gato Grande 9 4 Fed Com 511H

13 3/8		surface csg in a		17 1/2		inch hole.		Design Factors				Surface																					
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight																						
"A"	54.50		j 55	btc	12.42	1.92	1,261	5	0.96	3.62	68,725																						
"B"				btc			0				0																						
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,361							Totals:	1,261			68,725																						
Comparison of Proposed to Minimum Required Cement Volumes. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Hole Size</th> <th>Annular Volume</th> <th>1 Stage Cmt Sx</th> <th>1 Stage CuFt Cmt</th> <th>Min Cu Ft</th> <th>1 Stage % Excess</th> <th>Drilling Mud Wt</th> <th>Calc MASP</th> <th>Req'd BOPE</th> <th>Min Dist Hole-Cplg</th> </tr> </thead> <tbody> <tr> <td>17 1/2</td> <td>0.6946</td> <td>928</td> <td>1336</td> <td>876</td> <td>53</td> <td>9.00</td> <td>2838</td> <td>3M</td> <td>1.56</td> </tr> </tbody> </table>														Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg	17 1/2	0.6946	928	1336	876	53	9.00	2838	3M	1.56
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg																								
17 1/2	0.6946	928	1336	876	53	9.00	2838	3M	1.56																								
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.																																	

8 5/8		casing inside the		13 3/8		Design Factors				Int 1																							
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight																						
"A"	32.00		p 110	uss talon htq	4.10	0.95	8,721	2	3.89	1.60	279,072																						
"B"							0				0																						
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	8,721			279,072																						
The cement volume(s) are intended to achieve a top of 0 ft from surface or a 1261 overlap. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Hole Size</th> <th>Annular Volume</th> <th>1 Stage Cmt Sx</th> <th>1 Stage CuFt Cmt</th> <th>Min Cu Ft</th> <th>1 Stage % Excess</th> <th>Drilling Mud Wt</th> <th>Calc MASP</th> <th>Req'd BOPE</th> <th>Min Dist Hole-Cplg</th> </tr> </thead> <tbody> <tr> <td>9 7/8</td> <td>0.1261</td> <td>669</td> <td>1809</td> <td>1524</td> <td>19</td> <td>10.50</td> <td>2293</td> <td>3M</td> <td>0.44</td> </tr> </tbody> </table>														Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg	9 7/8	0.1261	669	1809	1524	19	10.50	2293	3M	0.44
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg																								
9 7/8	0.1261	669	1809	1524	19	10.50	2293	3M	0.44																								
D V Tool(s): 6915 sum of sx 1719 z CuFt 3321 Σ%excess 118 t by stage % : 694 17 Class 'C' tail cmt yld > 1.35																																	

5 1/2		casing inside the		8 5/8		Design Factors				Prod 1																							
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight																						
"A"	20.00		p 110	cdc-htq	3.46	2.82	19,621	3	5.51	5.32	392,420																						
"B"							0				0																						
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,038							Totals:	19,621			392,420																						
The cement volume(s) are intended to achieve a top of 8521 ft from surface or a 200 overlap. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Hole Size</th> <th>Annular Volume</th> <th>1 Stage Cmt Sx</th> <th>1 Stage CuFt Cmt</th> <th>Min Cu Ft</th> <th>1 Stage % Excess</th> <th>Drilling Mud Wt</th> <th>Calc MASP</th> <th>Req'd BOPE</th> <th>Min Dist Hole-Cplg</th> </tr> </thead> <tbody> <tr> <td>7 7/8</td> <td>0.1733</td> <td>1464</td> <td>2172</td> <td>1924</td> <td>13</td> <td>9.00</td> <td></td> <td></td> <td>0.79</td> </tr> </tbody> </table>														Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg	7 7/8	0.1733	1464	2172	1924	13	9.00			0.79
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg																								
7 7/8	0.1733	1464	2172	1924	13	9.00			0.79																								
Class 'C' tail cmt yld > 1.35																																	

#N/A		5 1/2		Design Factors				<Choose Casing>																									
Segment	#/ft	Grade	Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight																						
"A"			0.00				0				0																						
"B"			0.00				0				0																						
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	0			0																						
Cmt vol calc below includes this csg, TOC intended #N/A ft from surface or a #N/A overlap. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Hole Size</th> <th>Annular Volume</th> <th>1 Stage Cmt Sx</th> <th>1 Stage CuFt Cmt</th> <th>Min Cu Ft</th> <th>1 Stage % Excess</th> <th>Drilling Mud Wt</th> <th>Calc MASP</th> <th>Req'd BOPE</th> <th>Min Dist Hole-Cplg</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>#N/A</td> <td>#N/A</td> <td>#N/A</td> <td>0</td> <td>#N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>														Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg	0	#N/A	#N/A	#N/A	0	#N/A				
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg																								
0	#N/A	#N/A	#N/A	0	#N/A																												
#N/A Capitan Reef est top XXXX.																																	

