

Well Name: NOW I WON 25-24 FEDERAL COM	Well Location: T22S / R31E / SEC 25 / SESW / 32.356438 / -103.7335818	County or Parish/State: EDDY / NM
Well Number: 1H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM25365	Unit or CA Name: Olive Won Unit	Unit or CA Number: NMNM106319137
US Well Number:	Operator: OXY USA INCORPORATED	

Notice of Intent

Sundry ID: 2835634

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 02/06/2025	Time Sundry Submitted: 07:36
Date proposed operation will begin: 02/17/2025	

Procedure Description: OXY USA INC., respectfully requests to amend the subject AAPD by revising the Well Name, SHL, BHL, HSU, TVD & Drill Plan as follows: Old Well Name: NOW I WON 25_24 FEDERAL COM 1H New Well Name: OLIVE WON UNIT 101H Old SHL: 445' FSL 1996' FWL New SHL: 445' FSL 2056' FWL Old BHL: 20' FNL 660' FWL New BHL: 20' FNL 400' FWL Old HSU: 320 acres New HSU: 640 acres Old TVD: 9739' New TVD: 9852' Attached is the updated C102, Drill Plan, Blanket Pad Design, Directional Survey & APD Change Sundry Worksheet

NOI Attachments

Procedure Description

- OLIVEWONUNIT101H_VAM_DWC_C_HT_IS_5.500in_20ppf_P110RY_20250206073346.pdf
- OLIVEWONUNIT101H_DirectPlan_20250206073336.pdf
- OLIVEWONUNIT101H_Blanket_Design_A___OXY___3S_Slim_v7.1_20250206073325.pdf
- OLIVEWONUNIT101H_Blanket_Design_A_Pad_Review_LSTTNK_T22SR31E_25_01_20250206073315.pdf
- OLIVEWONUNIT101H_DrillPlan_20250206073305.pdf
- OLIVEWONUNIT101H_C102_20250206073251.pdf
- OLIVEWONUNIT101H_APDCHGSUNDRYWORKSHEET_20250206073232.pdf

Received by OCD: 2/18/2025 9:04:42 AM

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Well Name: NOW I WON 25-24 FEDERAL COM	Well Location: T22S / R31E / SEC 25 / SESW / 32.356438 / -103.7335818	County or Parish/State: EDDY / NM
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Lease Number: NMNM25365	Unit or CA Name: Olive Won Unit	Unit or CA Number: NMNM106319137
US Well Number:	Operator: OXY USA INCORPORATED	

Conditions of Approval

Additional

OLIVE_WON_UNIT_101H__COA_20250212090033.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: FEB 06, 2025 07:34 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 Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 02/18/2025
Signature: Chris Walls	

Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021
SUNDRY NOTICES AND REPORTS ON WELLS <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No. NMNM25365
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No. Olive Won Unit/NMNM106319137
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. NOW I WON 25-24 FEDERAL COM/1H
2. Name of Operator OXY USA INCORPORATED		9. API Well No.
3a. Address P.O. BOX 1002, TUPMAN, CA 93276-1002	3b. Phone No. (include area code) (661) 763-6046	10. Field and Pool or Exploratory Area LIVINGSTON RIDGE/Bone Spring
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 25/T22S/R31E/NMP		11. Country or Parish, State EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA					
TYPE OF SUBMISSION		TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

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

OXY USA INC., respectfully requests to amend the subject AAPD by revising the Well Name, SHL, BHL, HSU, TVD & Drill Plan as follows:

Old Well Name: NOW I WON 25_24 FEDERAL COM 1H
New Well Name: OLIVE WON UNIT 101H

Old SHL: 445' FSL 1996' FWL
New SHL: 445' FSL 2056' FWL

Old BHL: 20' FNL 660' FWL
New BHL: 20' FNL 400' FWL

Old HSU: 320 acres
Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) MELISSA GUIDRY / Ph: (713) 497-2481	Advisor Regulatory Sr. Title
(Electronic Submission) Signature	Date 02/06/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 02/18/2025
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

New HSU: 640 acres

Old TVD: 9739'

New TVD: 9852'

Attached is the updated C102, Drill Plan, Blanket Pad Design, Directional Survey & APD Change Sundry Worksheet

Location of Well

0. SHL: SESW / 445 FSL / 1996 FWL / TWSP: 22S / RANGE: 31E / SECTION: 25 / LAT: 32.356438 / LONG: -103.7335818 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 0 FSL / 661 FWL / TWSP: 22S / RANGE: 31E / SECTION: 24 / LAT: 32.3697451 / LONG: -103.7379192 (TVD: 9708 feet, MD: 14847 feet)

