

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Repor

Well Name: STACK CATS 25\_36 FED

COM

Well Location: T22S / R32E / SEC 25 /

NWNE / 32.3694998 / -103.6252656

Well Number: 15H Type of Well: OIL WELL County or Parish/State: LEA /

Allottee or Tribe Name:

Lease Number: NMNM2379

**Unit or CA Name:** 

**Unit or CA Number:** NMNM106353894

**US Well Number:** 

**Operator: OXY USA INCORPORATED** 

#### **Notice of Intent**

Sundry ID: 2844433

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 03/31/2025 Time Sundry Submitted: 10:10

Date proposed operation will begin: 04/11/2025

Procedure Description: OXY USA Inc., respectfully requests to amend the subject AAPD to revise the SHL, BHL, HSU, Pool, TVD, Target Formation and Drill Plan. Old SHL: 210' FNL 1689' FEL New SHL: 210' FNL 1569' FEL Old BHL: 20' FSL 1310' FEL New BHL: 20' FNL 1580' FEL Old HSU: 640 acres New HSU: 1280 acres Old Pool: RED TANK, BONE SPRING New Pool: WC-025 G-09 S223332A, UPR WOLFCAMP Old TVD: 9569' New TVD: 12202' Old Target Formation: BONE SPRING New Target Formation: WOLFCAMP \*THERE IS NO ADDITIONAL SURFACE DISTURBANCE RELATED TO THIS SUNDRY" Attached is the updated C102, drill plan, directional, Blanket Design, NSHSU order and APD Change Worksheet.

# **NOI Attachments**

#### **Procedure Description**

TunaNut24\_13FedCom\_NSHSU\_Order\_20250331100947.pdf

TunaNut24\_13FedCom64H\_5MAnnBOPVariance\_20250331100931.pdf

TunaNut24\_13FedCom64H\_VAM\_SPRINT\_SF\_5.5in\_20ppf\_P110RY\_20250331100919.pdf

TunaNut24\_13FedCom64H\_API\_BTC\_SC\_10.750in\_45.50ppf\_L80IC\_20250331100907.pdf

TunaNut24\_13FedCom64H\_13inADAPT\_4S\_10x15\_20250331100856.pdf

Blanket\_Design\_B\_\_OXY\_\_\_4S\_Slim\_Contingency\_\_non\_KPLA\_\_v3.2\_20250331100840.pdf

Blanket\_Design\_B\_Pad\_Document\_REDTNK\_T22SR32E\_25\_04\_20250331100823.pdf

TunaNut24\_13FedCom64H\_DirectPlan\_20250331100810.pdf

well Name: STACK CATS 25\_36 FED

COM

Well Location: T22S / R32E / SEC 25 /

NWNE / 32.3694998 / -103.6252656

County or Parish/State: LEA/ 2 of

Well Number: 15H

Type of Well: OIL WELL

**Allottee or Tribe Name:** 

Lease Number: NMNM2379

**Unit or CA Name:** 

**Unit or CA Number:** NMNM106353894

**US Well Number:** 

**Operator: OXY USA INCORPORATED** 

TunaNut24\_13FedCom64H\_DrillPlan\_20250331100759.pdf

TunaNut24\_13FedCom64H\_C102\_20250331100742.pdf

TunaNut24 13FedCom64H APDCHGSUNDRYWORKSHEET 20250331100728.pdf

## **Conditions of Approval**

#### Additional

TUNA\_NUT\_24\_13\_FED\_COM\_64H\_\_\_SUNDRY\_COA\_20250422130043.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: MELISSA GUIDRY** Signed on: MAR 31, 2025 10:09 AM

Name: OXY USA INCORPORATED

Title: Advisor Regulatory Sr.

Street Address: 5 GREENWAY PLAZA SUITE 110

City: HOUSTON State: TX

Phone: (713) 497-2481

Email address: MELISSA\_GUIDRY@OXY.COM

#### **Field**

**Representative Name:** 

**Street Address:** 

City:

State:

Zip:

Phone:

**Email address:** 

## **BLM Point of Contact**

**BLM POC Name: CHRISTOPHER WALLS** 

**BLM POC Phone:** 5752342234

**Disposition:** Approved

Signature: Chris Walls

**BLM POC Title:** Petroleum Engineer

BLM POC Email Address: cwalls@blm.gov

Disposition Date: 04/23/2025

Page 2 of 2

Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

DEI.	AKTIMENT OF THE	INTERIOR					
BURE	EAU OF LAND MAN	AGEMENT		5. Lease Serial No. NMNM2379			
SUNDRY N	OTICES AND REPO	ORTS ON W	ELLS	6. If Indian, Allottee or Tribe	Name		
	orm for proposals						
abandoned well. U	Jse Form 3160-3 (A	(PD) for suc	ch proposals	-			
SUBMIT IN T	<b>TRIPLICATE</b> - Other instr	uctions on pag	e 2	7. If Unit of CA/Agreement, N	Name and/or No.		
1. Type of Well				8. Well Name and No.			
Oil Well Gas W	_			STACK CATS 25_36 FED COM/15H			
2. Name of Operator OXY USA INCO	RPORATED			9. API Well No.			
3a. Address P.O. BOX 1002, TUPMA		3b. Phone No.	(include area code	) 10. Field and Pool or Explorat	tory Area		
	,	(661) 763-604	46	RED TANK/BONE SPRING	RED TANK/BONE SPRING		
4. Location of Well (Footage, Sec., T.,R SEC 25/T22S/R32E/NMP	.,M., or Survey Description,	)		11. Country or Parish, State LEA/NM			
12. CHEC	CK THE APPROPRIATE B	OX(ES) TO INI	DICATE NATURE	OF NOTICE, REPORT OR OTH	HER DATA		
TYPE OF SUBMISSION			TYF	PE OF ACTION			
✓ Notice of Intent	Acidize	Deep	en	Production (Start/Resume)	Water Shut-Off		
	Alter Casing	Hydr	aulic Fracturing	Reclamation	Well Integrity		
Subsequent Report	Casing Repair		Construction	Recomplete	Other		
	Change Plans		and Abandon	Temporarily Abandon			
Final Abandonment Notice	Convert to Injection	Plug	Back	Water Disposal			
completed. Final Abandonment Not is ready for final inspection.)  OXY USA Inc., respectfully required on the continued on page 3 additional	ices must be filed only after guests to amend the subjection.	all requirement	s, including reclam	ation, have been completed and t	160-4 must be filed once testing has been he operator has detennined that the site rmation and Drill Plan.		
14. I hereby certify that the foregoing is	true and correct. Name (Pr	inted/Typed)					
MELISSA GUIDRY / Ph: (713) 497-	-2481		Advisor Re	egulatory Sr.			
Signature (Electronic Submission)  Date			Date	03/31/2	025		
	THE SPACE	FOR FEDI	ERAL OR ST	ATE OFICE USE			
Approved by							
CHRISTOPHER WALLS / Ph: (575	i) 234-2234 / Approved		Title Petro	leum Engineer	<b>04/23/2025</b> Date		
Conditions of approval, if any, are attach certify that the applicant holds legal or e which would entitle the applicant to con-	quitable title to those rights			RLSBAD			

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, 3162.3-4.

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

#### **Additional Information**

#### **Additional Remarks**

New Pool: WC-025 G-09 S223332A, UPR WOLFCAMP

Old TVD: 9569' New TVD: 12202'

Old Target Formation: BONE SPRING New Target Formation: WOLFCAMP

\*THERE IS NO ADDITIONAL SURFACE DISTURBANCE RELATED TO THIS SUNDRY"

Attached is the updated C102, drill plan, directional, Blanket Design, NSHSU order and APD Change Worksheet.

#### **Location of Well**

0. SHL: NWNE / 210 FNL / 1689 FEL / TWSP: 22S / RANGE: 32E / SECTION: 25 / LAT: 32.3694998 / LONG: -103.6252656 ( TVD: 0 feet, MD: 0 feet ) PPP: NENE / 100 FNL / 1310 FEL / TWSP: 22S / RANGE: 32E / SECTION: 25 / LAT: 32.3698064 / LONG: -103.6240369 ( TVD: 9569 feet, MD: 9947 feet ) PPP: SESE / 0 FSL / 1310 FEL / TWSP: 22S / RANGE: 32E / SECTION: 25 / LAT: 32.355565 / LONG: -103.6240274 ( TVD: 9569 feet, MD: 14905 feet ) BHL: SWSE / 20 FSL / 1310 FEL / TWSP: 22S / RANGE: 32E / SECTION: 36 / LAT: 32.3411094 / LONG: -103.6240159 ( TVD: 9569 feet, MD: 20164 feet )

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INCORPORATED
WELL NAME & NO.: TUNA NUT 24 13 FED COM 64H
LOCATION: Section 24, T.22 S., R.32 E.
COUNTY: Lea County, New Mexico

#### ALL PREVIOUS COAS STILL APPLY

COA

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

NOTE: WELL APPROVED FOR DESIGNS A1, A2 AND B. REVIEW CEMENT VOLUMES TO ACHIEVE TIE BACKS LISTED BELOW.

#### **A1:**

1. The **10-3/4** inch surface casing shall be set at approximately **1093** feet **TVD** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** 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 7-5/8 inch intermediate casing shall be set at approximately 11,529 feet. KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

#### **Option 1 (Single Stage):**

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

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
- 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
- ❖ In <u>Secretary Potash Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8"

casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

Bradenhead squeeze in the production interval is only as an edge case remediation measure and is NOT approved in this COA. If production cement job experiences losses and a bradenhead squeeze is needed for tie-back, BLM Engineering should be notified prior to job with volumes and planned wellbore schematic. CBL will be needed when this occurs.

3. The **5-1/2** inch production casing shall be set at approximately **22,708** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

#### **Option 1 (Single Stage):**

• Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

#### **A2:**

- 1. The 13-3/8 inch surface casing shall be set at approximately 1093 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.
  - e. 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.
  - f. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - g. 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.
  - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 7-5/8 inch intermediate casing shall be set at approximately 11,529 feet. KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL. The minimum required fill of cement behind the 7-5/8 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 (Bradenhead):**

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.

- c. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- d. 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
- 3. The **5-1/2** inch production casing shall be set at approximately **22,708** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

#### **Option 1 (Single Stage):**

• Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

#### **B** (Contingency: )

- 1. The 13-3/8 inch surface casing shall be set at approximately 1093 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.
  - i. 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.
  - j. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - k. 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.
  - 1. If cement falls back, remedial cementing will be done prior to drilling out that

string.

2. The 10-3/4 inch intermediate casing shall be set at approximately 4966 feet TVD. KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

#### **Option 1 (Single Stage):**

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The 7-5/8 inch intermediate casing shall be set at approximately 11,529 feet. KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL. The minimum required fill of cement behind the 7-5/8 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 (Bradenhead):**

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.

- e. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- f. 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
- 4. The **5-1/2** inch production casing shall be set at approximately **22,708** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

#### **Option 1 (Single Stage):**

• Cement should tie-back at least **500 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 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 and the intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

#### D. SPECIAL REQUIREMENT (S)

#### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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

#### **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

#### **Offline Cementing**

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

# GENERAL REQUIREMENTS

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

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

#### **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**; (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** 4/14/2025

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF APPLICATION FOR COMPULSORY POOLING AND APPROVAL OF NON-STANDARD SPACING UNIT SUBMITTED BY OXY USA INC

CASE NO. 24875 ORDER NO. R-23633

#### **ORDER**

The Director of the New Mexico Oil Conservation Division ("OCD"), having heard this matter through a Hearing Examiner on October 31, 2024, and after considering the testimony, evidence, and recommendation of the Hearing Examiner, issues the following Order.

#### FINDINGS OF FACT

- 1. Oxy USA Inc ("Operator") submitted an application ("Application") to compulsory pool the uncommitted oil and gas interests within the spacing unit ("Unit") described in Exhibit A.
- 2. The Application also seeks approval of a Non-Standard horizontal spacing unit for production from all Division-designated pools underlying the Unit.
- 3. Operator seeks to be designated the operator of the Unit.
- 4. Operator will dedicate the well(s) described in Exhibit A ("Well(s)") to the Unit.
- 5. Operator proposes the supervision and risk charges for the Well(s) described in Exhibit A.
- 6. Operator identified the owners of uncommitted interests in oil and gas minerals in the Unit and provided evidence that notice was given.
- 7. Operator identified the owners of interest in the offset oil and gas minerals from the Unit and provided evidence that notice was given.
- 8. The Application was heard by the Hearing Examiner on the date specified above, during which Operator presented evidence through affidavits in support of the Application. No other party presented evidence at the hearing.