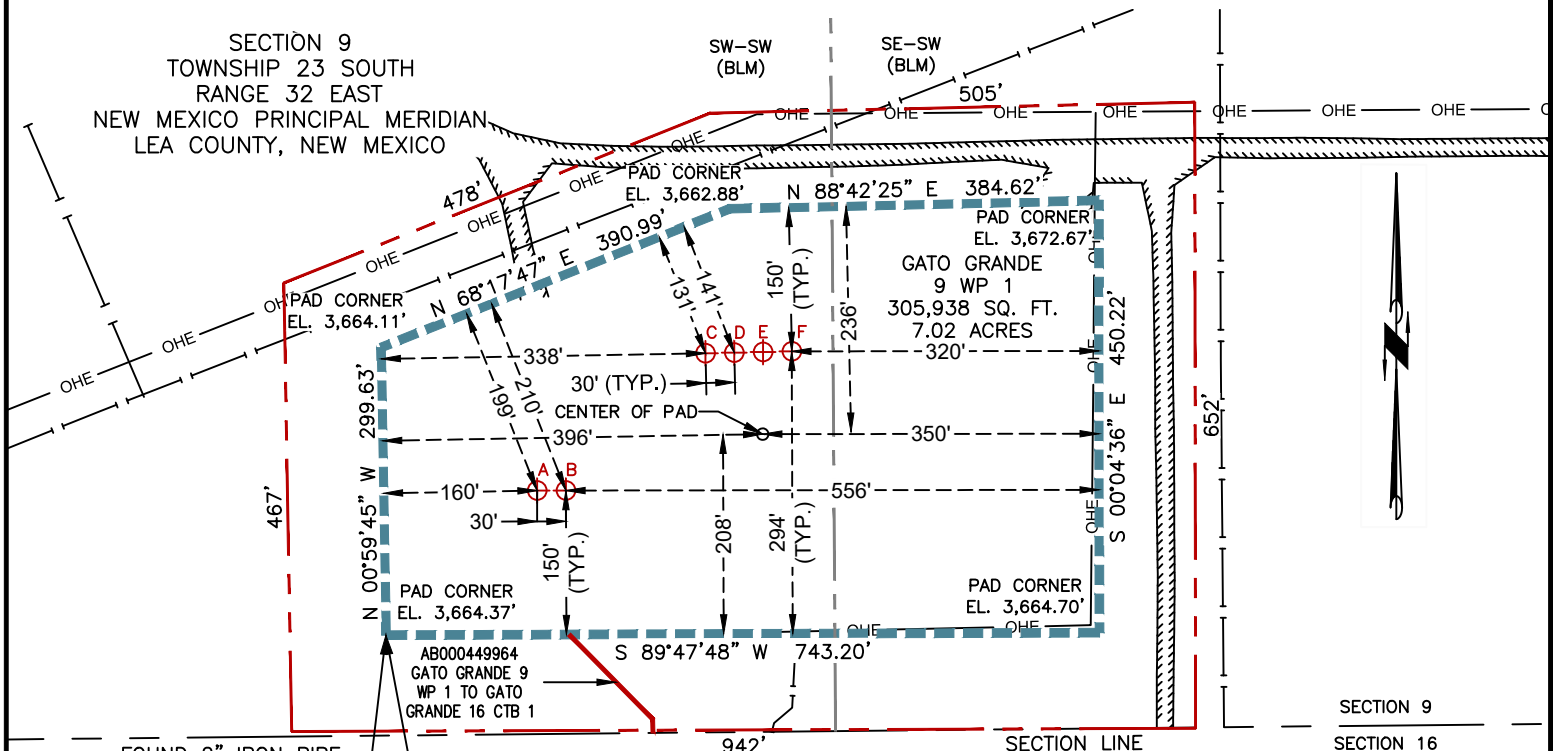


PROPOSED SURFACE SITE EXHIBIT  
GATO GRANDE 9 WP1 R5

UCID# AA000487613

SECTION 9, TOWNSHIP 23 SOUTH, RANGE 32 EAST  
NEW MEXICO PRINCIPAL MERIDIAN  
LEA COUNTY, NEW MEXICO

SECTION 9  
TOWNSHIP 23 SOUTH  
RANGE 32 EAST  
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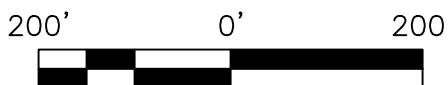
FOUND 2" IRON PIPE  
W/ 2.5" BRASS CAP  
FOR SW CORNER  
OF SEC 9  
BEARS  
S 82°26'26" W  
860.66' (TIE)

POB  
N: 477,893.46'  
E: 741,506.43'

A	GATO GRANDE 9 4 FED COM 830H
B	GATO GRANDE 9 4 FED COM 831H
C	GATO GRANDE 9 4 FED COM 511H
D	GATO GRANDE 9 4 FED COM 521H
E	GATO GRANDE 9 4 FED COM 512H
F	GATO GRANDE 9 4 FED COM 522H

TOTAL SURFACE SITE ACREAGE BREAKDOWN BY SECTION 1/4 1/4			
1/4 1/4	OWNERSHIP	SQ. FEET	ACRES
SW-SW	BLM	182,050	4.18
SE-SW	BLM	123,888	2.84
<b>TOTAL</b>		<b>305,938</b>	<b>7.02</b>

- LEGEND**
- — — — — SURVEY LINES
  - x-x-x-x-x- EXISTING FENCE
  - OHE—OHE— EXISTING ELECTRIC
  - +—+—+—+— FOREIGN PIPELINE
  - ===== EDGE OF PAVEMENT
  - PROPOSED SURFACE SITE
  - PROPOSED FLOWLINE
  - 100' OFFSET BOUNDARY
  - ⊕ PROPOSED SURFACE HOLE LOCATION
  - FOUND MONUMENT
  - CALCULATED CORNER



NOTES:  
1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD83.  
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. 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 KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

DWG: AA000487613\_GATO\_GRANDE\_9\_WP\_1\_R5

DRAWING PATH: P:\Clients - Projects\Devon Energy\24-122788\_Gato Grande 9 4 Unit\Drafting\EXHIBITS\Surface Sites\Surface Site

Drawn: SSK	Date: 10/30/2025	Job: 24-122788	Scale: 1=200'
Checked: MJM	Date: 10/30/2025	REVISION NO. 0	SHEET 1 OF 2



PO BOX 1583, MIDLAND, TEXAS 79701



PROPOSED SURFACE SITE EXHIBIT  
**GATO GRANDE 9 WP1 R5**

UCID# AA000487613

SECTION 9, TOWNSHIP 23 SOUTH, RANGE 32 EAST  
 NEW MEXICO PRINCIPAL MERIDIAN  
 LEA COUNTY, NEW MEXICO

**METES AND BOUNDS DESCRIPTION:**

**BEING** A SURFACE SITE, SITUATED IN **SECTION 9, TOWNSHIP 23 SOUTH, RANGE 32 EAST, NEW MEXICO PRINCIPAL MERIDIAN**, LEA COUNTY, NEW MEXICO;

**BEGINNING** AT A POINT HAVING COORDINATES OF **N: 477,893.46', E: 741,506.43' / LAT: 32.312139°, LONG: -103.685404°, POINT OF BEGINNING (P.O.B.)**, IN SAID SECTION 9, FROM WHICH A FOUND 2-INCH IRON PIPE WITH 2.5-INCH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 9 BEARS S 82°26'26" W A DISTANCE OF 860.66 FEET;

- THENCE** N 00°59'45" W, A DISTANCE OF 299.63 FEET TO A POINT;
- THENCE** N 68°17'47" E, A DISTANCE OF 390.99 FEET TO A POINT;
- THENCE** N 88°42'25" E, A DISTANCE OF 384.62 FEET TO A POINT;
- THENCE** S 00°04'36" E, A DISTANCE OF 450.22 FEET TO A POINT;

**THENCE** S 89°47'48" W, A DISTANCE OF 743.20 FEET TO THE POINT OF BEGINNING.

SAID SURFACE SITE CONTAINING 305,938 SQUARE FEET OR 7.02 ACRES IN SECTION 9, MORE OR LESS.