PPP: SWSW / 100 FSL / 660 FWL / TWSP: 22S / RANGE: 31E / SECTION: 25 / LAT: 32.355505 / LONG: -103.7379042 (TVD: 9739 feet, MD: 10194 feet)

BHL: NWNW / 20 FNL / 660 FWL / TWSP: 22S / RANGE: 31E / SECTION: 24 / LAT: 32.3841915 / LONG: -103.7379343 (TVD: 9673 feet, MD: 20104 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INCORPORATED
WELL NAME & NO.:	OLIVE WON UNIT 101H
LOCATION:	Section 25, T.22 S., R.31 E.
COUNTY:	Eddy County, New Mexico

SUNDRY COA. ALL PREVIOUS COAs STILL APPLY

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

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

A1:

1. The 10-3/4 inch surface casing shall be set at approximately **903** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **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 **9388 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 Secretary Potash Areas 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 **20,347** 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 **903** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **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 **9388** 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 **20,347** 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 below the intermediate casing shoe shall be **5000 (5M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

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

D. SPECIAL REQUIREMENT (S)

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

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

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

minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 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 2/12/2025

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

NOW I WON 25_24 FED COM

NOW I WON 25_24 FED COM 1H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

28 January, 2025

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well NOW I WON 25_24 FED COM 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	Assumed RKB=25' @ 3524.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Assumed RKB=25' @ 3524.00ft
Site:	NOW I WON 25_24 FED COM	North Reference:	Grid
Well:	NOW I WON 25_24 FED COM 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Project	PRD NM DIRECTIONAL PLANS (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	NOW I WON 25_24 FED COM		
Site Position:		Northing:	493,922.75 usft
From:	Map	Easting:	726,411.88 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32.356440
		Longitude:	-103.733971

Well	NOW I WON 25_24 FED COM 1H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	2.00 ft	Wellhead Elevation:	3,498.00 ft
Grid Convergence:	0.32 °		
		Latitude:	32.356437
		Longitude:	-103.733388
		Ground Level:	3,499.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	2/28/2023	6.43	59.97	47,646.70000000

Design	Permitting Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	1.00	0.00	0.00	350.32

Plan Survey Tool Program	Date	1/28/2025		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,347.08	Permitting Plan (Wellbore #1)	B001Mc_MWD+HRGM_R5
				MWD+HRGM

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	
3,678.00	0.00	0.00	3,678.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,477.90	18.00	254.91	5,448.44	-72.98	-270.73	1.00	1.00	0.00	254.91	
9,488.20	18.00	254.91	9,262.49	-395.50	-1,467.20	0.00	0.00	0.00	0.00	
10,433.22	90.00	359.63	9,852.00	174.48	-1,656.14	10.00	7.62	11.08	104.03	
20,347.22	90.00	359.63	9,852.00	10,088.27	-1,720.13	0.00	0.00	0.00	0.00	PBHL (Now I Won)