#### **CONCLUSIONS OF LAW**

- 9. OCD has jurisdiction to issue this Order pursuant to NMSA 1978, Section 70-2-17.
- 10. Operator is the owner of an oil and gas working interest within the Unit.

- 11. Operator satisfied the notice requirements for the Application and the hearing as required by 19.15.4.12 NMAC.
- 12. Operator has met the notice requirements for approval of non-standard horizontal spacing units in accordance with 19.15.16.15(B)(5) NMAC.
- 13. OCD satisfied the notice requirements for the hearing as required by 19.15.4.9 NMAC.
- 14. Operator has the right to drill the Well(s) to a common source of supply at the depth(s) and location(s) in the Unit described in Exhibit A.
- 15. OCD's rules allow the approval of a non-standard horizontal spacing unit, after notice and opportunity for hearing, "if necessary to prevent waste or protect correlative rights" 19.15.16.15(B)(5)(a) NMAC.
- 16. While the OCD is authorized to approve a non-standard spacing unit, <u>Rutter & Wilbanks Corp. v. Oil Conservation Comm'n</u>, 1975-NMSC-006, OCD lacks the authority to approve unitization and will disapprove an application if it determines that it is actually unitization. Order R-13554 (May 18, 2012) (disapproving application for a non-standard spacing unit consisting of 16 standard spacing units).
- 17. Approval of the Non-Standard Spacing Unit promotes effective well spacing and allows the Operator to therefore prevent waste and protect correlative rights.
- 18. The Unit contains separately owned uncommitted interests in oil and gas minerals.
- 19. Some of the owners of the uncommitted interests have not agreed to commit their interests to the Unit.
- 20. The pooling of uncommitted interests in the Unit will prevent waste and protect correlative rights, including the drilling of unnecessary wells.
- 21. This Order affords to the owner of an uncommitted interest the opportunity to produce his just and equitable share of the oil or gas in the pool.

#### **ORDER**

- 22. The Unit is approved as a non-standard horizontal spacing unit.
- 23. Operator shall file Forms C-102 reflecting the correct acreage dedicated for each of the Wells.
- 24. The uncommitted interests in the Unit are pooled as set forth in Exhibit A.
- 25. The Unit shall be dedicated to the Well(s) set forth in Exhibit A.

CASE NO. 24875 ORDER NO. R-23633

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- 26. Operator is designated as operator of the Unit and the Well(s).
- 27. If the location of a well will be unorthodox under the spacing rules in effect at the time of completion, Operator shall obtain the OCD's approval for a non-standard location in accordance with 19.15.16.15(C) NMAC.
- 28. The Operator shall commence drilling the Well(s) within one year after the date of this Order, and complete each Well no later than one (1) year after the commencement of drilling the Well.
- 29. This Order shall terminate automatically if the Operator fails to comply with the preceding paragraph unless the Operator obtains an extension by amending this Order for good cause shown.
- 30. The infill well requirements in 19.15.13.9 NMAC through 19.15.13.12 NMAC shall be applicable.
- 31. Operator shall submit each owner of an uncommitted working interest in the pool ("Pooled Working Interest") an itemized schedule of estimated costs to drill, complete, and equip the well ("Estimated Well Costs").
- 32. No later than thirty (30) days after Operator submits the Estimated Well Costs, the owner of a Pooled Working Interest shall elect whether to pay its share of the Estimated Well Costs or its share of the actual costs to drill, complete and equip the well ("Actual Well Costs") out of production from the well. An owner of a Pooled Working Interest who elects to pay its share of the Estimated Well Costs shall render payment to Operator no later than thirty (30) days after the expiration of the election period, and shall be liable for operating costs, but not risk charges, for the well. An owner of a Pooled Working Interest who fails to pay its share of the Estimated Well Costs or who elects to pay its share of the Actual Well Costs out of production from the well shall be considered to be a "Non-Consenting Pooled Working Interest."
- 33. No later than one hundred eighty (180) days after Operator submits a Form C-105 for a well, Operator shall submit to each owner of a Pooled Working Interest an itemized schedule of the Actual Well Costs. The Actual Well Costs shall be considered to be the Reasonable Well Costs unless an owner of a Pooled Working Interest files a written objection no later than forty-five (45) days after receipt of the schedule. If an owner of a Pooled Working Interest files a timely written objection, OCD shall determine the Reasonable Well Costs after public notice and hearing.
- 34. No later than sixty (60) days after the expiration of the period to file a written objection to the Actual Well Costs or OCD's order determining the Reasonable Well Costs, whichever is later, each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs shall pay to Operator its share of the

CASE NO. 24875 ORDER NO. R-23633

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Reasonable Well Costs that exceed the Estimated Well Costs, or Operator shall pay to each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs its share of the Estimated Well Costs that exceed the Reasonable Well Costs.

- 35. The reasonable charges for supervision to drill and produce a well ("Supervision Charges") shall not exceed the rates specified in Exhibit A, provided however that the rates shall be adjusted annually pursuant to the COPAS form entitled "Accounting Procedure-Joint Operations."
- 36. No later than within ninety (90) days after Operator submits a Form C-105 for a well, Operator shall submit to each owner of a Pooled Working Interest an itemized schedule of the reasonable charges for operating and maintaining the well ("Operating Charges"), provided however that Operating Charges shall not include the Reasonable Well Costs or Supervision Charges. The Operating Charges shall be considered final unless an owner of a Pooled Working Interest files a written objection no later than forty-five (45) days after receipt of the schedule. If an owner of a Pooled Working Interest files a timely written objection, OCD shall determine the Operating Charges after public notice and hearing.
- Operator may withhold the following costs and charges from the share of production due to each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs: (a) the proportionate share of the Supervision Charges; and (b) the proportionate share of the Operating Charges.
- Operator may withhold the following costs and charges from the share of production due to each owner of a Non-Consenting Pooled Working Interest: (a) the proportionate share of the Reasonable Well Costs; (b) the proportionate share of the Supervision and Operating Charges; and (c) the percentage of the Reasonable Well Costs specified as the charge for risk described in Exhibit A.
- 39. Operator shall distribute a proportionate share of the costs and charges withheld pursuant to the preceding paragraph to each Pooled Working Interest that paid its share of the Estimated Well Costs.
- 40. Each year on the anniversary of this Order, and no later than ninety (90) days after each payout, Operator shall provide to each owner of a Non-Consenting Pooled Working Interest a schedule of the revenue attributable to a well and the Supervision and Operating Costs charged against that revenue.
- 41. Any cost or charge that is paid out of production shall be withheld only from the share due to an owner of a Pooled Working Interest. No cost or charge shall be withheld from the share due to an owner of a royalty interests. For the purpose of this Order, an unleased mineral interest shall consist of a seven-eighths (7/8) working interest and a one-eighth (1/8) royalty interest.

- 42. Except as provided above, Operator shall hold the revenue attributable to a well that is not disbursed for any reason for the account of the person(s) entitled to the revenue as provided in the Oil and Gas Proceeds Payment Act, NMSA 1978, Sections 70-10-1 *et seq.*, and relinquish such revenue as provided in the Uniform Unclaimed Property Act, NMSA 1978, Sections 7-8A-1 *et seq.*
- 43. The Unit shall terminate if (a) the owners of all Pooled Working Interests reach a voluntary agreement; or (b) the well(s) drilled on the Unit are plugged and abandoned in accordance with the applicable rules. Operator shall inform OCD no later than thirty (30) days after such occurrence.
- 44. OCD retains jurisdiction of this matter for the entry of such orders as may be deemed necessary.

Date: <u>1/14/2025</u>

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

GERASIMOS RAZATOS DIRECTOR (Acting)

GR/jag

#### Exhibit A

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COMPULSORY POOLING APPLICATION CHECKLIST				
ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS				
Case: 24875 APPLICANT'S RESPONSE				
Date	October 31, 2024			
Applicant	OXY USA Inc.			
Designated Operator & OGRID (affiliation if applicable)	OXY USA Inc. (OGRID No. 24875)			
Applicant's Counsel:	Holland & Hart LLP			
Case Title:	APPLICATION OF OXY USA INC. FOR APPROVAL OF A NON-STANDARD HORIZONTAL WELL SPACING UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.			
Entries of Appearance/Intervenors:	N/a			
Well Family	Tuna Nut			
Formation/Pool				
Formation Name(s) or Vertical Extent:	Wolfcamp			
Primary Product (Oil or Gas):	Oil			
Pooling this vertical extent:	N/a			
Pool Name and Pool Code (Only if NSP is requested):	WC-025 G-09 S223332A; UPR Wolfcamp [98177]			
Well Location Setback Rules (Only if NSP is Requested):	Statewide oil pool			
Spacing Unit				
Type (Horizontal/Vertical)	Horizontal			
Size (Acres)	1,280			
Building Blocks:	40 acres			
Orientation:	South-North / Stand-up			
Description: TRS/County	Sections 13 and 24, Township 22 South, Range 32 East, NMPM, Lea County, New Mexico			
Standard Horizontal Well Spacing Unit (Y/N), If No, describe and is approval of non-standard unit requested in this	Oxy is seeking approval of a non-standard horizontal spacing unit.			
application?				
Other Situations Depth Severance: Y/N. If yes, description	No			
Proximity Tracts: If yes, description	No			
Proximity Defining Well: if yes, description Applicant's Ownership in Each Tract	N/a See Exhibit C-3			
Well(s)				
Name & API (if assigned), surface and bottom hole location,	Add wells as needed			
footages, completion target, orientation, completion status				
(standard or non-standard)				
Well #1	Tuna Nut 24-13 Fed Com 61H well: API: 30-025-PENDING			
	SHL: 275' FSL, 1,335' FWL (Unit N), Section 24			
	BHL: 20' FNL, 430' FWL (Unit D), Section 13			
	Target: Wolfcamp			
	Orientation: South-North			
	Completion: Standard Location			

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. A
Submitted by: OXY USA INC.
Hearing Date: October 31, 2024
Case No. 24875

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Well #2	Tuna Nut 24-13 Fed Com 62H well:
	API: 30-025-PENDING
	SHL: 275' FSL, 1,395' FWL (Unit N), Section 24
	BHL: 20' FNL, 1,670' FWL (Unit C), Section 13
	Target: Wolfcamp
	Orientation: South-North
	Completion: Standard Location
Well #3	Tuna Nut 24-13 Fed Com 63H well:
	API: 30-025-PENDING
	SHL: 275' FSL, 1,425' FWL (Unit N), Section 24
	BHL: 20' FNL, 2,260' FWL (Unit C), Section 13
	Target: Wolfcamp
	Orientation: South-North
	Completion: Standard Location
Well #4	Tuna Nut 24-13 Fed Com 64H well:
	API: 30-025-PENDING
	SHL: 210' FNL, 1,569' FEL (Unit B), Section 25
	BHL: 20' FNL, 1,580' FEL (Unit B), Section 13
	Target: Wolfcamp
	Orientation: South-North
	Completion: Standard Location
Well #5	Tuna Nut 24-13 Fed Com 65H well:
	API: 30-025-PENDING
	SHL: 210' FNL, 1,509' FEL (Unit B), Section 25
	BHL: 20' FNL, 330' FEL (Unit A), Section 13
	Target: Wolfcamp
	Orientation: South-North
	Completion: Standard Location
Well #6	Tuna Nut 24-13 Fed Com 611H well:
	API: 30-025-PENDING
	SHL: 275' FSL, 1,365' FWL (Unit N), Section 24
	BHL: 20' FNL, 1,000' FWL (Unit D), Section 13
	Target: Wolfcamp
	Orientation: South-North
	Completion: Standard Location
Well #7	Tuna Nut 24-13 Fed Com 612H well:
	API: 30-025-PENDING
	SHL: 210' FNL, 1,600' FEL (Unit B), Section 25
	BHL: 20' FNL, 2,350' FEL (Unit B), Section 13
	Target: Wolfcamp
	Orientation: South-North
	Completion: Standard Location
Well #8	Tuna Nut 24-13 Fed Com 613H well:
	API: 30-025-PENDING
	SHL: 210' FNL, 1,540' FEL (Unit B), Section 25
	BHL: 20' FNL, 810' FEL (Unit A), Section 13
	Target: Wolfcamp
	Orientation: South-North
	Completion: Standard Location
Horizontal Well First and Last Take Points	Exhibit C-2
Completion Target (Formation, TVD and MD)	Exhibit C-4
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$12,000
Production Supervision/Month \$	\$1,200
Justification for Supervision Costs	Exhibit C
Requested Risk Charge	200%
Notice of Hearing	