NOTES:  
 1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD83.  
 2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. 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 KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

DWG: AA000487613\_GATO\_GRANDE\_9\_WP\_1\_R5

DRAWING PATH: P:\Clients - Projects\Devon Energy\24-122788\_Gato Grande 9 4 Unit\Drafting\EXHIBITS\Surface Sites\Surface Site

Drawn: SSK	Date: 10/30/2025	Job: 24-122788	Scale: N/A	 PO BOX 1583, MIDLAND, TEXAS 79701
Checked: MJM	Date: 10/30/2025	REVISION NO. 0	SHEET 2 OF 2	



# U. S. Steel Tubular Products

5.500" 20.00lb/ft (0.361" Wall) P110 HP USS-CDC HTQ®

2/21/2024 7:47:29 AM



MECHANICAL PROPERTIES	Pipe	USS-CDC HTQ®		--
Minimum Yield Strength	125,000	--	psi	--
Maximum Yield Strength	140,000	--	psi	--
Minimum Tensile Strength	130,000	--	psi	--
DIMENSIONS	Pipe	USS-CDC HTQ®		--
Outside Diameter	5.500	6.300	in.	--
Wall Thickness	0.361	--	in.	--
Inside Diameter	4.778	4.778	in.	--
Standard Drift	4.653	4.653	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	20.00	--	lb/ft	--
Plain End Weight	19.83	--	lb/ft	--
SECTION AREA	Pipe	USS-CDC HTQ®		--
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	97.0	%	--
PERFORMANCE	Pipe	USS-CDC HTQ®		--
Minimum Collapse Pressure	13,150	13,150	psi	--
External Pressure Leak Resistance	--	10,520	psi	--
Minimum Internal Yield Pressure	14,360	14,360	psi	--
Minimum Pipe Body Yield Strength	729,000	--	lb	--
Joint Strength	--	707,000	lb	--
Compression Rating	--	424,000	lb	--
Reference Length	--	23,567	ft	--
Maximum Uniaxial Bend Rating	--	60.6	deg/100 ft	--
MAKE-UP DATA	Pipe	USS-CDC HTQ®		--
Make-Up Loss	--	4.63	in.	--
Minimum Make-Up Torque	--	14,500	ft-lb	--
Maximum Make-Up Torque	--	20,500	ft-lb	--
Connection Yield Torque	--	25,300	ft-lb	--

UNCONTROLLED

## Notes

- Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
- Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
- Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Cal II.

### Legal Notice

USS - CDC HTQ® (High Torque Casing Drilling Connection) is a trademark of U. S. Steel Corporation. This product is a modified API Buttress threaded and coupled connection designed for drilling with casing applications. All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products  
 460 Wildwood Forest Drive, Suite 300S  
 Spring, Texas 77380  
 1-877-893-9461  
 connections@uss.com  
 www.usstubular.com



# U. S. Steel Tubular Products

8/13/2024 10:39:15 AM

## 8.625" 32.00lb/ft (0.352" Wall) P110 HP USS-TALON HTQ™ RD



MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	125,000	--	psi	--
Maximum Yield Strength	140,000	--	psi	--
Minimum Tensile Strength	130,000	--	psi	--
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		--
Outside Diameter	8.625	9.000	in.	--
Wall Thickness	0.352	--	in.	--
Inside Diameter	7.921	7.921	in.	--
Standard Drift	7.796	7.796	in.	--
Alternate Drift	7.796	7.875	in.	--
Nominal Linear Weight, T&C	32.00	--	lb/ft	--
Plain End Weight	31.13	--	lb/ft	--
SECTION AREA	Pipe	USS-TALON HTQ™ RD		--
Critical Area	9.149	9.149	sq. in.	--
Joint Efficiency	--	100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		--
Minimum Collapse Pressure	4,530	4,530	psi	--
Minimum Internal Yield Pressure	8,930	8,930	psi	--
Minimum Pipe Body Yield Strength	1,144,000	--	lb	--
Joint Strength	--	1,144,000	lb	--
Compression Rating	--	1,144,000	lb	--
Reference Length	--	23,830	ft	[5]
Maximum Uniaxial Bend Rating	--	66.4	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		--
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	22,300	ft-lb	[4]
Maximum Make-Up Torque	--	25,300	ft-lb	[4]
Maximum Operating Torque	--	111,500	ft-lb	[4]

UNCONTROLLED

### Notes

- Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- Uniaxial bend rating shown is structural only.
- Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- Coupling must meet minimum mechanical properties of the pipe.

### Legal Notice

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U. S. Steel Tubular Products  
 460 Wildwood Forest Drive, Suite 300S  
 Spring, Texas 77380  
 1-877-893-9461  
 connections@uss.com  
 www.usstubular.com



**13-3/8" 54.50# .380 J-55**

### **Dimensions (Nominal)**

Outside Diameter	13.375	in.
Wall	0.380	in.
Inside Diameter	12.615	in.
Drift	12.459	in.
Weight, T&C	54.500	lbs/ft
Weight, PE	52.790	lbs/ft

### **Performance Ratings, Minimum**

Collapse, PE	1130	psi
Internal Yields Pressure		
PE	2730	psi
STC	2730	PSI
BTC	2730	psi
Yield Strength, Pipe Body	853	1000 lbs
Joint Strength, STC	514	1000 lbs
Joint Strength, BTC	909	1000 lbs

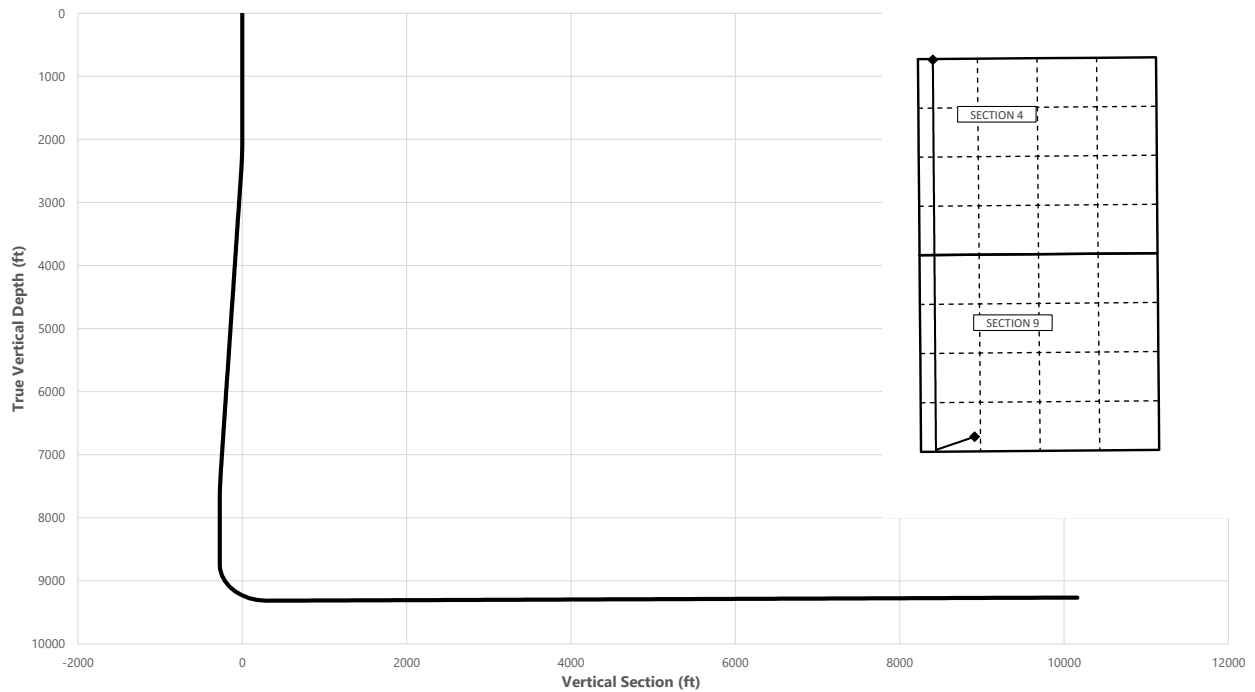
Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.