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well NOW I WON 25_24 FED COM 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	Assumed RKB=25' @ 3524.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Assumed RKB=25' @ 3524.00ft
Site:	NOW I WON 25_24 FED COM	North Reference:	Grid
Well:	NOW I WON 25_24 FED COM 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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)
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	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,678.00	0.00	0.00	3,678.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1°/100'									
3,700.00	0.22	254.91	3,700.00	-0.01	-0.04	0.00	1.00	1.00	0.00
3,800.00	1.22	254.91	3,799.99	-0.34	-1.25	-0.12	1.00	1.00	0.00
3,900.00	2.22	254.91	3,899.94	-1.12	-4.15	-0.41	1.00	1.00	0.00
4,000.00	3.22	254.91	3,999.83	-2.35	-8.73	-0.85	1.00	1.00	0.00
4,100.00	4.22	254.91	4,099.62	-4.04	-15.00	-1.46	1.00	1.00	0.00
4,200.00	5.22	254.91	4,199.28	-6.18	-22.94	-2.24	1.00	1.00	0.00
4,300.00	6.22	254.91	4,298.78	-8.78	-32.57	-3.18	1.00	1.00	0.00
4,400.00	7.22	254.91	4,398.09	-11.82	-43.86	-4.28	1.00	1.00	0.00
4,500.00	8.22	254.91	4,497.18	-15.32	-56.83	-5.55	1.00	1.00	0.00
4,600.00	9.22	254.91	4,596.03	-19.27	-71.47	-6.98	1.00	1.00	0.00
4,700.00	10.22	254.91	4,694.59	-23.66	-87.77	-8.57	1.00	1.00	0.00
4,800.00	11.22	254.91	4,792.84	-28.50	-105.73	-10.32	1.00	1.00	0.00
4,900.00	12.22	254.91	4,890.76	-33.79	-125.35	-12.24	1.00	1.00	0.00
5,000.00	13.22	254.91	4,988.30	-39.52	-146.61	-14.32	1.00	1.00	0.00
5,100.00	14.22	254.91	5,085.45	-45.69	-169.51	-16.55	1.00	1.00	0.00
5,200.00	15.22	254.91	5,182.16	-52.31	-194.04	-18.95	1.00	1.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well NOW I WON 25_24 FED COM 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	Assumed RKB=25' @ 3524.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Assumed RKB=25' @ 3524.00ft
Site:	NOW I WON 25_24 FED COM	North Reference:	Grid
Well:	NOW I WON 25_24 FED COM 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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)
5,300.00	16.22	254.91	5,278.42	-59.36	-220.20	-21.50	1.00	1.00	0.00
5,400.00	17.22	254.91	5,374.19	-66.85	-247.98	-24.21	1.00	1.00	0.00
5,477.90	18.00	254.91	5,448.44	-72.98	-270.73	-26.44	1.00	1.00	0.00
Hold 18° Tangent									
5,500.00	18.00	254.91	5,469.46	-74.76	-277.32	-27.08	0.00	0.00	0.00
5,600.00	18.00	254.91	5,564.57	-82.80	-307.16	-29.99	0.00	0.00	0.00
5,700.00	18.00	254.91	5,659.67	-90.84	-336.99	-32.91	0.00	0.00	0.00
5,800.00	18.00	254.91	5,754.78	-98.88	-366.83	-35.82	0.00	0.00	0.00
5,900.00	18.00	254.91	5,849.89	-106.93	-396.66	-38.73	0.00	0.00	0.00
6,000.00	18.00	254.91	5,944.99	-114.97	-426.50	-41.65	0.00	0.00	0.00
6,100.00	18.00	254.91	6,040.10	-123.01	-456.33	-44.56	0.00	0.00	0.00
6,200.00	18.00	254.91	6,135.20	-131.05	-486.17	-47.47	0.00	0.00	0.00
6,300.00	18.00	254.91	6,230.31	-139.10	-516.00	-50.39	0.00	0.00	0.00