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Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit E
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit F
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit C-3
Tract List (including lease numbers and owners)	Exhibit C-3
If approval of Non-Standard Spacing Unit is requested, Tract List (including lease numbers and owners) of Tracts subject to	
notice requirements.	Exhibit C-3
Pooled Parties (including ownership type)	Exhibit C-3
Unlocatable Parties to be Pooled	N/a
Ownership Depth Severance (including percentage above &	
below)	N/a
Joinder	
Sample Copy of Proposal Letter	Exhibit C-4
List of Interest Owners (ie Exhibit A of JOA)	Exhibit C-3
Chronology of Contact with Non-Joined Working Interests	Exhibit C-5
Overhead Rates In Proposal Letter	Exhibit C-4
Cost Estimate to Drill and Complete	Exhibit C-4
Cost Estimate to Equip Well	Exhibit C-4
Cost Estimate for Production Facilities	Exhibit C-4
Geology	
Summary (including special considerations)	Exhibit D
Spacing Unit Schematic	Exhibit D-1
Gunbarrel/Lateral Trajectory Schematic	Exhibit D-1
Well Orientation (with rationale)	Exhibit D
Target Formation	Exhibit D; D-3; D-4
HSU Cross Section	Exhibit D-3; D-4
Depth Severance Discussion	N/a
Forms, Figures and Tables	
C-102	Exhibit C-2
Tracts	Exhibit C-3
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit C-3
General Location Map (including basin)	Exhibit D-1
Well Bore Location Map	Exhibit D-1
Structure Contour Map - Subsea Depth	Exhibit D-2
Cross Section Location Map (including wells)	Exhibit D-2
Cross Section (including Landing Zone)	Exhibit D-3; D-4
Additional Information	
Special Provisions/Stipulations	N/a
CERTIFICATION: I hereby certify that the information provi	
Printed Name (Attorney or Party Representative):	Paula M. Vance
Signed Name (Attorney or Party Representative):	radia ivi. valice
Date:	Tal Mm 10/24/2024

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#### **5M Annluar BOP Variance Request**

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see Well Control Plan below.

#### Oxy Well Control Plan

#### A. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the >5M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

#### Pilot hole and Lateral sections, 10M requirement

Component	OD	Preventer	RWP
Drillpipe	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
HWDP	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Drill collars and MWD tools	4-3/4" – 5-1/2"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Mud Motor	4-3/4"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Production casing	5-1/2"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
ALL	0" - 13-5/8"	Annular	5M
Open-hole	6-3/4"	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart.

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

#### **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 drilling, tripping, running casing, pipe out of the hole (open hole), and moving the Bottom Hole Assembly (BHA) through the Blowout Preventers (BOP). The pressure at which control is swapped from the annular to another compatible ram will occur when the anticipated pressure is approaching or envisioned to exceed 70% of the 5M annular Rated Working Pressure (RWP) or 3500 PSI.

#### 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. The Hydraulic Control Remote (HCR) valve and choke will already be in the closed position).
- 5. Confirm shut-in
- 6. Notify tool pusher/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 expected to reach 70% of the annular RWP during kill operations, crew will reconfirm spacing and swap to the upper pipe ram

#### 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. The HCR and choke will already be in the closed position)
- 5. Confirm shut-in
- 6. Notify tool pusher/company representative
- 7. Read and record the following
  - a. SIDPP and SICP
  - b. Pit gain
  - c. Time
  - d. Regroup and identify forward plan
  - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram

#### General Procedure While Running 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. The HCR and choke will already be in the closed position).
- 5. Confirm shut-in
- 6. Notify tool pusher/company representative
- 7. Read and record the following:
  - a. SIDPP and SICP
  - b. Pit gain
  - c. Time
  - d. Regroup and identify forward plan.
  - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

#### General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams or BSR. (The HCR and 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
  - 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 drill pipe thru the stack.
  - a. Perform flow check, 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 pipe ram
  - e. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
  - f. Confirm shut-in
  - g. Notify tool pusher/company representative
  - h. Read and record the following:
    - i. SIDPP and SICP
    - ii. Pit gain
    - iii. Time
    - iv. 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 compatible pipe ram
  - d. Shut-in using compatible pipe ram. (The HCR and choke will already be in the closed position.)
  - e. Confirm shut-in
  - f. Notify tool pusher/company representative
  - g. Read and record the following:
    - i. SIDPP and SICP
    - ii. Pit gain
    - iii. Time
    - iv. 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 drill pipe, and full opening safety valve and close
- e. Space out drill string with tool joint just beneath the upper pipe ram
- f. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
- g. Confirm shut-in
- h. Notify tool pusher/company representative
- i. Read and record the following:
  - i. SIDPP and SICP
  - ii. Pit gain
  - iii. Time
- j. Regroup and identify forward plan



#### **CONNECTION DATA SHEET**



# Make-up Torque (ft-lb)

22,500 **OPTI** 25,000 **MAX** 

Torque with Sealability (ft-lb)

36,000 **MTS** 

Locked Flank Torque (ft-lb)

4,500 **MIN**15,750 **MAX** 

(2) MTS: Maximum Torque with Sealability.

#### PIPE BODY PROPERTIES

Nominal OD	5.500	in.	
Nominal ID	4.778	in.	
Nominal Wall Thickness	0.361	in.	
Minimum Wall Thickness	87.5	%	
Nominal Weight (API)	20.00	lb/ft	
Plain End Weight	19.83	lb/ft	
Drift	4.653	in.	
Grade Type	Controlled Yield		
Minimum Yield Strength	110	ksi	
Minimum Yield Strength  Maximum Yield Strength	110 125	ksi ksi	
•			
Maximum Yield Strength	125	ksi	
Maximum Yield Strength  Minimum Ultimate Tensile Strength	125 140	ksi ksi	

#### **CONNECTION PROPERTIES**

Connection Type	Semi-Pr	emium Integral Semi-Flu
Nominal Connection OD	5.783	in.
Nominal Connection ID	4.718	in.
Make-up Loss	5.965	in.
Tension Efficiency	90	% Pipe Body
Compression Efficiency	90	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

#### JOINT PERFORMANCES

Tension Strength	577	klb
Compression Strength	577	klb
Internal Pressure Resistance	12,640	psi
External Pressure Resistance	11,110	psi
Maximum Bending, Structural	78	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft

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



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# **API BTC -Special** Clearance

Coupling Pipe Body Grade: I 80-IC Grade: I 80-IC Body: Red 1st Band: Red

1st Band: Brown 2nd Band: Brown 2nd Band: -3rd Band: Pale Green 3rd Band: -4th Band: -

Outside Diameter	10.750 in.	Wall Thickness	0.400 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	Alternative Drift	Туре	Casing
Connection OD Option	Special Clearance				

#### Pipe Body Data

Geometry			
Nominal OD	10.750 in.	Drift	9.875 in.
Wall Thickness	0.400 in.	Plain End Weight	44.26 lb/ft
Nominal Weight	45.500 lb/ft	OD Tolerance	API
Nominal ID	9.950 in.		

Performance	
SMYS	80,000 psi
Min UTS	95,000 psi
Body Yield Strength	1040 x1000 lb
Min. Internal Yield Pressure	5210 psi
Collapse Pressure	2950 psi
Max. Allowed Bending	34 °/100 ft

#### Connection Data

Geometry		Perfo
Thread per In	5	Joint St
Connection OD	11.250 in.	Couplin
Hand Tight Stand Off	1 in.	Internal

Performance	
Joint Strength	1041 x1000 lb
Coupling Face Load	478 x1000 lb
Internal Pressure Capacity	4150 psi

#### Notes

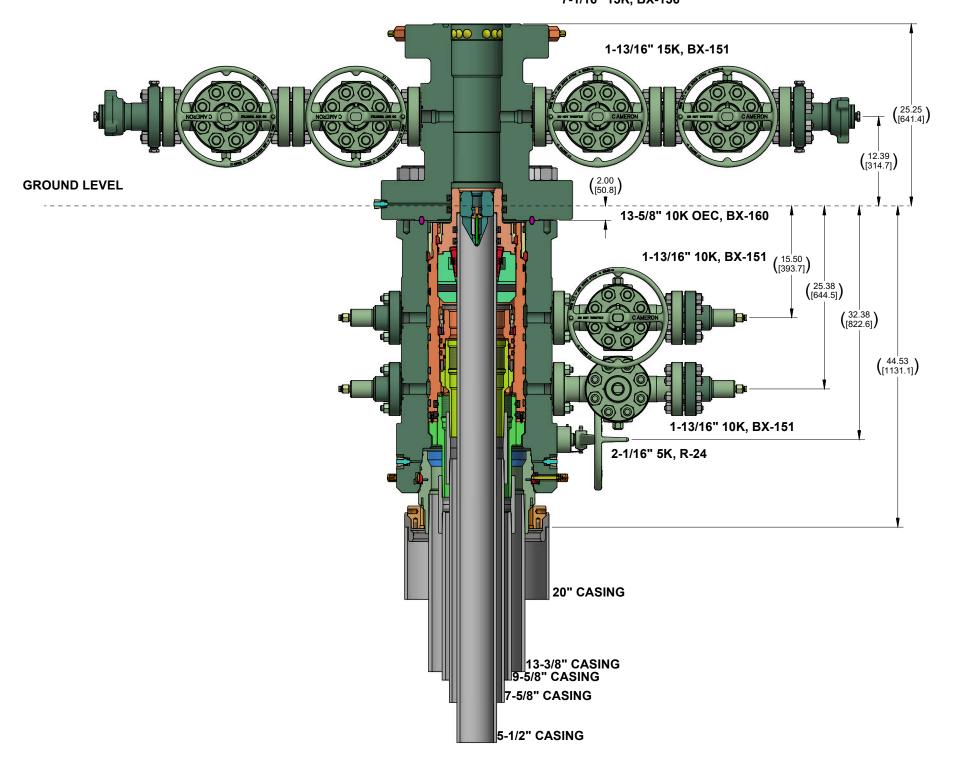
For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

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# 7-1/16" 15K, BX-156







#### 1. Casing Program

The designs and associated details listed in this document are the "worst case scenario" boundaries for design safety factors.

Location and lithology have NOT been accounted for in these designs; however, the designs are NOT valid for wells within KPLA Boundaries or Capitan Reef areas. The specific well details will be based on the APD/Sundry package and the information listed in the COA.

The mud program listed below will remain the same between each design variation.

Hole will be full during casing run for well control and tensile SF.

Casing will be kept at least half full during run for these designs to meet BLM collapse SF requirement.

		ı	MD	TVD					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	1200	0	1200	13.375	54.5	J-55	втс
Intermediate 1	12.25†	0	4832	0	4832	10.75	45.5	L-80 HC	BTC-SC
Intermediate 2	9.875	0	13111*	0	12775*	7.625	26.4	L-80 HC	BTC Axis-HT
Production	6.75	0	23361	0	12775	5.5	20	P-110	Wedge 461 Sprint SF DWC/C-HT-IS

<sup>\*</sup>Curve could be in intermediate or production section

†Oxy requests the option to set intermediate 1 casing shallower, yet still below the salts, if required due to losses or hole conditions. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run incase hole conditions merit pumping a second stage cement job to comply with the permitted top of cement. If cement is circulated to surface during first stage, Oxy will drop a cancelation cone and not pump the second stage. Well specific depths for the pad will be included with the casing setting depths information submitted for review.

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172.

All Casing SF Values will meet or						
exceed those below						
SF	SF	SF Body SF Joint S				
Collapse	pse Burst Tensi		Tension			
1.00	1.100	1.4	1.4			

#### §Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement. Please see Annular Clearance Variance attachment for further details.

§Annular Clearance Variance Request may not apply to all connections used or presented.