Well: GATO GRANDE 9-4 FED COM 511H  
 County: Lea  
 Wellbore: Permit Plan  
 Design: Permit Plan #1

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1927  
 Ellipsoid: Clarke 1866  
 Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	247.56	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	247.56	2497.47	-16.61	-40.23	-12.88	2.00	Hold Tangent
7333.76	10.00	247.56	7257.79	-337.02	-816.04	-261.27	0.00	Drop to Vertical
7833.76	0.00	247.56	7755.25	-353.63	-856.27	-274.15	2.00	Hold Vertical
8820.55	0.00	359.62	8742.05	-353.63	-856.27	-274.15	0.00	KOP
9723.45	90.29	359.62	9315.00	222.21	-860.09	299.64	10.00	Landing Point
19620.95	90.29	359.62	9265.00	10119.37	-925.73	10161.63	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	1160.00	1160.00
Salt	1454.00	1454.00
Base of Salt	4598.41	4564.00
Delaware	4857.35	4819.00
Cherry Canyon	6022.04	5966.00
Brushy Canyon	6985.68	6915.00
Avalon / Point of Penetration	8718.50	8640.00
exit	19540.95	9265.42

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.3128	-103.6844	395' FSL, 1189' FWL of Sec 9 in T23S, R32E
KOP	8820.55	8742.05	32.3119	-103.6872	50' FSL, 330' FWL of Sec 9 in T23S, R32E
Point of Penetration	8718.50	8640.00	32.3121	-103.6871	100' FSL, 330' FWL of Sec 9 in T23S, R32E
Exit	19540.95	9265.42	32.3406	-103.6871	100' FNL, 330' FWL of Sec 4 in T23S, R32E
BHL	19620.95	9265.00	32.3407	-103.6872	20' FNL, 330' FWL of Sec 4 in T23S, R32E

	Y	X	MD
KOP	477833	740983	8820.55



Well: GATO GRANDE 9-4 FED COM 511H  
 County: Lea  
 Wellbore: Permit Plan  
 Design: Permit Plan #1

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1927  
 Ellipsoid: Clarke 1866  
 Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	247.56	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	247.56	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	247.56	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	247.56	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	247.56	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	247.56	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	247.56	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	247.56	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	247.56	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	247.56	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	247.56	1100.00	0.00	0.00	0.00	0.00	
1160.00	0.00	247.56	1160.00	0.00	0.00	0.00	0.00	Rustler
1200.00	0.00	247.56	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	247.56	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	247.56	1400.00	0.00	0.00	0.00	0.00	
1454.00	0.00	247.56	1454.00	0.00	0.00	0.00	0.00	Salt
1500.00	0.00	247.56	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	247.56	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	247.56	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	247.56	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	247.56	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	247.56	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	247.56	2099.98	-0.67	-1.61	-0.52	2.00	
2200.00	4.00	247.56	2199.84	-2.66	-6.45	-2.07	2.00	
2300.00	6.00	247.56	2299.45	-5.99	-14.51	-4.64	2.00	
2400.00	8.00	247.56	2398.70	-10.64	-25.77	-8.25	2.00	
2500.00	10.00	247.56	2497.47	-16.61	-40.23	-12.88	2.00	Hold Tangent
2600.00	10.00	247.56	2595.95	-23.24	-56.28	-18.02	0.00	
2700.00	10.00	247.56	2694.43	-29.87	-72.33	-23.16	0.00	
2800.00	10.00	247.56	2792.91	-36.50	-88.38	-28.30	0.00	
2900.00	10.00	247.56	2891.39	-43.13	-104.43	-33.43	0.00	
3000.00	10.00	247.56	2989.87	-49.76	-120.48	-38.57	0.00	
3100.00	10.00	247.56	3088.35	-56.38	-136.53	-43.71	0.00	
3200.00	10.00	247.56	3186.83	-63.01	-152.58	-48.85	0.00	
3300.00	10.00	247.56	3285.31	-69.64	-168.63	-53.99	0.00	
3400.00	10.00	247.56	3383.79	-76.27	-184.68	-59.13	0.00	
3500.00	10.00	247.56	3482.27	-82.90	-200.73	-64.27	0.00	
3600.00	10.00	247.56	3580.75	-89.53	-216.78	-69.41	0.00	
3700.00	10.00	247.56	3679.23	-96.15	-232.83	-74.54	0.00	
3800.00	10.00	247.56	3777.72	-102.78	-248.88	-79.68	0.00	
3900.00	10.00	247.56	3876.20	-109.41	-264.93	-84.82	0.00	
4000.00	10.00	247.56	3974.68	-116.04	-280.98	-89.96	0.00	
4100.00	10.00	247.56	4073.16	-122.67	-297.03	-95.10	0.00	
4200.00	10.00	247.56	4171.64	-129.30	-313.08	-100.24	0.00	
4300.00	10.00	247.56	4270.12	-135.93	-329.13	-105.38	0.00	
4400.00	10.00	247.56	4368.60	-142.55	-345.18	-110.52	0.00	
4500.00	10.00	247.56	4467.08	-149.18	-361.23	-115.65	0.00	
4598.41	10.00	247.56	4564.00	-155.71	-377.02	-120.71	0.00	Base of Salt
4600.00	10.00	247.56	4565.56	-155.81	-377.28	-120.79	0.00	
4700.00	10.00	247.56	4664.04	-162.44	-393.33	-125.93	0.00	
4800.00	10.00	247.56	4762.52	-169.07	-409.38	-131.07	0.00	
4857.35	10.00	247.56	4819.00	-172.87	-418.58	-134.02	0.00	Delaware
4900.00	10.00	247.56	4861.00	-175.70	-425.42	-136.21	0.00	
5000.00	10.00	247.56	4959.48	-182.33	-441.47	-141.35	0.00	
5100.00	10.00	247.56	5057.97	-188.95	-457.52	-146.49	0.00	
5200.00	10.00	247.56	5156.45	-195.58	-473.57	-151.63	0.00	
5300.00	10.00	247.56	5254.93	-202.21	-489.62	-156.76	0.00	
5400.00	10.00	247.56	5353.41	-208.84	-505.67	-161.90	0.00	
5500.00	10.00	247.56	5451.89	-215.47	-521.72	-167.04	0.00	
5600.00	10.00	247.56	5550.37	-222.10	-537.77	-172.18	0.00	
5700.00	10.00	247.56	5648.85	-228.72	-553.82	-177.32	0.00	
5800.00	10.00	247.56	5747.33	-235.35	-569.87	-182.46	0.00	
5900.00	10.00	247.56	5845.81	-241.98	-585.92	-187.60	0.00	
6000.00	10.00	247.56	5944.29	-248.61	-601.97	-192.74	0.00	
6022.04	10.00	247.56	5966.00	-250.07	-605.51	-193.87	0.00	Cherry Canyon
6100.00	10.00	247.56	6042.77	-255.24	-618.02	-197.87	0.00	
6200.00	10.00	247.56	6141.25	-261.87	-634.07	-203.01	0.00	
6300.00	10.00	247.56	6239.73	-268.50	-650.12	-208.15	0.00	
6400.00	10.00	247.56	6338.22	-275.12	-666.17	-213.29	0.00	