6,400.00	18.00	254.91	6,325.42	-147.14	-545.84	-53.30	0.00	0.00	0.00
6,500.00	18.00	254.91	6,420.52	-155.18	-575.67	-56.21	0.00	0.00	0.00
6,600.00	18.00	254.91	6,515.63	-163.22	-605.51	-59.13	0.00	0.00	0.00
6,700.00	18.00	254.91	6,610.74	-171.27	-635.34	-62.04	0.00	0.00	0.00
6,800.00	18.00	254.91	6,705.84	-179.31	-665.18	-64.95	0.00	0.00	0.00
6,900.00	18.00	254.91	6,800.95	-187.35	-695.01	-67.87	0.00	0.00	0.00
7,000.00	18.00	254.91	6,896.05	-195.39	-724.85	-70.78	0.00	0.00	0.00
7,100.00	18.00	254.91	6,991.16	-203.44	-754.68	-73.69	0.00	0.00	0.00
7,200.00	18.00	254.91	7,086.27	-211.48	-784.52	-76.61	0.00	0.00	0.00
7,300.00	18.00	254.91	7,181.37	-219.52	-814.35	-79.52	0.00	0.00	0.00
7,400.00	18.00	254.91	7,276.48	-227.56	-844.19	-82.43	0.00	0.00	0.00
7,500.00	18.00	254.91	7,371.58	-235.61	-874.02	-85.35	0.00	0.00	0.00
7,600.00	18.00	254.91	7,466.69	-243.65	-903.86	-88.26	0.00	0.00	0.00
7,700.00	18.00	254.91	7,561.80	-251.69	-933.69	-91.17	0.00	0.00	0.00
7,800.00	18.00	254.91	7,656.90	-259.73	-963.53	-94.08	0.00	0.00	0.00
7,900.00	18.00	254.91	7,752.01	-267.77	-993.36	-97.00	0.00	0.00	0.00
8,000.00	18.00	254.91	7,847.12	-275.82	-1,023.20	-99.91	0.00	0.00	0.00
8,100.00	18.00	254.91	7,942.22	-283.86	-1,053.03	-102.82	0.00	0.00	0.00
8,200.00	18.00	254.91	8,037.33	-291.90	-1,082.87	-105.74	0.00	0.00	0.00
8,300.00	18.00	254.91	8,132.43	-299.94	-1,112.70	-108.65	0.00	0.00	0.00
8,400.00	18.00	254.91	8,227.54	-307.99	-1,142.54	-111.56	0.00	0.00	0.00
8,500.00	18.00	254.91	8,322.65	-316.03	-1,172.37	-114.48	0.00	0.00	0.00
8,600.00	18.00	254.91	8,417.75	-324.07	-1,202.21	-117.39	0.00	0.00	0.00
8,700.00	18.00	254.91	8,512.86	-332.11	-1,232.04	-120.30	0.00	0.00	0.00
8,800.00	18.00	254.91	8,607.97	-340.16	-1,261.88	-123.22	0.00	0.00	0.00
8,900.00	18.00	254.91	8,703.07	-348.20	-1,291.71	-126.13	0.00	0.00	0.00
9,000.00	18.00	254.91	8,798.18	-356.24	-1,321.55	-129.04	0.00	0.00	0.00
9,100.00	18.00	254.91	8,893.28	-364.28	-1,351.38	-131.96	0.00	0.00	0.00
9,200.00	18.00	254.91	8,988.39	-372.33	-1,381.22	-134.87	0.00	0.00	0.00
9,300.00	18.00	254.91	9,083.50	-380.37	-1,411.05	-137.78	0.00	0.00	0.00
9,400.00	18.00	254.91	9,178.60	-388.41	-1,440.89	-140.70	0.00	0.00	0.00
9,488.20	18.00	254.91	9,262.49	-395.50	-1,467.20	-143.27	0.00	0.00	0.00
KOP, Build & Turn 10°/100'									
9,500.00	17.75	258.67	9,273.72	-396.33	-1,470.73	-143.49	10.00	-2.12	31.85
9,600.00	18.64	290.96	9,368.96	-393.60	-1,500.67	-135.77	10.00	0.89	32.29
9,700.00	23.95	314.61	9,462.26	-373.58	-1,530.13	-111.07	10.00	5.31	23.65
9,800.00	31.52	328.81	9,550.80	-336.87	-1,558.19	-70.17	10.00	7.57	14.20
9,900.00	40.08	337.70	9,631.89	-284.58	-1,584.00	-14.29	10.00	8.56	8.90
10,000.00	49.11	343.84	9,703.05	-218.32	-1,606.79	54.86	10.00	9.03	6.14
10,100.00	58.39	348.48	9,762.13	-140.09	-1,625.87	135.18	10.00	9.28	4.64
10,200.00	67.81	352.27	9,807.34	-52.26	-1,640.64	224.24	10.00	9.42	3.79
10,300.00	77.30	355.57	9,837.29	42.48	-1,650.66	319.33	10.00	9.49	3.30