# 2. Trajectory / Boundary Conditions

	ME	)	TV	D		
Section	Deepest KOP (ft)	End Build (ft)	Deepest KOP (ft)	End Build (ft)	Max. Angle	Max. Planned DLS
Surface	0	1200	0	1200	5°	1°/100 ft
Salt	0	4832	0	4832	5°	1°/100 ft
Intermediate	5000 (inside Cherry Canyon)	6500	4980	6390	20°	2°/100 ft
	12211	13111	12202	12775	92°‡	12°/100 ft ‡
Production	12211 (~100' MD past ICP)	13111	12202	12775	92°‡	12°/100 ft ‡

<sup>‡</sup> Applies only when intermediate casing depth is deepened to landing point to match TVD of production in some areas where required to accommodate higher MWs in depleted areas.

Oxy has reviewed casing burst, collapse, and axial loadcases in Landmark StressCheck with the boundary conditions in the table above which satisfies Oxy and BLM minimum design criteria. Triaxial plots for each casing string is shown in Section 7 and intermediate load case inputs are shown in Section 8.

#### 3. Cementing Program

NOTE: Blanket design is for technical review only. The cement volumes will be adjusted to ensure cement tops meet BLM requirements.

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (Ib/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	1253	1.33	14.8	100%	12	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	4,332	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	676	1.73	12.9	50%	15	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 15 - Tail	793	1.68	13.2	5%	7,206	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 25 - Tail BH	1002	1.71	13.3	25%	- F	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	609	1.84	13.3	25%	12,611	Circulate	Class C+Ret.
Prod.	2*	Production - Tail	TBD	1.84	13.3	50%	500' inside previcing	Circulate	Class C+Ret.

<sup>\*</sup>Only applies in scenario where planned single stage job TOC is not 500' above previous shoe as designed/programmed requiring bradenhead 2nd stage to meet requirements

<u>As Reviewed and Approved by BLM on Feb 8, 2024</u>: Oxy uses a Class C / Pozzolan mix on its production cement slurry, which has the same fluid properties as Class H, and has been pilot and field blend tested to have as good or better compressive strength development at our target densities.

#### **Offline Cementing Request**

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.





#### **Bradenhead CBL Request**

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see Bradenhead CBL Variance attachment for further details.

#### 4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре	1	Tested to:	TVD Depth (ft) per Section:									
		5M	Annular	<b>√</b>	70% of working pressure										
			Blind Ram	<b>✓</b>											
12.25" Hole	13-5/8"	5M	Pipe Ram		250 psi / 5000 psi	4832									
		JIVI	Double Ram	✓	230 psi / 3000 psi										
			Other*												
		5M	Annular	<b>✓</b>	70% of working pressure										
	13-5/8"	13-5/8"										Blind Ram	<b>✓</b>		
9.875" Hole			5M	Pipe Ram		250 psi / 5000 psi	12102								
		JIVI	Double Ram	<b>✓</b>	230 psi / 3000 psi										
			Other*												
		5M	Annular	<b>✓</b>	100% of working pressure										
			Blind Ram	<b>√</b>											
6.75" Hole 13	13-5/8"	10M	Pipe Ram		250 psi / 10000 psi	12775									
		IOIVI	Double Ram	<b>✓</b>	200 psi / 10000 psi										
			Other*												

<sup>\*</sup>Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

#### **5M Annular BOP Request**

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are

<sup>\*\*</sup>Curve could be in intermediate or production section





Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.

On Exploratory wells or 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. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Coflex hoses are in compliance with API 16C and meets inspection and testing requirements. See attached for specs and hydrostatic test chart.

Υ

Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached Schematics.

#### **BOP Break Testing Request**

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

#### **Hammer Union Variance**

Oxy requests permission for hammer unions behind the choke to be routed to the gas buster. The hammer unions will not be subject to wellbore pressure in compliance with API STD 53.

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.





### 5. Mud Program & Drilling Conditions

S. M.	Deptl	ı - MD	Depth - TVD		T	Weight	¥7*	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	1200	0	1200	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	1200	4832	1200	4832	Saturated Brine-Based or Oil-Based Mud	8.0 – 10.0	35-45	N/C
Intermediate 2	1200	13111*	1200	12775*	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	13111	23361	12775	12775	Water-Based or Oil- Based Mud	9.5 - 13.5	38-50	N/C

<sup>\*</sup>Curve could be in intermediate or production section\*

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

#### **Drilling Blind Request**

In the event total losses are encountered in the intermediate section, Oxy requests permission to drill blind due to depleted formations where risk of hydrocarbon kicks are unlikely.

- Oxy will first attempt to cure losses before proceeding with drilling blind
- Drilling blind will only be allowed in the Castille and formations below
- While drilling blind, will monitor backside by filling-up on connections and utilizing gas monitors
- Depths at which losses occurred and attempt to cure losses with relevant details (LCM sweep info, etc.) will be documented in the drillers log and Subsequent Reports to the BLM.
- If a well control event (hydrocarbon kick) occurs while drilling blind, the BLM will be notified after the well is secured and returned to static.

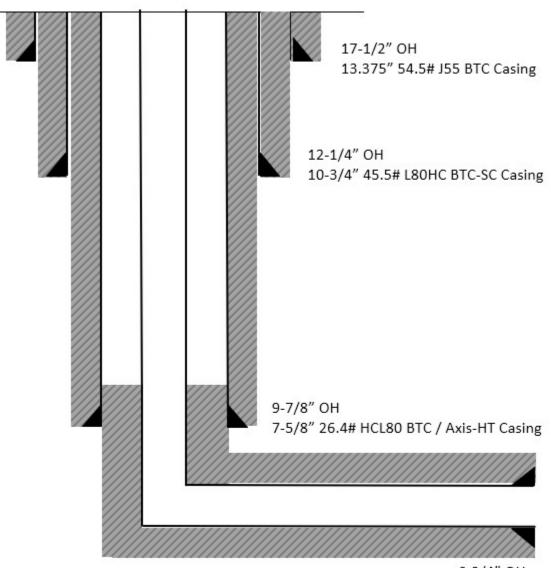
What will be used to monitor the	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	, ,

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.





# 6. Wellbore Diagram

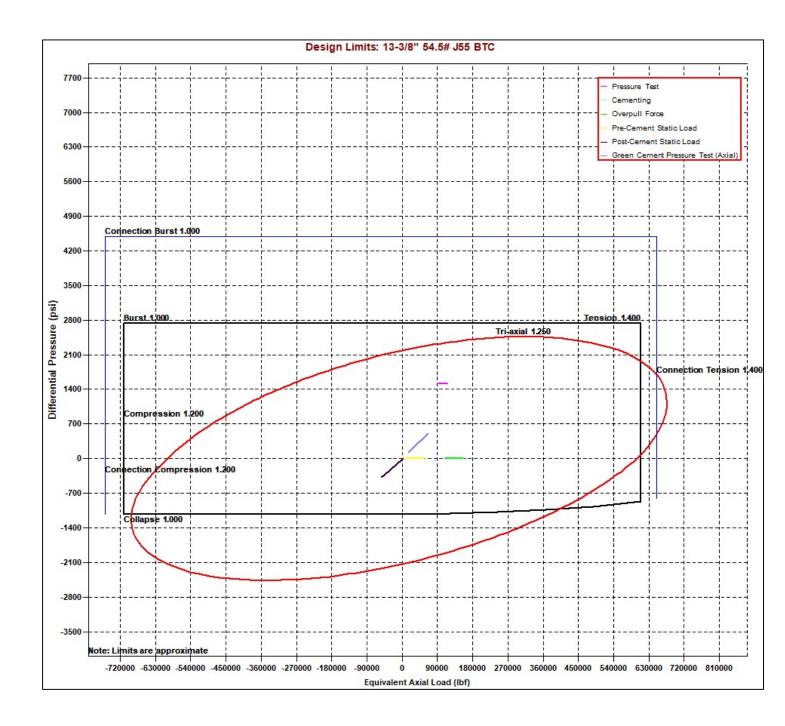


6-3/4" OH 5-1/2" 20# P110 Wedge 461 / Sprint SF / DWC/C-HT-IS Casing TOC @ 500' Above Prev Csg.





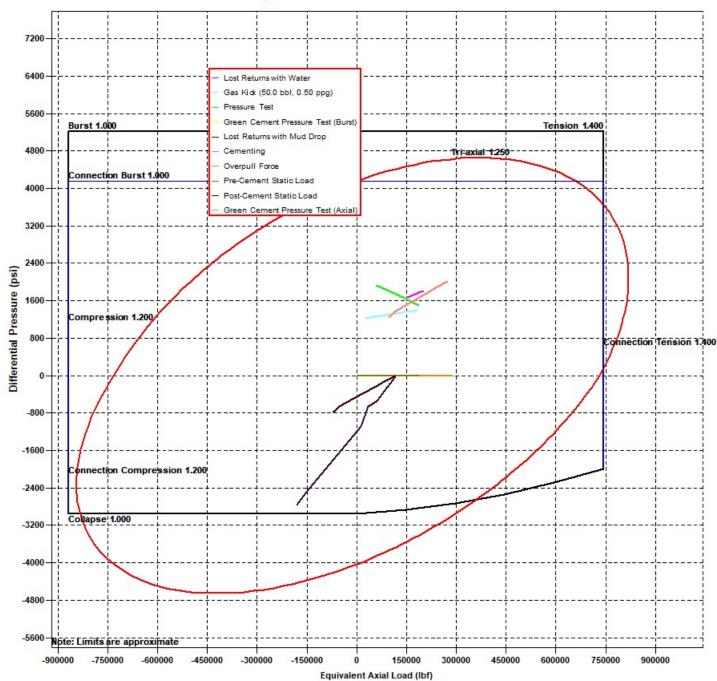
# 7. Landmark StressCheck Screenshots - Triaxial Output





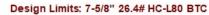


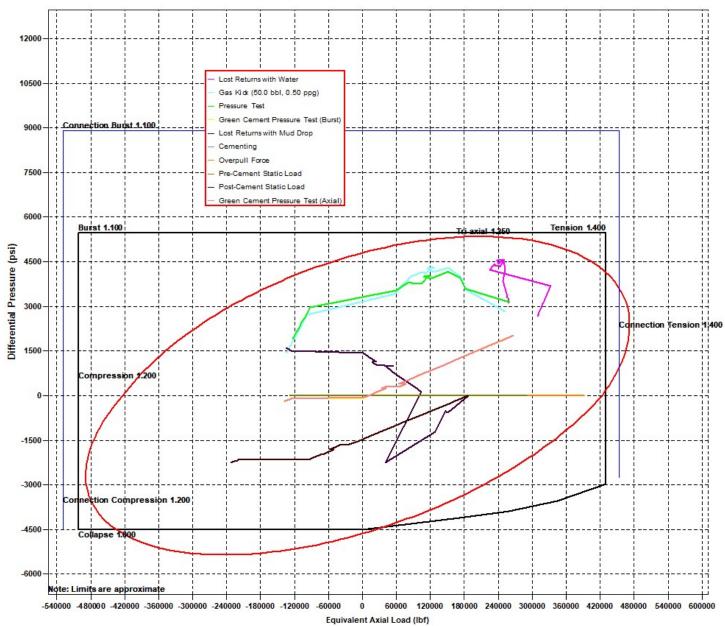
## Design Limits: 10-3/4" 45.5# HC-L80 BTC-SC