**Well:** GATO GRANDE 9-4 FED COM 511H  
**County:** Lea  
**Wellbore:** Permit Plan  
**Design:** Permit Plan #1

**Geodetic System:** US State Plane 1983  
**Datum:** North American Datum 1927  
**Ellipsoid:** Clarke 1866  
**Zone:** 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6500.00	10.00	247.56	6436.70	-281.75	-682.22	-218.43	0.00	
6600.00	10.00	247.56	6535.18	-288.38	-698.27	-223.57	0.00	
6700.00	10.00	247.56	6633.66	-295.01	-714.32	-228.71	0.00	
6800.00	10.00	247.56	6732.14	-301.64	-730.37	-233.85	0.00	
6900.00	10.00	247.56	6830.62	-308.27	-746.42	-238.98	0.00	
6985.68	10.00	247.56	6915.00	-313.95	-760.18	-243.39	0.00	Brushy Canyon
7000.00	10.00	247.56	6929.10	-314.89	-762.47	-244.12	0.00	
7100.00	10.00	247.56	7027.58	-321.52	-778.52	-249.26	0.00	
7200.00	10.00	247.56	7126.06	-328.15	-794.57	-254.40	0.00	
7300.00	10.00	247.56	7224.54	-334.78	-810.62	-259.54	0.00	
7333.76	10.00	247.56	7257.79	-337.02	-816.04	-261.27	0.00	Drop to Vertical
7400.00	8.68	247.56	7323.15	-341.12	-825.98	-264.45	2.00	
7500.00	6.68	247.56	7422.25	-346.22	-838.32	-268.40	2.00	
7600.00	4.68	247.56	7521.75	-349.99	-847.46	-271.33	2.00	
7700.00	2.68	247.56	7621.54	-352.44	-853.38	-273.23	2.00	
7800.00	0.68	247.56	7721.50	-353.55	-856.09	-274.09	2.00	
7833.76	0.00	247.56	7755.25	-353.63	-856.27	-274.15	2.00	Hold Vertical
7900.00	0.00	359.62	7821.50	-353.63	-856.27	-274.15	0.00	
8000.00	0.00	359.62	7921.50	-353.63	-856.27	-274.15	0.00	
8100.00	0.00	359.62	8021.50	-353.63	-856.27	-274.15	0.00	
8200.00	0.00	359.62	8121.50	-353.63	-856.27	-274.15	0.00	
8300.00	0.00	359.62	8221.50	-353.63	-856.27	-274.15	0.00	
8400.00	0.00	359.62	8321.50	-353.63	-856.27	-274.15	0.00	
8500.00	0.00	359.62	8421.50	-353.63	-856.27	-274.15	0.00	
8600.00	0.00	359.62	8521.50	-353.63	-856.27	-274.15	0.00	
8700.00	0.00	359.62	8621.50	-353.63	-856.27	-274.15	0.00	
8718.50	0.00	359.62	8640.00	-353.63	-856.27	-274.15	0.00	Avalon / Point of Penetration
8800.00	0.00	359.62	8721.50	-353.63	-856.27	-274.15	0.00	
8820.55	0.00	359.62	8742.05	-353.63	-856.27	-274.15	0.00	KOP
8900.00	7.94	359.62	8821.24	-348.13	-856.31	-268.67	10.00	
9000.00	17.94	359.62	8918.58	-325.76	-856.45	-246.38	10.00	
9100.00	27.94	359.62	9010.55	-286.82	-856.71	-207.58	10.00	
9200.00	37.94	359.62	9094.36	-232.51	-857.07	-153.46	10.00	
9300.00	47.94	359.62	9167.47	-164.47	-857.53	-85.66	10.00	
9400.00	57.94	359.62	9227.65	-84.77	-858.05	-6.24	10.00	
9500.00	67.94	359.62	9273.08	4.17	-858.64	82.38	10.00	
9600.00	77.94	359.62	9302.37	99.65	-859.28	177.52	10.00	
9700.00	87.94	359.62	9314.64	198.77	-859.94	276.28	10.00	
9723.45	90.29	359.62	9315.00	222.21	-860.09	299.64	10.00	Landing Point
9800.00	90.29	359.62	9314.61	298.76	-860.60	375.92	0.00	
9900.00	90.29	359.62	9314.11	398.76	-861.26	475.56	0.00	
10000.00	90.29	359.62	9313.60	498.75	-861.92	575.20	0.00	
10100.00	90.29	359.62	9313.10	598.75	-862.59	674.84	0.00	
10200.00	90.29	359.62	9312.59	698.75	-863.25	774.48	0.00	
10300.00	90.29	359.62	9312.09	798.74	-863.92	874.13	0.00	
10400.00	90.29	359.62	9311.58	898.74	-864.58	973.77	0.00	
10500.00	90.29	359.62	9311.08	998.74	-865.24	1073.41	0.00	
10600.00	90.29	359.62	9310.57	1098.73	-865.91	1173.05	0.00	
10700.00	90.29	359.62	9310.07	1198.73	-866.57	1272.69	0.00	
10800.00	90.29	359.62	9309.56	1298.73	-867.23	1372.33	0.00	
10900.00	90.29	359.62	9309.06	1398.72	-867.90	1471.97	0.00	
11000.00	90.29	359.62	9308.55	1498.72	-868.56	1571.61	0.00	
11100.00	90.29	359.62	9308.05	1598.71	-869.23	1671.25	0.00	
11200.00	90.29	359.62	9307.54	1698.71	-869.89	1770.90	0.00	
11300.00	90.29	359.62	9307.04	1798.71	-870.55	1870.54	0.00	
11400.00	90.29	359.62	9306.53	1898.70	-871.22	1970.18	0.00	
11500.00	90.29	359.62	9306.03	1998.70	-871.88	2069.82	0.00	
11600.00	90.29	359.62	9305.52	2098.70	-872.54	2169.46	0.00	
11700.00	90.29	359.62	9305.02	2198.69	-873.21	2269.10	0.00	
11800.00	90.29	359.62	9304.51	2298.69	-873.87	2368.74	0.00	
11900.00	90.29	359.62	9304.01	2398.69	-874.54	2468.38	0.00	
12000.00	90.29	359.62	9303.50	2498.68	-875.20	2568.03	0.00	
12100.00	90.29	359.62	9303.00	2598.68	-875.86	2667.67	0.00	
12200.00	90.29	359.62	9302.49	2698.68	-876.53	2767.31	0.00	
12300.00	90.29	359.62	9301.99	2798.67	-877.19	2866.95	0.00	
12400.00	90.29	359.62	9301.48	2898.67	-877.85	2966.59	0.00	
12500.00	90.29	359.62	9300.98	2998.67	-878.52	3066.23	0.00	
12600.00	90.29	359.62	9300.47	3098.66	-879.18	3165.87	0.00	
12700.00	90.29	359.62	9299.97	3198.66	-879.85	3265.51	0.00	
12800.00	90.29	359.62	9299.46	3298.66	-880.51	3365.15	0.00	



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MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12900.00	90.29	359.62	9298.96	3398.65	-881.17	3464.80	0.00	
13000.00	90.29	359.62	9298.45	3498.65	-881.84	3564.44	0.00	
13100.00	90.29	359.62	9297.95	3598.65	-882.50	3664.08	0.00	
13200.00	90.29	359.62	9297.44	3698.64	-883.16	3763.72	0.00	
13300.00	90.29	359.62	9296.94	3798.64	-883.83	3863.36	0.00	
13400.00	90.29	359.62	9296.43	3898.63	-884.49	3963.00	0.00	
13500.00	90.29	359.62	9295.93	3998.63	-885.16	4062.64	0.00	
13600.00	90.29	359.62	9295.42	4098.63	-885.82	4162.28	0.00	
13700.00	90.29	359.62	9294.92	4198.62	-886.48	4261.93	0.00	
13800.00	90.29	359.62	9294.41	4298.62	-887.15	4361.57	0.00	
13900.00	90.29	359.62	9293.91	4398.62	-887.81	4461.21	0.00	
14000.00	90.29	359.62	9293.40	4498.61	-888.47	4560.85	0.00	
14100.00	90.29	359.62	9292.90	4598.61	-889.14	4660.49	0.00	
14200.00	90.29	359.62	9292.39	4698.61	-889.80	4760.13	0.00	
14300.00	90.29	359.62	9291.89	4798.60	-890.47	4859.77	0.00	
14400.00	90.29	359.62	9291.38	4898.60	-891.13	4959.41	0.00	
14500.00	90.29	359.62	9290.88	4998.60	-891.79	5059.05	0.00	
14600.00	90.29	359.62	9290.37	5098.59	-892.46	5158.70	0.00	
14700.00	90.29	359.62	9289.87	5198.59	-893.12	5258.34	0.00	
14800.00	90.29	359.62	9289.36	5298.59	-893.78	5357.98	0.00	
14900.00	90.29	359.62	9288.86	5398.58	-894.45	5457.62	0.00	
15000.00	90.29	359.62	9288.35	5498.58	-895.11	5557.26	0.00	
15100.00	90.29	359.62	9287.85	5598.58	-895.78	5656.90	0.00	
15200.00	90.29	359.62	9287.34	5698.57	-896.44	5756.54	0.00	
15300.00	90.29	359.62	9286.84	5798.57	-897.10	5856.18	0.00	
15400.00	90.29	359.62	9286.33	5898.57	-897.77	5955.82	0.00	
15500.00	90.29	359.62	9285.83	5998.56	-898.43	6055.47	0.00	
15600.00	90.29	359.62	9285.32	6098.56	-899.09	6155.11	0.00	
15700.00	90.29	359.62	9284.82	6198.55	-899.76	6254.75	0.00	
15800.00	90.29	359.62	9284.31	6298.55	-900.42	6354.39	0.00	
15900.00	90.29	359.62	9283.81	6398.55	-901.09	6454.03	0.00	
16000.00	90.29	359.62	9283.30	6498.54	-901.75	6553.67	0.00	
16100.00	90.29	359.62	9282.80	6598.54	-902.41	6653.31	0.00	
16200.00	90.29	359.62	9282.29	6698.54	-903.08	6752.95	0.00	
16300.00	90.29	359.62	9281.79	6798.53	-903.74	6852.60	0.00	
16400.00	90.29	359.62	9281.28	6898.53	-904.40	6952.24	0.00	
16500.00	90.29	359.62	9280.78	6998.53	-905.07	7051.88	0.00	
16600.00	90.29	359.62	9280.27	7098.52	-905.73	7151.52	0.00	
16700.00	90.29	359.62	9279.77	7198.52	-906.39	7251.16	0.00	
16800.00	90.29	359.62	9279.26	7298.52	-907.06	7350.80	0.00	
16900.00	90.29	359.62	9278.76	7398.51	-907.72	7450.44	0.00	
17000.00	90.29	359.62	9278.25	7498.51	-908.39	7550.08	0.00	
17100.00	90.29	359.62	9277.75	7598.51	-909.05	7649.72	0.00	
17200.00	90.29	359.62	9277.24	7698.50	-909.71	7749.37	0.00	
17300.00	90.29	359.62	9276.73	7798.50	-910.38	7849.01	0.00	
17400.00	90.29	359.62	9276.23	7898.50	-911.04	7948.65	0.00	
17500.00	90.29	359.62	9275.72	7998.49	-911.70	8048.29	0.00	
17600.00	90.29	359.62	9275.22	8098.49	-912.37	8147.93	0.00	
17700.00	90.29	359.62	9274.71	8198.49	-913.03	8247.57	0.00	
17800.00	90.29	359.62	9274.21	8298.48	-913.70	8347.21	0.00	
17900.00	90.29	359.62	9273.70	8398.48	-914.36	8446.85	0.00	
18000.00	90.29	359.62	9273.20	8498.47	-915.02	8546.50	0.00	
18100.00	90.29	359.62	9272.69	8598.47	-915.69	8646.14	0.00	
18200.00	90.29	359.62	9272.19	8698.47	-916.35	8745.78	0.00	
18300.00	90.29	359.62	9271.68	8798.46	-917.01	8845.42	0.00	
18400.00	90.29	359.62	9271.18	8898.46	-917.68	8945.06	0.00	
18500.00	90.29	359.62	9270.67	8998.46	-918.34	9044.70	0.00	
18600.00	90.29	359.62	9270.17	9098.45	-919.01	9144.34	0.00	
18700.00	90.29	359.62	9269.66	9198.45	-919.67	9243.98	0.00	
18800.00	90.29	359.62	9269.16	9298.45	-920.33	9343.62	0.00	
18900.00	90.29	359.62	9268.65	9398.44	-921.00	9443.27	0.00	
19000.00	90.29	359.62	9268.15	9498.44	-921.66	9542.91	0.00	
19100.00	90.29	359.62	9267.64	9598.44	-922.32	9642.55	0.00	
19200.00	90.29	359.62	9267.14	9698.43	-922.99	9742.19	0.00	
19300.00	90.29	359.62	9266.63	9798.43	-923.65	9841.83	0.00	
19400.00	90.29	359.62	9266.13	9898.43	-924.32	9941.47	0.00	
19500.00	90.29	359.62	9265.62	9998.42	-924.98	10041.11	0.00	
19540.95	90.29	359.62	9265.42	10039.37	-925.25	10081.92	0.00	exit
19600.00	90.29	359.62	9265.12	10098.42	-925.64	10140.75	0.00	
19620.95	90.29	359.62	9265.00	10119.37	-925.73	10161.63	0.00	BHL