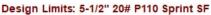


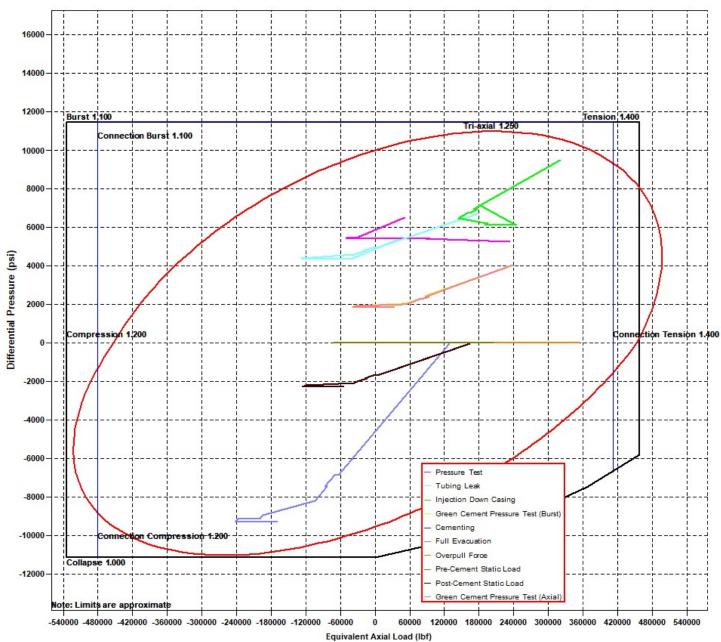










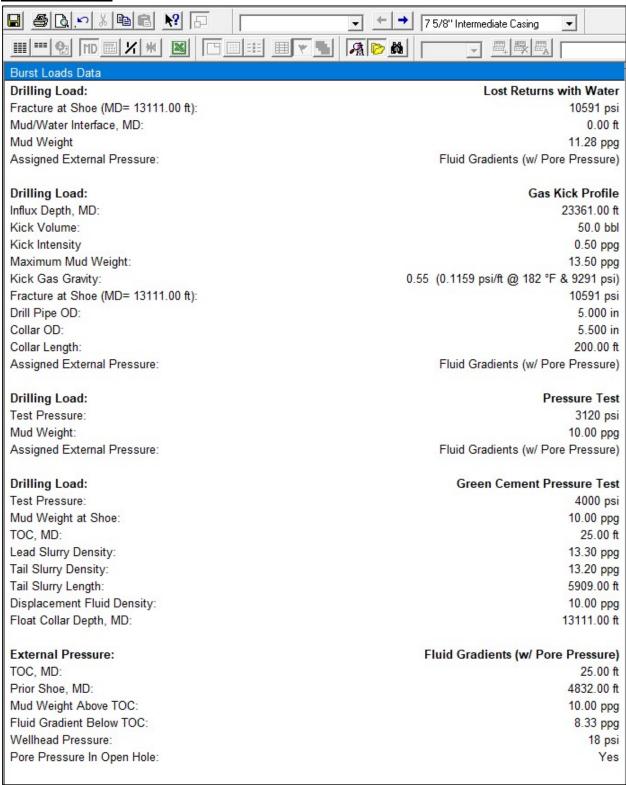






# 8. Landmark StressCheck Screenshots – Inputs for Intermediate 2 CSG Load Cases

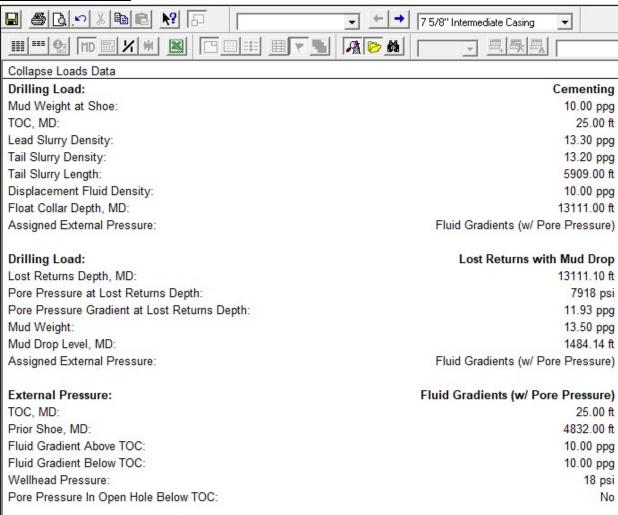
#### **Burst Load Cases**



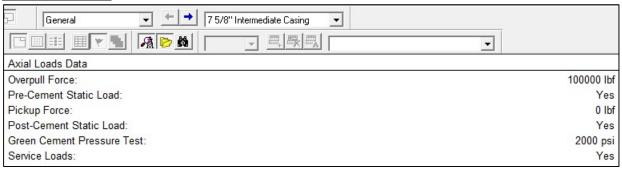




## **Collapse Load Cases**



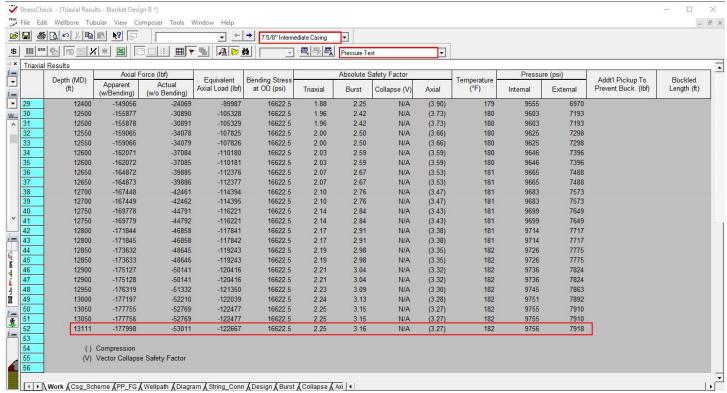
## **Axial Load Cases**







# 9. Landmark StressCheck Screenshot - Int. Casing Triaxial Results Table (Pressure Test)



Internal Pressure = Surface Pressure + Hydrostatic = 9756 psi External Pressure = Fluid Gradient w/ Pore Pressure = 7918 psi Burst SF = 3.16

NOTE: Specific load case inputs for the pressure test can be seen in **Section 8** above. The test pressure does not exceed 70% of the minimum internal yield.





Printed on: 06/19/2023

# 10. Intermediate Non-API Casing Spec Sheet

Tenaris **API BTC -Special** Clearance

Coupling Pipe Body Grade: J55 (Casing) Grade: J55 (Casing) Body: Bright Green 1st Band: Bright Green 1st Band: White 2nd Band: -2nd Band: -3rd Band: -3rd Band: -4th Band: -

Outside Diameter	10.750 in.	Wall Thickness	0.400 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	Aternative Drift	Туре	Casing
Connection OD Option	Special Clearance				

#### **Pipe Body Data**

Geometry			
Nominal OD	10.750 in.	Drift	9.875 in.
Wall Thickness	0.400 in.	Plain End Weight	44.26 lb/ft
Nominal Weight	45.500 lb/ft	OD Tolerance	API
Nominal ID	9.950 in.		

55,000 psi
75,000 psi
715 x1000 lb
3580 psi
2090 psi
23 °/100 ft

#### **Connection Data**

Geometry		Performance	
Thread per In	5	Joint Strength	796 x1000 lb
Connection OD	11.250 in.	Coupling Face Load	329 x1000 lb
Hand Tight Stand Off	1 in.	Internal Pressure Capacity	3290 psi

#### Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

(Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

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# **Technical Data Sheet**

7 5/8" 26.40 lbs/ft. L80HC - Axis HT

Mec	hanica	l Properties	
Minimum Yield Strength	psi.	80,000	
Maximum Yield Strength	psi.	95,000	
Minimum Tensile Strength	psi.	95,000	
	Dime	nsions	
		Pipe	AXIS HT
Outside Diameter	in.	7.625	8.500
Wall Thickness	in.	0.328	020
Inside Diameter	in.	6.969	101
Standard Drift	in.	6.844	6.844
Alternate Drift	in.	721	141
Plain End Weight	lbs/ft.	-	•
Nominal Linear Weight	lbs/ft.	26.40	
	Perfor	mance	
		Pipe	AXIS HT
Minimum Collapse Pressure	psi.	4,320	5 <del>=</del> 3
Minimum Internal Yield Pressure	psi.	6,020	6,020
Minimum Pipe Body Yield Strength	lbs.	602 x 1,000	020
Joint Strength	lbs.	(5)	635 x 1,000
M	ake-Up	Torques	
		Pipe	AXIS HT
Optimum Make-Up Torque	ft/lbs.	7/2/	8,000
Maximum Operational Torque	ft/lbs.	0.00	25,000

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# 11. Production Non-API Casing Spec Sheets





**■**Tenaris

# TenarisHydril Wedge 461 ® MS



	Printed on: 11/09
Coupling	Pipe Body
Grade: P1104CY	Grade: P110-ICY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-ICY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	MS				

#### Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		

Performance	
Body Yield Strength	729 x1000 lb
Min. Internal Yield Pressure	14,360 psi
SMYS	125,000 psi
Collapse Pressure	12,300 psi

#### **Connection Data**

Geometry	
Connection OD	6.050 in.
Coupling Length	7.714 in.
Connection ID	4.778 in.
Make-up Loss	3.775 in.
Threads per inch	3.40
Connection OD Option	Ms

Performance	
Tension Efficiency	100 %
Joint Yield Strength	729 x1000 lb
Internal Pressure Capacity	14,360 psi
Compression Efficiency	100 %
Compression Strength	729 x1000 lb
Max. Allowable Bending	104 °/100 ft
External Pressure Capacity	12,300 psi
Coupling Face Load	273,000 lb

17,000 ft-lb
18,000 ft-lb
21,600 ft-lb
43,000 ft-lb
51,000 ft-lb
21,600 ft-lb
23,100 ft-lb

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 / 0.361 in.
Wedge 461® - 5.5 in. - 0.304 / 0.415 / 0.476 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

For the lastest performance data, always visit our website: www.tenaris.com

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Generated on May 21, 2024



#### CONNECTION DATA SHEET





## PIPE BODY PROPERTIES =

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Wall Thickness	0.361	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	20.00	lb/ft
Plain End Weight	19.83	lb/ft
Drift	4.653	in.
Grade Type	API 5CT	
Minimum Yield Strength	110	ksi
Maximum Yield Strength	140	ksi
Minimum Ultimate Tensile Strength	125	ksi
Pipe Body Yield Strength	641	klb
Internal Yield Pressure	12,640	psi
Collapse Pressure	11,100	psi

#### CONNECTION PROPERTIES .

5.783	in.	
4 710		
4.710	in.	
5.965	in.	
90	% Pipe Body	
90	% Pipe Body	
100	% Pipe Body	
100	% Pipe Body	
	90 90 100	5.965 in. 90 % Pipe Body 90 % Pipe Body 100 % Pipe Body

#### JOINT PERFORMANCES

Tension Strength	577	klb
Compression Strength	577	klb
Internal Pressure Resistance	12,640	psi
External Pressure Resistance	11,100	psi
Maximum Bending, Structural	78	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft

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



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# DINC/C-Mr-15

### **Connection Data Sheet**

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	API DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 20.00 Plain End: 19.83	0.361	‡VST P110MY	4.653	87.5	DWC/C-HT-IS

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

Connection Type	Semi-Pren	nium T&C
Connection OD (nom)	6.050	in.
Connection ID (nom)	4.778	in.
Make-Up Loss	4.125	in.
Coupling Length	9.250	in.
Critical Cross Section	5.828	sq.in.
Tension Efficiency	89.1%	of pipe
Compression Efficiency	88.0%	of pipe
Internal Pressure Efficiency	86.1%	of pipe
External Pressure Efficiency	100.0%	of pipe

Yield Strength	649	klb
Parting Load	729	klt
Compression Rating	641	klt
Min. Internal Yield Pressure	12,360	ps
External Pressure Resistance	12,090	ps
Maximum Uniaxial Bend Rating	91.7	°/100 f
Reference String Length w 1.4 Design Factor	22,890	ft

FIELD TORQUE VALUES		
Min. Make-up torque	16,600	ft.II
Opti. Make-up torque	17,950	ft.II
Max. Make-up torque	19,300	ft.lt
Min. Shoulder Torque	1,660	ft.lt
Max. Shoulder Torque	13,280	ft.II
Max. Delta Turn	0.200	Turns
†Maximum Operational Torque	23,800	ft.lt
†Maximum Torsional Value (MTV)	26,180	ft.lt

† Maximum Operational Torque and Maximum Torsional Value only valid with Vallourec P110MY Material.

‡ P110MY - Coupling Min Yield Strength is 110ksi and Coupling Max Yield is 125ksi.

"VST = Vallourec Star as the mill source for the pipe, "P110EC" is the grade name"

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

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

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

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VAM® USA Sales E-mail: VAMUSAsales@vam-usa.com
Tech Support Email: tech.support@vam-usa.com

#### **DWC Connection Data Sheet Notes:**

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

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

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# Oxy USA Inc. - Blanket Design Pad Document

**OXY** - Blanket Design B

**Pad Name:** REDTNK\_T22SR32E\_25\_04 **SHL:** 210' FNL 1539' FEL, Sec 25, T22S-R32E

Oxy requests for the bellow wells to be approved for the two designs listed in the Blanket Design document (Blanket Design B – OXY – 4S Slim v3.2.) The MDs and TVDs for all intervals are within the boundary conditions. The max inclination and DLS are also within the boundary conditions (directional plans attached separately for review.)