**2. Casing Program (Primary Design)**

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54 1/2	J-55	BTC	0	1230	0	1230
9 7/8	8 5/8	32	P110HP	Talon	0	8721	0	8721
7 7/8	5 1/2	20	P110HP	CDC-HTQ	0	19621	0	9265

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

**3. Cementing Program**

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	928	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	462	Surf	9	3.27	Lead: Class C Cement + additives
	207	6986	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	1050	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	462	Surf	9	3.27	Lead: Class C Cement + additives
	207	6986	13.2	1.44	Tail: Class H / C + additives
Production	35	8221	9	3.27	Lead: Class H / C + additives
	1429	8821	13.2	1.44	Tail: Class H / C + additives

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon 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. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

**4. Pressure Control Equipment (Three String Design)**

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-58"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
Other*					
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
Other*					
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
Other*					
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.				
Y	A variance is requested to run a 5 M annular on a 10M system				

**5. Mud Program (Three String Design)**

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	8.5-9

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

**6. Logging and Testing Procedures**

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Rpeort and sbumitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additional logs planned	Interval
	Resistivity
	Density
X	CBL
	Mud log
	PEX

**7. Drilling Conditions**

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4336
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S plan attached.

**8. Other facets of operation**

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
  - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
  - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

- Directional Plan
- Other, describe

<b>C-102</b>  Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	Revised July 9, 2024
		Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-025-51312	Pool Code [97933]	Pool Name WC-025 G-07 S233204D;BONE SPRING
Property Code [333920]	Property Name <b>GATO GRANDE 9 4 FED COM</b>	
OGRID No. <b>6137</b>	Operator Name <b>DEVON ENERGY PRODUCTION COMPANY, L.P.</b>	Well Number <b>511H</b>
Ground Level Elevation <b>3,659'</b>		
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
<b>M</b>	<b>9</b>	<b>23S</b>	<b>32E</b>		<b>395' FSL</b>	<b>1,189' FWL</b>	<b>32.312940°</b>	<b>-103.684321°</b>	<b>LEA</b>

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	<b>4</b>	<b>23S</b>	<b>32E</b>	<b>LOT 4</b>	<b>20' FNL</b>	<b>330' FWL</b>	<b>32.340771°</b>	<b>-103.687119°</b>	<b>LEA</b>

Dedicated Acres 319.48	Infill or Defining Well INFILL	Defining Well API 30-025-51260	Overlapping Spacing Unit (Y/N) Y	Consolidation Code C
Order Numbers. n/a			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
<b>M</b>	<b>9</b>	<b>23S</b>	<b>32E</b>		<b>50' FSL</b>	<b>330' FWL</b>	<b>32.311983°</b>	<b>-103.687099°</b>	<b>LEA</b>

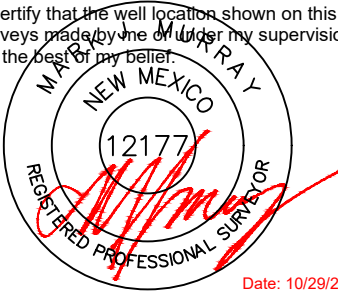
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
<b>M</b>	<b>9</b>	<b>23S</b>	<b>32E</b>		<b>100' FSL</b>	<b>330' FWL</b>	<b>32.312120°</b>	<b>-103.687099°</b>	<b>LEA</b>

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	<b>4</b>	<b>23S</b>	<b>32E</b>	<b>LOT 4</b>	<b>100' FNL</b>	<b>330' FWL</b>	<b>32.340551°</b>	<b>-103.687119°</b>	<b>LEA</b>

Unitized Area or Area of Uniform Interest N	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:
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<p><b>OPERATOR CERTIFICATIONS</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</p> <p style="text-align: right;"><i>Lauren Watson</i>      <b>12/02/2025</b></p>	<p><b>SURVEYOR CERTIFICATIONS</b></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 and correct to the best of my belief.</p> <div style="text-align: center;">  <p>Date: 10/29/2025</p> </div>		
Signature <b>Lauren Watson</b>	Signature and Seal of Professional Surveyor		
Printed Name <b>Lauren.watson@dvn.com</b>	Certificate Number 29796	Date of Survey 10/29/2025	Revision Number 0
Email Address			

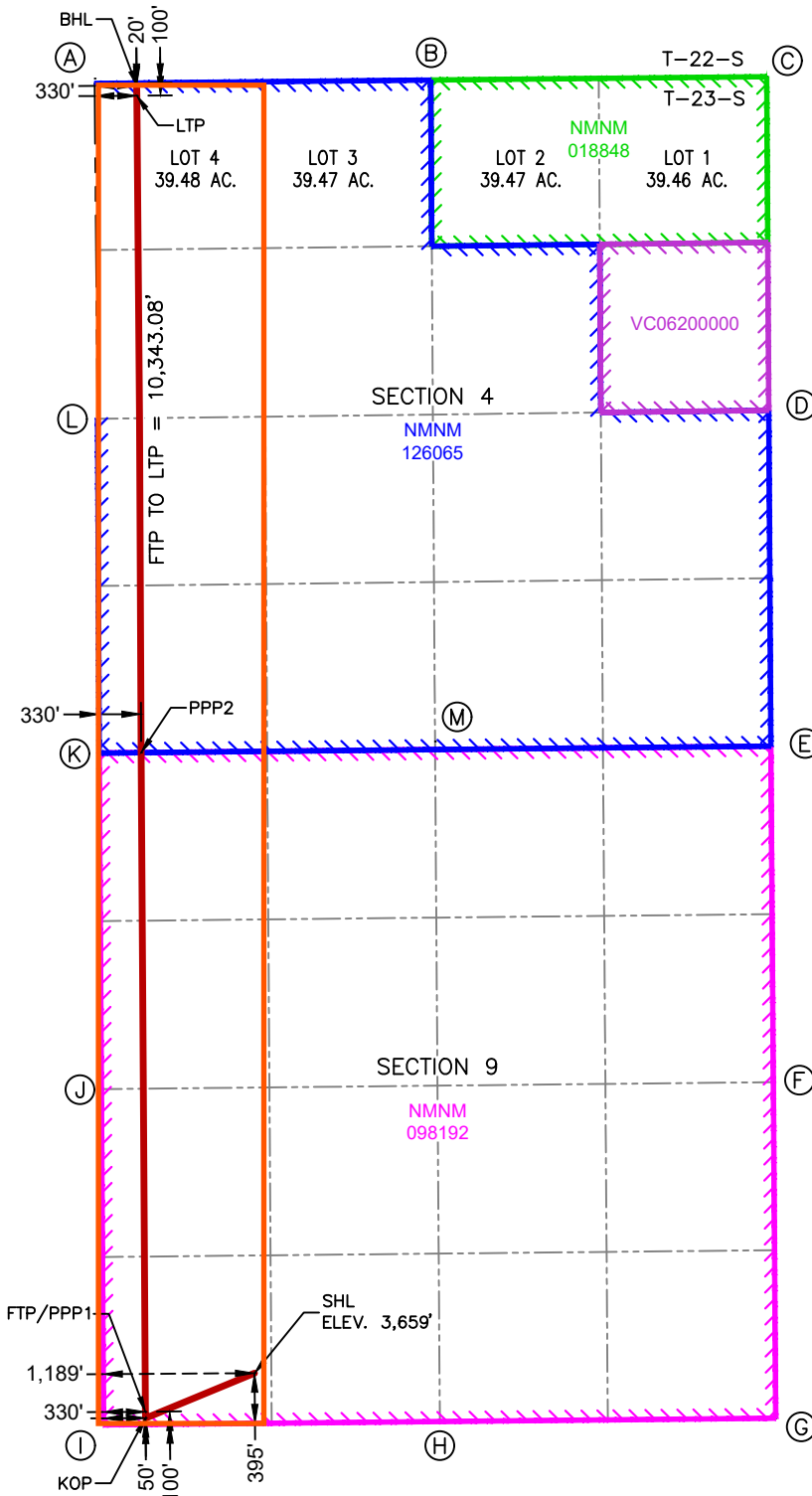
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