#### 1. Blanket Design - Wells

Well Name		APD#	Surface		Salt		Intermediate		Production	
Wei	vvcii italile		MD	TVD	MD	TVD	MD	TVD	MD	TVD
Tuna Nut 24_13 Fed Com 613H		10400097829	1089	1089	4956	4956	11491	11433	22372	12061
Tuna Nut 24_13 Fed Com 64H		10400097805	1083	1083	4966	4966	11529	11529	22708	12202
Tuna Nut 24_13 Fed Com 612H		10400097736	1078	1078	4957	4957	11491	11431	22375	12061
Tuna Nut 24_13 Fed Com 65H		10400097962	1093	1093	4955	4955	11668	11565	22568	12203

#### 2. Review Criteria Table

		IV	ID	T	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	1089	0	1089	13.375	54.5	J-55	BTC
Salt	12.25	0	4956	0	4956	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	11491	0	11433	7.625	26.4	L-80 HC	BTC
Production	6.75	0	22372	0	12061	5.5	20	P-110	Sprint-SF

## 3. Geologic Formations

Formation	MD-RKB (ft)	TVD-RKB (ft)	<b>Expected Fluids</b>
Rustler	1029	1029	
Salado	1715	1715	Salt
Castile	3310	3310	Salt
Delaware	4956	4956	Oil/Gas/Brine
Bell Canyon	5017	5017	Oil/Gas/Brine
Cherry Canyon	5820	5820	Oil/Gas/Brine
<b>Brushy Canyon</b>	7144	7144	Losses
Bone Spring	8787	8771	Oil/Gas
Bone Spring 1st	9908	9875	Oil/Gas
Bone Spring 2nd	10603	10560	Oil/Gas
Bone Spring 3rd	11765	11700	Oil/Gas
Wolfcamp	12161	11989	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

## 4. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	1138	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	4,456	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	699	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	550	1.68	13.2	5%	7,394	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	1029	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	645	1.84	13.3	25%	10,991	Circulate	Class C+Ret.

PRD NM DIRECTIONAL PLANS (NAD 1983) Tuna Nut 24\_13 Fed Com Tuna Nut 24\_13 Fed Com 64H

Wellbore #1

**Plan: Permitting Plan** 

# **Standard Planning Report**

19 February, 2025

#### Planning Report

HOPSPP Database:

**ENGINEERING DESIGNS** Company:

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Tuna Nut 24\_13 Fed Com Well: Tuna Nut 24\_13 Fed Com 64H

Wellbore: Wellbore #1 Design: Permitting Plan Local Co-ordinate Reference:

**TVD Reference:** MD Reference: North Reference:

**Survey Calculation Method:** 

Well Tuna Nut 24\_13 Fed Com 64H

RKB=25' @ 3776.00ft RKB=25' @ 3776.00ft

Grid

Minimum Curvature

**Project** PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983 North American Datum 1983 Geo Datum:

Map Zone: New Mexico Eastern Zone System Datum:

Mean Sea Level

Using geodetic scale factor

Site Tuna Nut 24\_13 Fed Com

Site Position: Northing: 497,414.86 usft Latitude: 32.365515 From: Мар Easting: 757,769.29 usft Longitude: -103.632352

**Position Uncertainty:** 1.79 ft Slot Radius: 13.200 in

Well Tuna Nut 24\_13 Fed Com 64H

Well Position +N/-S 0.00 ft Northing: 498.880.03 usf Latitude: 32.369501 760,067.59 usf +E/-W 0.00 ft Easting: Longitude: -103.624877 **Position Uncertainty** 2.00 ft Wellhead Elevation: ft **Ground Level:** 3,751.00 ft

**Grid Convergence:** 0.38°

Wellbore Wellbore #1 **Model Name** Declination Field Strength Magnetics Sample Date Dip Angle (°) (nT)

HDGM FILE 2/19/2025 6.15 59.90 47,407.80000000

Design Permitting Plan

Audit Notes:

Version: Phase: **PROTOTYPE** Tie On Depth: 0.00

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 359.53

**Plan Survey Tool Program** Date 2/19/2025

Depth From Depth To

(ft) (ft) Survey (Wellbore) Remarks **Tool Name** 

0.00 22,707.89 Permitting Plan (Wellbore #1) B005Mc\_MWD+HRGM+SA

MWD+HRGM+Sag+MSA

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,629.00	0.00	0.00	11,629.00	0.00	0.00	0.00	0.00	0.00	0.00	
12,079.00	45.00	357.59	12,034.14	167.67	-7.06	10.00	10.00	0.00	357.59	
12,529.36	90.00	359.59	12,202.10	573.01	-15.81	10.00	9.99	0.44	2.83	
22,707.89	90.00	359.59	12,202.00	10,751.29	-88.40	0.00	0.00	0.00	0.00 P	BHL (Tuna Nut

## Planning Report

Database: Company: Project: HOPSPP

**ENGINEERING DESIGNS** 

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Tuna Nut 24\_13 Fed Com
Well: Tuna Nut 24\_13 Fed Com 64H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Tuna Nut 24\_13 Fed Com 64H

RKB=25' @ 3776.00ft RKB=25' @ 3776.00ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00 3,100.00 3,200.00 3,300.00 3,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3,000.00 3,100.00 3,200.00 3,300.00 3,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
3,500.00 3,600.00 3,700.00 3,800.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	3,500.00 3,600.00 3,700.00 3,800.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

# Planning Report

Database: Company: Project: HOPSPP

**ENGINEERING DESIGNS** 

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Tuna Nut 24\_13 Fed Com
Well: Tuna Nut 24\_13 Fed Com 64H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Tuna Nut 24\_13 Fed Com 64H

RKB=25' @ 3776.00ft RKB=25' @ 3776.00ft

Grid

elibore: esign:	Permitting Pla	an							
lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00
10,500.00	0.00	0.00	10,500.00	0.00	0.00	0.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,600.00	0.00	0.00	0.00	0.00	0.00	0.00
10,700.00	0.00	0.00	10,700.00	0.00	0.00	0.00	0.00	0.00	0.00
10,800.00	0.00	0.00	10,800.00	0.00	0.00	0.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00

# Planning Report

Database: Company: HOPSPP

**ENGINEERING DESIGNS** 

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Tuna Nut 24\_13 Fed Com
Well: Tuna Nut 24\_13 Fed Com 64H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Tuna Nut 24\_13 Fed Com 64H

RKB=25' @ 3776.00ft RKB=25' @ 3776.00ft

Grid

Design:	Permi	itting Pla	n							
Planned Survey	У									
Measur Depth (ft)			Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,000 11,100 11,200 11,300 11,400	).00 ).00 ).00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	11,000.00 11,100.00 11,200.00 11,300.00 11,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
11,500 11,600 11,629	0.00	0.00 0.00 0.00	0.00 0.00 0.00	11,500.00 11,600.00 11,629.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11,700		7.10	357.59	11,699.82	4.39	-0.18	4.39	10.00	10.00	0.00
11,800 11,900 12,000 12,079	0.00 0.00 0.00	17.10 27.10 37.10 45.00	357.59 357.59 357.59 357.59	11,797.47 11,890.01 11,974.61 12,034.14	25.31 62.85 115.87 167.67	-1.07 -2.65 -4.88 -7.06	25.31 62.87 115.91 167.72	10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00
	ue 10°/100'									
12,100 12,200	0.00	47.10 57.09	357.73 358.30	12,048.72 12,110.08	182.77 261.53	-7.67 -10.38	182.83 261.60	10.00 10.00	9.99 9.99	0.67 0.56
12,300 12,400 12,500 12,529	).00 ).00 ).36	67.08 77.07 87.07 90.00	358.75 359.13 359.49 359.59	12,156.84 12,187.57 12,201.35 12,202.10	349.75 444.76 543.67 573.01	-12.64 -14.39 -15.58 -15.81	349.84 444.86 543.78 573.12	10.00 10.00 10.00 10.00	9.99 9.99 9.99 9.99	0.45 0.39 0.36 0.35
	ng Point	00.00	050.50	10.000.10	0.40.05	40.00	040.77	0.00	0.00	0.00
12,600 12,700 12,800 12,900 13,000 13,100	0.00 0.00 0.00 0.00	90.00 90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59 359.59	12,202.10 12,202.10 12,202.10 12,202.10 12,202.10 12,202.10	643.65 743.65 843.65 943.65 1,043.64 1,143.64	-16.32 -17.03 -17.74 -18.46 -19.17 -19.88	643.77 743.77 843.77 943.77 1,043.77 1,143.77	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
13,200 13,300 13,400 13,500 13,600	0.00 0.00 0.00 0.00	90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59	12,202.10 12,202.10 12,202.09 12,202.09 12,202.09	1,243.64 1,343.64 1,443.63 1,543.63 1,643.63	-20.60 -21.31 -22.02 -22.74 -23.45	1,243.77 1,343.77 1,443.76 1,543.76 1,643.76	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
13,700 13,800 13,900 14,000 14,100	).00 ).00 ).00	90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59	12,202.09 12,202.09 12,202.09 12,202.09 12,202.09	1,743.63 1,843.62 1,943.62 2,043.62 2,143.61	-24.16 -24.88 -25.59 -26.30 -27.01	1,743.76 1,843.76 1,943.76 2,043.76 2,143.76	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
14,200 14,300 14,400 14,500 14,600	).00 ).00 ).00	90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59	12,202.09 12,202.08 12,202.08 12,202.08 12,202.08	2,243.61 2,343.61 2,443.61 2,543.60 2,643.60	-27.73 -28.44 -29.15 -29.87 -30.58	2,243.76 2,343.76 2,443.76 2,543.76 2,643.76	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
14,700 14,800 14,806 <b>PPP-1</b>	).00 5.40	90.00 90.00 90.00	359.59 359.59 359.59	12,202.08 12,202.08 12,202.08	2,743.60 2,843.60 2,850.00	-31.29 -32.01 -32.05	2,743.76 2,843.76 2,850.16	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
14.900		90.00	359.59	12,202.08	2,943.59	-32.72	2,943.76	0.00	0.00	0.00
15,000		90.00	359.59	12,202.08	3,043.59	-33.43	3,043.76	0.00	0.00	0.00
15,100 15,200 15,300 15,400 15,500	0.00 0.00 0.00 0.00	90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59	12,202.08 12,202.08 12,202.07 12,202.07 12,202.07	3,143.59 3,243.59 3,343.58 3,443.58 3,543.58	-34.15 -34.86 -35.57 -36.29 -37.00	3,143.76 3,243.76 3,343.76 3,443.76 3,543.76	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
15,600	0.00	90.00	359.59	12,202.07	3,643.58	-37.71	3,643.76	0.00	0.00	0.00

# Planning Report

Database: Company: HOPSPP

**ENGINEERING DESIGNS** 

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Tuna Nut 24\_13 Fed Com
Well: Tuna Nut 24\_13 Fed Com 64H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Tuna Nut 24\_13 Fed Com 64H