**GATO GRANDE 9 4 FED COM 511H**



**SURFACE HOLE LOCATION**  
 395' FSL & 1,189' FWL  
 ELEV. = 3,659'  
 NAD 83 X = 741,839.26'  
 NAD 83 Y = 478,187.03'  
 NAD 83 LAT = 32.312940°  
 NAD 83 LONG = -103.684321°

**KICK-OFF POINT**  
 50' FSL & 330' FWL  
 NAD 83 X = 740,982.91'  
 NAD 83 Y = 477,833.56'  
 NAD 83 LAT = 32.311983°  
 NAD 83 LONG = -103.687099°

**FIRST TAKE POINT & PENETRATION POINT 1**  
 100' FSL & 330' FWL  
 NAD 83 X = 740,982.58'  
 NAD 83 Y = 477,883.56'  
 NAD 83 LAT = 32.312120°  
 NAD 83 LONG = -103.687099°

**PENETRATION POINT 2**  
 0' FNL & 330' FWL  
 NAD 83 X = 740,948.92'  
 NAD 83 Y = 483,063.67'  
 NAD 83 LAT = 32.326359°  
 NAD 83 LONG = -103.687107°

**LAST TAKE POINT**  
 100' FNL & 330' FWL  
 NAD 83 X = 740,914.22'  
 NAD 83 Y = 488,226.41'  
 NAD 83 LAT = 32.340551°  
 NAD 83 LONG = -103.687119°

**BOTTOM HOLE LOCATION**  
 20' FNL & 330' FWL  
 NAD 83 X = 740,913.53'  
 NAD 83 Y = 488,306.40'  
 NAD 83 LAT = 32.340771°  
 NAD 83 LONG = -103.687119°

CORNER COORDINATES NEW MEXICO EAST - NAD 83	
A	IRON PIPE W/BRASS CAP N:488,323.10' E:740,583.37'
B	CALCULATED CORNER N:488,349.49' E:743,224.26'
C	IRON PIPE W/BRASS CAP N:488,375.88' E:745,865.14'
D	IRON PIPE W/BRASS CAP N:485,753.66' E:745,881.34'
E	CALCULATED CORNER N:483,114.70' E:745,897.59'
F	IRON PIPE W/BRASS CAP N:480,473.91' E:745,917.15'
G	IRON PIPE W/BRASS CAP N:477,833.17' E:745,935.94'
H	IRON PIPE W/BRASS CAP N:477,806.86' E:743,296.26'
I	IRON PIPE W/BRASS CAP N:477,780.24' E:740,653.25'
J	IRON PIPE W/BRASS CAP N:480,419.18' E:740,635.92'
K	IRON PIPE W/BRASS CAP N:483,060.19' E:740,618.94'
L	IRON PIPE W/BRASS CAP N:485,687.56' E:740,606.09'
M	IRON PIPE W/BRASS CAP N:483,088.03' E:743,258.71'



February 16, 2026

Coterra Energy Operating Co.  
6001 Deauville Blvd.  
Midland, Texas, 79706

Re: Overlapping Spacing Unit- Waiver Request  
Gato Grande 9-4 Fed Com 511H  
W2W2 Section 4 & 9, T23S-R32E (the “Overlapping Spacing Unit”)  
Lea County, New Mexico

To whom it may concern:

Devon Energy Production Company, L.P. (“Devon”), as Operator, is planning to drill and complete the Gato Grande 9-4 Fed Com 511H well to a depth sufficient to test the Bone Spring formation. Devon plans to dedicate the well as an overlapping spacing unit in the WC-025 G-07 S233204D; Bone Spring Pool (97933) consisting of the W2W2 of Sections 4 & 9, T23S-R32E, being 319.48 acres.

The proposed Overlapping Spacing Unit will overlap the established spacing unit for the Red Tank 4 Federal #1H as to the W2W2 of Section 4, T23S-R32E in the WC-025 G-07 S233204D; Bone Spring Pool (97933).

Devon respectfully requests Coterra to waive objection to the Overlapping Spacing Unit. If you are in agreement, please indicate your acceptance and agreement by executing in the space below.

If you have any questions about this matter, please contact me at 405-228-2850 or via email at aaron.young@dvn.com.

Sincerely,

DEVON ENERGY PRODUCTION COMPANY, L.P.

Aaron Young  
Advising Landman

Overlapping Spacing Unit- Waiver Request


Gato Grande 9 4 Fed Com 511H

W2W2 Section 4 & 9, T23S-R32E (the "Overlapping Spacing Unit")

Lea County, New Mexico

**Coterra Energy Operating Co. waives objection to the proposed Overlapping Spacing Unit for the Gato Grande well in the WC-025 G-07 S233204D; Bone Spring Pool (97933), identified as the W2W2 of Sections 4 & 9, T23S-R32E, Lea County, New Mexico.**

**Coterra Energy Operating Co.**

  
\_\_\_\_\_

*add*

By: Scott T. Richter

Title: Land Manager - PBU

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 549037

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 549037
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
matthew.gomez	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	2/11/2026
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	2/11/2026
matthew.gomez	If cement does not circulate to surface on any string, a Cement Bond Log (CBL) is required for that string of casing. If a CBL is unable to indicate sufficient cement coverage due to a lighter cement, a USIT log may also be required. If strata isolation is not achieved, remediation will be required before further operations may commence.	2/11/2026
matthew.gomez	All conducted logs must be submitted to the OCD.	2/11/2026
matthew.gomez	Cement must be in place for at least eight hours and achieve a minimum compressive strength of 500 PSI before performing any further operations on the well.	2/11/2026
matthew.gomez	All previous COA's still apply.	2/11/2026