RKB=25' @ 3776.00ft RKB=25' @ 3776.00ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,700.00	90.00	359.59	12,202.07	3,743.57	-38.43	3,743.76	0.00	0.00	0.00
15,800.00	90.00	359.59	12,202.07	3,843.57	-39.14	3,843.76	0.00	0.00	0.00
15,900.00	90.00	359.59	12,202.07	3,943.57	-39.85	3,943.76	0.00	0.00	0.00
16,000.00	90.00	359.59	12,202.07	4,043.57	-40.56	4,043.76	0.00	0.00	0.00
16,100.00	90.00	359.59	12,202.07	4,143.56	-41.28	4,143.76	0.00	0.00	0.00
16,200.00	90.00	359.59	12,202.07	4,243.56	-41.99	4,243.76	0.00	0.00	0.00
16,300.00 16,400.00	90.00 90.00	359.59 359.59	12,202.06 12,202.06	4,343.56 4,443.56	-42.70 -43.42	4,343.76 4,443.76	0.00 0.00	0.00 0.00	0.00 0.00
16,500.00	90.00	359.59	12,202.06	4,543.55	-43.42 -44.13	4,543.76	0.00	0.00	0.00
				4,643.55	-44.84			0.00	
16,600.00 16,700.00	90.00 90.00	359.59 359.59	12,202.06 12,202.06	4,043.55 4,743.55	-44.84 -45.56	4,643.76 4,743.76	0.00 0.00	0.00	0.00 0.00
16,800.00	90.00	359.59	12,202.06	4,843.55	-46.27	4,843.76	0.00	0.00	0.00
16,900.00	90.00	359.59	12,202.06	4,943.54	-46.98	4,943.76	0.00	0.00	0.00
17,000.00	90.00	359.59	12,202.06	5,043.54	-47.70	5,043.76	0.00	0.00	0.00
17,100.00	90.00	359.59	12,202.06	5,143.54	-48.41	5,143.76	0.00	0.00	0.00
17,200.00	90.00	359.59	12,202.06	5,243.54	-49.12	5,243.76	0.00	0.00	0.00
17,300.00	90.00	359.59	12,202.05	5,343.53	-49.84	5,343.76	0.00	0.00	0.00
17,400.00	90.00	359.59	12,202.05	5,443.53	-50.55	5,443.76	0.00	0.00	0.00
17,446.47	90.00	359.59	12,202.05	5,490.00	-50.88	5,490.23	0.00	0.00	0.00
PPP-2 Cros									
17,500.00	90.00	359.59	12,202.05	5,543.53	-51.26	5,543.76	0.00	0.00	0.00
17,600.00 17,700.00	90.00 90.00	359.59 359.59	12,202.05 12,202.05	5,643.53 5,743.52	-51.98 -52.69	5,643.76 5,743.76	0.00 0.00	0.00 0.00	0.00 0.00
17,700.00	90.00	359.59	12,202.05	5,743.52	-52.69 -53.40	5,743.76	0.00	0.00	0.00
17,900.00	90.00	359.59	12,202.05	5,943.52	-54.12	5,943.76	0.00	0.00	0.00
18,000.00	90.00	359.59	12,202.05	6,043.52	-54.83	6,043.76	0.00	0.00	0.00
18,100.00	90.00	359.59	12,202.05	6,143.51	-55.54	6,143.76	0.00	0.00	0.00
18,200.00	90.00	359.59	12,202.05	6,243.51	-56.25	6,243.76	0.00	0.00	0.00
18,300.00	90.00	359.59	12,202.04	6,343.51	-56.97	6,343.76	0.00	0.00	0.00
18,400.00	90.00	359.59	12,202.04	6,443.51	-57.68	6,443.76	0.00	0.00	0.00
18,500.00	90.00	359.59	12,202.04	6,543.50	-58.39	6,543.76	0.00	0.00	0.00
18,600.00	90.00	359.59	12,202.04	6,643.50	-59.11	6,643.76	0.00	0.00	0.00
18,700.00 18,766.50	90.00 90.00	359.59 359.59	12,202.04 12,202.04	6,743.50 6,810.00	-59.82 -60.29	6,743.76 6,810.26	0.00 0.00	0.00 0.00	0.00 0.00
PPP-3 Cros		000.00	12,202.04	0,010.00	00.20	0,010.20	0.00	0.00	0.00
18,800.00	90.00	359.59	12,202.04	6,843.50	-60.53	6,843.76	0.00	0.00	0.00
18,900.00	90.00	359.59	12,202.04	6,943.49	-61.25	6.943.76	0.00	0.00	0.00
19,000.00	90.00	359.59	12,202.04	7,043.49	-61.96	7,043.76	0.00	0.00	0.00
19,100.00	90.00	359.59	12,202.04	7,143.49	-62.67	7,143.76	0.00	0.00	0.00
19,200.00	90.00	359.59	12,202.04	7,243.49	-63.39	7,243.76	0.00	0.00	0.00
19,300.00	90.00	359.59	12,202.03	7,343.48	-64.10	7,343.76	0.00	0.00	0.00
19,400.00	90.00	359.59	12,202.03	7,443.48	-64.81	7,443.76	0.00	0.00	0.00
19,500.00 19,600.00	90.00 90.00	359.59 359.59	12,202.03 12,202.03	7,543.48 7,643.48	-65.53 -66.24	7,543.76 7,643.76	0.00 0.00	0.00 0.00	0.00 0.00
19,700.00	90.00	359.59	12,202.03	7,743.47	-66.95	7,743.76	0.00	0.00	0.00
19,800.00	90.00	359.59	12,202.03	7,843.47	-67.67	7,843.76	0.00	0.00	0.00
19,900.00	90.00	359.59	12,202.03	7.943.47	-68.38	7,943.76	0.00	0.00	0.00
20,000.00	90.00	359.59	12,202.03	8,043.47	-69.09	8,043.76	0.00	0.00	0.00
20,100.00	90.00	359.59	12,202.03	8,143.46	-69.80	8,143.76	0.00	0.00	0.00
20,200.00	90.00	359.59	12,202.03	8,243.46	-70.52	8,243.76	0.00	0.00	0.00
20,300.00	90.00	359.59	12,202.02	8,343.46	-71.23	8,343.76	0.00	0.00	0.00
20,400.00	90.00	359.59	12,202.02	8,443.45	-71.94	8,443.76	0.00	0.00	0.00
20,500.00 20,600.00	90.00 90.00	359.59 359.59	12,202.02 12,202.02	8,543.45 8,643.45	-72.66 -73.37	8,543.76 8,643.76	0.00	0.00	0.00
20,600.00	90.00	359.59 359.59	12,202.02	8,643.45 8,743.45	-73.37 -74.08	8,643.76 8,743.76	0.00 0.00	0.00 0.00	0.00 0.00
20,700.00	30.00	000.00	12,202.02	0,170.70	77.00	0,1-10.10	0.00	0.00	0.00

## Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Tuna Nut 24\_13 Fed Com
Well: Tuna Nut 24\_13 Fed Com 64H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Tuna Nut 24\_13 Fed Com 64H

RKB=25' @ 3776.00ft RKB=25' @ 3776.00ft

Grid

Permitting Pia								
Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
90.00	359.59	12,202.02	8,843.44	-74.80	8,843.76	0.00	0.00	0.00
90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59	12,202.02 12,202.02 12,202.02 12,202.02 12,202.01	8,943.44 9,043.44 9,143.44 9,243.43 9,343.43	-75.51 -76.22 -76.94 -77.65 -78.36	8,943.76 9,043.76 9,143.76 9,243.76 9,343.76	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59	12,202.01 12,202.01 12,202.01 12,202.01 12,202.01	9,443.43 9,543.43 9,643.42 9,743.42 9,843.42	-79.08 -79.79 -80.50 -81.22 -81.93	9,443.76 9,543.76 9,643.76 9,743.76 9,843.76	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59	12,202.01 12,202.01 12,202.01 12,202.01 12,202.00	9,943.42 10,043.41 10,143.41 10,243.41 10,343.41	-82.64 -83.35 -84.07 -84.78 -85.49	9,943.76 10,043.76 10,143.76 10,243.76 10,343.76	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59	12,202.00 12,202.00 12,202.00 12,202.00 12,202.00	10,443.40 10,543.40 10,643.40 10,743.40 10,751.29	-86.21 -86.92 -87.63 -88.35 -88.40	10,443.76 10,543.76 10,643.76 10,743.76 10,751.65	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	Inclination (°)	Inclination (°)	Inclination (°)	Inclination	Inclination (°)	Inclination	Inclination

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Tuna Nut 24_13 - plan misses target - Point	0.00 center by 26	0.00 60.33ft at 0.0	0.00 Oft MD (0.0	260.03 0 TVD, 0.00 i	-12.42 N, 0.00 E)	499,140.05	760,055.17	32.370216	-103.624912
PBHL (Tuna Nut - plan hits target ce - Point	0.00 nter	0.00	12,202.00	10,751.29	-88.40	509,630.91	759,979.19	32.399053	-103.624933
FTP (Tuna Nut 24_13 - plan misses target - Point	0.00 center by 57		12,202.00 86.05ft MD	310.03 (12151.25 TV	-12.78 'D, 336.97 N,	499,190.05 -12.35 E)	760,054.81	32.370353	-103.624912

## **Planning Report**

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Tuna Nut 24\_13 Fed Com
Well: Tuna Nut 24\_13 Fed Com 64H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Tuna Nut 24\_13 Fed Com 64H

RKB=25' @ 3776.00ft RKB=25' @ 3776.00ft

Grid

ormations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,023.00	1,023.00	RUSTLER			
	1,708.00	1,708.00	SALADO			
	3,364.00	3,364.00	CASTILE			
	4,966.00	4,966.00	DELAWARE			
	5,020.00	5,020.00	BELL CANYON			
	5,796.00	5,796.00	CHERRY CANYON			
	7,130.00	7,130.00	BRUSHY CANYON			
	8,758.00	8,758.00	BONE SPRING			
	9,862.00	9,862.00	BONE SPRING 1ST			
	10,549.00	10,549.00	BONE SPRING 2ND			
	11,686.09	11,686.00	BONE SPRING 3RD			
	12,010.59	11,983.00	WOLFCAMP			
	12,047.14	12,011.00	WOLFCAMP			

Plan Annotations				
Measured	Vertical	Local Coo	rdinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
11,629.0 12.079.0	,	0.00 167.67	0.00 -7.06	KOP, Build & Turn 10°/100' Continue 10°/100'
12,529.3	- ,	573.01	-15.81	Landing Point
14,806.4 17.446.4	,	2,850.00 5.490.00	-32.05 -50.88	PPP-1 Cross PPP-2 Cross
18,766.5	,	6,810.00	-60.29	PPP-3 Cross
22,707.8	9 12,202.00	10,751.29	-88.40	TD at 22707.89' MD

# Oxy USA Inc. - Tuna Nut 24\_13 Fed Com 64H Drill Plan

## 1. Geologic Formations

TVD of Target (ft):	12202	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22708	Deepest Expected Fresh Water (ft):	1023

#### **Delaware Basin**

Formation	MD-RKB (ft)	TVD-RKB (ft)	<b>Expected Fluids</b>
Rustler	1023	1023	
Salado	1708	1708	Salt
Castile	3364	3364	Salt
Delaware	4966	4966	Oil/Gas/Brine
Bell Canyon	5020	5020	Oil/Gas/Brine
Cherry Canyon	5796	5796	Oil/Gas/Brine
Brushy Canyon	7130	7130	Losses
Bone Spring	8758	8758	Oil/Gas
Bone Spring 1st	9862	9862	Oil/Gas
Bone Spring 2nd	10549	10549	Oil/Gas
Bone Spring 3rd	11686	11686	Oil/Gas
Wolfcamp	12047	12011	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

<sup>\*</sup>H2S, water flows, loss of circulation, abnormal pressures, etc.

## 2. Casing Program

		N	ID	T۱	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	1083	0	1083	13.375	54.5	J-55	BTC
Salt	12.25	0	4966	0	4966	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	11529	0	11529	7.625	26.4	L-80 HC	BTC
Production	6.75	0	22708	0	12202	5.5	20	P-110	Sprint-SF

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

Tuna Nut 24\_13 Fed Com 64H

All Casing SF Values will meet or exceed							
those below							
SF	SF SF Body SF Joint SF						
Collapse	Burst	Tension	Tension				

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	1
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	
500' into previous casing?	
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	1131	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	4,466	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	701	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	557	1.68	13.2	5%	7,380	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	1026	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	661	1.84	13.3	25%	11,029	Circulate	Class C+Ret.

## **Offline Cementing Request**

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

## **Bradenhead CBL Request**

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see Bradenhead CBL Variance attachment for further details.

4. Pressure Control Equipment

4. Pressure Control Equipment							
BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	✓	Tested to:	TVD Depth (ft) per Section:
		5M		Annular	<b>\</b>	70% of working pressure	
				Blind Ram	<b>\</b>		
12.25" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	4966
		DIVI		Double Ram	✓	250 psi / 5000 psi	
			Other*				
		5M		Annular	✓	70% of working pressure	11529
		" 5M		Blind Ram	<b>✓</b>		
9.875" Hole	13-5/8"			Pipe Ram		250 poi / 5000 poi	
				Double Ram	<b>✓</b>	250 psi / 5000 psi	
			Other*				
		5M		Annular	<b>√</b>	100% of working pressure	
6.75" Hole				Blind Ram	✓		
	13-5/8"	1014		Pipe Ram		250 poi / 10000 poi	12202
		10M	Double Ram		<b>✓</b>	250 psi / 10000 psi	
			Other*				

#### \*Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

#### **5M Annular BOP Request**

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see Annular BOP Variance attachment for further details.

Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.

On Exploratory wells or 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. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached schematics.

#### **BOP Break Testing Request**

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.

5. Mud Program

	Depth		Depth - TVD			Weight		Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	1083	0	1083	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	1083	4966	1083	4966	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4966	11529	4966	11529	Water-Based or Oil- Based Mud	8.0 - 10.0	38-50	N/C
Production	11529	22708	11529	12202	Water-Based or Oil- Based Mud	9.5 - 12.5	38-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	F V 1/1VID TOLCO/ VISUAL IVIOLITIONING

6. Logging and Testing Procedures

Loggi	Logging, Coring and Testing.				
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).				
168	Stated logs run will be in the Completion Report and submitted to the BLM.				
No	Logs are planned based on well control or offset log information.				
No	Drill stem test? If yes, explain				
No	Coring? If yes, explain				

Addit	ional logs planned	Interval
No	Resistivity	
No	Density	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

## 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7932 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	178°F

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal

Hydrogen 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 part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to

the bi	HE BLIVI.				
N	H2S is present				
Υ	H2S Plan attached				

## 8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.  We plan to drill the 4 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe.  Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Total Estimated Cuttings Volume: 2005 bbls

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Submit Electronically Via OCD Permitting

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

Revised July 9, 2024
PAGE 1 OF 2

Submittal Type:

Initial Submittal Amended Report As Drilled

					WELL LOCATIO	N INFORMATION								
API Number Pool Code						Pool Name								
30-02	5-54618		98177	7		WC-025 G-09 S223332A; UPR WOLFCAMP								
Property Code Property Name								Well Number						
		64H												
OGRID	No.	Ground Level Elevation												
	16696 OXY USA INC. 3751'													
Surface	e Owner:	State	State Fee	Tribal 🗹 Federal										
Surface Location														
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County					
В	25	22S	32E		210' FNL	1569' FEL	32.36950070	-103.62487709	LEA					
	•	•	•	•	Rottom He	ole Location	•							
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83) County						
В	13	22S	32E		20' FNL	1580' FEL	32.39905249	-103.62493281	LEA					
			•			•	-							
Dedicated Acres Infill or Defining Well Defining					g Well API	t (Y/N)								
1280.00 <b>INFILL</b>				N/A	<b>\</b>	N		N/A						
Order l	Numbers: R	-23633				Well setbacks are unde	r Common Ownership	Yes X No	)					
					Kick Off I	Point (KOP)								
UL	Section	Township	Range	Lot Ft. from N/S		Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County					
О	24	22S	32E		50' FSL	1580' FEL	32.37021565	-103.62491174	LEA					
					First Take	Point (FTP)								
UL	Section	Township	Range	Lot Ft. from N/S		Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County					
О	24	22S	32E		100' FSL	1580' FEL	32.37035309	-103.62491183	LEA					
	Last Take Point (LTP)													
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County					
В	13	22S	32E		100' FNL	1580' FEL	32.39883259 -103.62493271 LI							
Unitized Area or Area of Uniform Interest				g .	II '. T		Ground Floor I	levation						
			N	Spacing	g Unit Type: X Horiz	ontal Vertical		3751'						

#### OPERATOR CERTIFICATIONS

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

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

#### Melíssa Guídr 03/31/25

Signature

Melissa Guidry

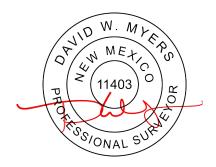
Printed Name

melissa\_guidry@oxy.com

**Email Address** 

#### SURVEYOR CERTIFICATIONS

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.



Signature and Seal of Professional Surveyor

Certificate Number

Date of Survey

**SEPTEMBER 18, 2024** 

BHL (NAD83) X:759979.19' / Y:509630.91' LAT:32.39905249 / LON:-103.62493281

BHL (NAD27) X:718796.77' / Y:509570.30' LAT:32.39892936 / LON:-103.62444661

#### ITP (NAD83)

X:759979.75' / Y:509550.91' LAT:32.39883259 / LON:-103.62493271

LTP (NAD27) X:718797.33' / Y:509490.29' LAT:32.39870945 / LON:-103.62444652

## PPP-3 (NAD83)

X:760007.73' / Y:505689.73' LAT:32.38821916 / LON:-103.62492494

**PPP-3** (NAD27) X:718825.21' / Y:505629.23' LAT:32.38809600 / LON:-103.62443911

#### PPP-2 (NAD83)

X:760017.29' / Y:504369.85' LAT:32.38459112 / LON:-103.62492228

#### **PPP-2** (NAD27)

X:718834.73' / Y:504309.38' LAT:32.38446795 / LON:-103.62443658

#### PPP-1 (NAD83)

X:760036.41' / Y:501730.11' LAT:32.37733512 / LON:-103.62491696

#### **PPP-1** (NAD27)

X:718853.79' / Y:501669.72' LAT:32.37721193 / LON:-103.62443152

#### FTP (NAD83)

X:760054.81' / Y:499190.05' LAT:32.37035309 / LON:-103.62491183

#### FTP (NAD27)

X:718872.13' / Y:499129.73' LAT:32.37022987 / LON:-103.62442663

#### KOP (NAD83)

X:760055.17' / Y:499140.05' LAT:32.37021565 / LON:-103.62491174

### KOP (NAD27)

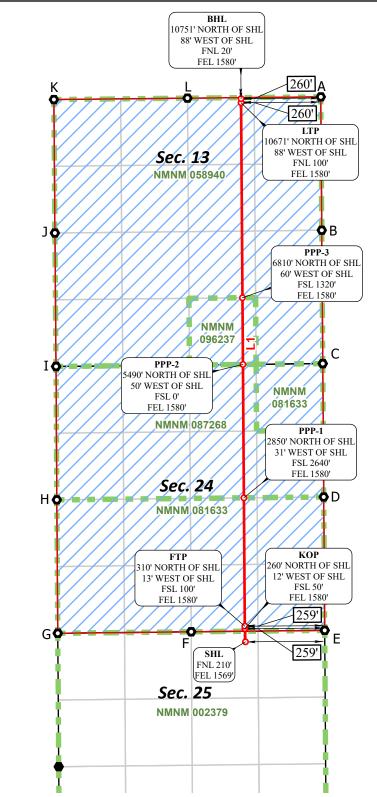
X:718872.48' / Y:499079.73' LAT:32.37009243 / LON:-103.62442655

#### SHL (NAD83)

X:760067.59' / Y:498880.03' LAT:32.36950070 / LON:-103.62487709

#### SHL (NAD27)

X:718884.90' / Y:498819.71' LAT:32.36937748 / LON:-103.62439192



CORNER COORDINATES
NAD 83, SPCS NM EAST
A - X: 761558.98' / Y:509666.12'
B - X: 761577.70' / Y:507026.11'
C - X: 761597.23' / Y:504386.86'
D - X: 761616.41' / Y:501747.24'
E - X: 761635.45' / Y:499107.07'
F - X: 758993.62' / Y:499078.62'
G - X: 756333.80' / Y:499049.16'
H - X: 756333.80' / Y:501689.98' CORNER COORDINATES NAD 27, SPCS NM EAST X: 720376.55' / Y:509605.50 X: 720395.20' / Y:506965.57 720414.67' 720433.78' Y:501686.85 720452.76' / 717810.94' / V-499046.75 Y:499018.31 715169.99' / Y:498988.85 H - X: 756333.80' / Y:501689.98 I - X: 756319.04' / Y:504329.83' : 715153.33 / : 715151.20' / : 715136.51' / Y:501629.59 Y:504269.37 J - X: 756295.56' / Y:506970.96' K - X: 756275.91' / Y:509612.69 715113.10' / Y:506910.43

FTP TO LTP LINE BEARING BEARING L1 N 00°24'54" W ~ 10361.13' \*FTP TO LTP LEASE DISTANC DISTANCE TRACT NMNM 081633 2540.13' NMNM 087268 2639.81 NMNM 096237 1319.91' NMNM 058940 3861.28' TOTAL 10361.13

O Drill Line Events All bearings and coordinates refer to New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet.

- X: 758919 12' / Y:509640 71

Section Corners

Drill Line

-- Dimension Lines

Federal Leases

✓ HSU

O HSU Corners

JOB No. R4195 015 13650 REV 0 NDS 9/18/2024

#### OXY APD CHANGE SUNDRY LIST FORM

DATE SUNDRY WORKSHEET CREATED	3/31/2025
WELL NAME_NUMBER	TUNA NUT 24_13 FED COM 64H
API NUMBER	PENDING
ESTIMATED SPUD DATE	4/10/2025

	ITEM APD BASE LINE (For Regulatory to Complete)									SUNDRY PLAN (Groups to complete the latest plan)									
	Date APD/BASE LINE APPROVED: 03/27/25										DATE Sundry Worksheet: 03/31/25								
	AME STACK CATS 25 36 FED COM 15H								TUNA NUT 24 13 FED COM 64H										
Surface Planning	NSL	NO NO							NO NO										
	SHL	210' FNL 1689' FEL							210' FNL 1569' FEL										
	PAD	REDTNK_T22SR32E_2504							REDTNK T22SR32E 2504										
	BHL 20 FSL 1310 FEL							20' FNL 1580' FEL											
	HSU SIZE, ACRES	640							1280										
	POOL	RED TANK, BONE SPRING							WC-025 G-09 S22333	2A, UPR WOLFCAMP						-			
	TVD	9569'									12202'								
	TARGET FORMATION	BONE SPRING								WOLFCAMP							7		
		APD BASE LINE												SUNE	ORY PLAN				
	ž	Section	Hole Size (in.)	MD	TVD	Csg OD	Csg WT	Grade		Conn.	Section	Hole Size (in.)	MD	TVD	Csg OD (in)	Csg WT (ppf)	Grade		Conn.
	i i	Surface	17.5	1080	1080	13.375	54.5	J-55		BTC	Surface	17.5	1083	1083	13.375	54.5	J-55	BTC	
	¥ X	Int	9.875	8865	8817	7.625	26.4	L-80 HC		BTC	Salt	12.25	4966	4966	10.75	45.5	L-80 HC	BTC -SC	
	9	Int2									Int	9.875	11529	11529	7.625	26.4	L-80 HC	BTC	
	<u> </u>	Prod	6.75	20164	9569	5.5	20	P-110		Wedge 461	Prod	6.75	22708	12202	5.5	20	P-110	Sprint-SF	
	J	Liner									Liner								
		APD BASE LINE								SUNDRY PLAN									
	T P ROGRAM	Section/Stage	Slurry		Yield (ft^3			TOC		Description	Section/Stage	Slurry	Sacks		Density (lb/gal)		TOC	Placement	Description
		Surf	Surface - Tail	1128	1.33	14.8	100%		Circulate	Class C+Accel	Surf	Surface - Tail	1131	1.33	14.8	100%		Circulate	Class C+Accel
0.0		Int/1	Intermediate 15 - Tail	199	1.65	13.2	5%	7411	Circulate	Class H+Accel, Disper, Salt	Int	Intermediate - Tail	85	1.33	14.8	20%	4466	Circulate	Class C+Accel
		Int2	Intermediate 2S - Tail BH	1342	1.71	13.3	25%		Bradenhead	Class C+Accel	Int	Intermediate - Lead	701	1.73	12.9	50%		Circulate	Class Pozz+Ret
5	<u>~</u>	Prod	Production - Tail	668	1.84	13.3	25%	8365	Circulate	Class C+Ret	Int2	Intermediate 1S - Tail	557	1.68	13.2	5%	7380	Circulate	Class C+Ret, Disper
	₹	-		1			-				Int2	Intermediate 2S - Tail BH Production - Tail	1026	1.71	13.3	25% 25%		Bradenhead Circulate	Class+Accel
						DD DACE III	15				Prod	Production - Tail	661		13.3	25%	11029	Circulate	Class C+Ret
		BOP Break Tesing V	APD BASE LINE					SUNDRY PLAN  BOP Break Tesing Variance X											
	v	5M Annular BOP Va		_ ^	1						5M Annular BOP Var		X						
	ğ		Bradenhead CBL Variance			x						Bradenhead CBL Variance X							
	<u> </u>	Offline Cementing V	×	-						oratemieau CDL variance A Offline Cementing Variance X									
	<b> </b>	Production Annular	×	-						Offine Cementing Variance A Production Annular Clearance Variance									
		Flexible Choke Line	<b>_^</b>							Flexible Choke Line \									
		(Pilot Hole, Logs etc								(Pilot Hole, Logs etc.)									
		(Prior noie, Logs etc.)						triiot riole, Logs etc.											

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

CONDITIONS

Action 457411

#### **CONDITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	457411
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	5/9/2025