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well NOW I WON 25_24 FED COM 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	Assumed RKB=25' @ 3524.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Assumed RKB=25' @ 3524.00ft
Site:	NOW I WON 25_24 FED COM	North Reference:	Grid
Well:	NOW I WON 25_24 FED COM 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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)
10,400.00	86.83	358.63	9,851.08	141.27	-1,655.63	417.55	10.00	9.53	3.06
10,433.22	90.00	359.63	9,852.00	174.48	-1,656.14	450.36	10.00	9.54	3.00
Landing Point									
10,500.00	90.00	359.63	9,852.00	241.25	-1,656.57	516.26	0.00	0.00	0.00
10,600.00	90.00	359.63	9,852.00	341.25	-1,657.21	614.94	0.00	0.00	0.00
10,700.00	90.00	359.63	9,852.00	441.25	-1,657.86	713.63	0.00	0.00	0.00
10,800.00	90.00	359.63	9,852.00	541.25	-1,658.50	812.31	0.00	0.00	0.00
10,900.00	90.00	359.63	9,852.00	641.24	-1,659.15	910.99	0.00	0.00	0.00
11,000.00	90.00	359.63	9,852.00	741.24	-1,659.80	1,009.68	0.00	0.00	0.00
11,100.00	90.00	359.63	9,852.00	841.24	-1,660.44	1,108.36	0.00	0.00	0.00
11,200.00	90.00	359.63	9,852.00	941.24	-1,661.09	1,207.05	0.00	0.00	0.00
11,300.00	90.00	359.63	9,852.00	1,041.24	-1,661.73	1,305.73	0.00	0.00	0.00
11,400.00	90.00	359.63	9,852.00	1,141.23	-1,662.38	1,404.41	0.00	0.00	0.00
11,500.00	90.00	359.63	9,852.00	1,241.23	-1,663.02	1,503.10	0.00	0.00	0.00
11,600.00	90.00	359.63	9,852.00	1,341.23	-1,663.67	1,601.78	0.00	0.00	0.00
11,700.00	90.00	359.63	9,852.00	1,441.23	-1,664.31	1,700.46	0.00	0.00	0.00
11,800.00	90.00	359.63	9,852.00	1,541.23	-1,664.96	1,799.15	0.00	0.00	0.00
11,900.00	90.00	359.63	9,852.00	1,641.22	-1,665.60	1,897.83	0.00	0.00	0.00
12,000.00	90.00	359.63	9,852.00	1,741.22	-1,666.25	1,996.52	0.00	0.00	0.00
12,100.00	90.00	359.63	9,852.00	1,841.22	-1,666.90	2,095.20	0.00	0.00	0.00
12,200.00	90.00	359.63	9,852.00	1,941.22	-1,667.54	2,193.88	0.00	0.00	0.00
12,300.00	90.00	359.63	9,852.00	2,041.21	-1,668.19	2,292.57	0.00	0.00	0.00
12,400.00	90.00	359.63	9,852.00	2,141.21	-1,668.83	2,391.25	0.00	0.00	0.00
12,500.00	90.00	359.63	9,852.00	2,241.21	-1,669.48	2,489.93	0.00	0.00	0.00
12,600.00	90.00	359.63	9,852.00	2,341.21	-1,670.12	2,588.62	0.00	0.00	0.00
12,700.00	90.00	359.63	9,852.00	2,441.21	-1,670.77	2,687.30	0.00	0.00	0.00
12,800.00	90.00	359.63	9,852.00	2,541.20	-1,671.41	2,785.99	0.00	0.00	0.00
12,900.00	90.00	359.63	9,852.00	2,641.20	-1,672.06	2,884.67	0.00	0.00	0.00
13,000.00	90.00	359.63	9,852.00	2,741.20	-1,672.71	2,983.35	0.00	0.00	0.00
13,100.00	90.00	359.63	9,852.00	2,841.20	-1,673.35	3,082.04	0.00	0.00	0.00
13,200.00	90.00	359.63	9,852.00	2,941.20	-1,674.00	3,180.72	0.00	0.00	0.00
13,300.00	90.00	359.63	9,852.00	3,041.19	-1,674.64	3,279.40	0.00	0.00	0.00
13,400.00	90.00	359.63	9,852.00	3,141.19	-1,675.29	3,378.09	0.00	0.00	0.00
13,500.00	90.00	359.63	9,852.00	3,241.19	-1,675.93	3,476.77	0.00	0.00	0.00
13,600.00	90.00	359.63	9,852.00	3,341.19	-1,676.58	3,575.46	0.00	0.00	0.00
13,700.00	90.00	359.63	9,852.00	3,441.19	-1,677.22	3,674.14	0.00	0.00	0.00
13,800.00	90.00	359.63	9,852.00	3,541.18	-1,677.87	3,772.82	0.00	0.00	0.00
13,900.00	90.00	359.63	9,852.00	3,641.18	-1,678.52	3,871.51	0.00	0.00	0.00
14,000.00	90.00	359.63	9,852.00	3,741.18	-1,679.16	3,970.19	0.00	0.00	0.00
14,100.00	90.00	359.63	9,852.00	3,841.18	-1,679.81	4,068.87	0.00	0.00	0.00
14,200.00	90.00	359.63	9,852.00	3,941.18	-1,680.45	4,167.56	0.00	0.00	0.00
14,300.00	90.00	359.63	9,852.00	4,041.17	-1,681.10	4,266.24	0.00	0.00	0.00
14,400.00	90.00	359.63	9,852.00	4,141.17	-1,681.74	4,364.93	0.00	0.00	0.00
14,500.00	90.00	359.63	9,852.00	4,241.17	-1,682.39	4,463.61	0.00	0.00	0.00
14,600.00	90.00	359.63	9,852.00	4,341.17	-1,683.03	4,562.29	0.00	0.00	0.00
14,700.00	90.00	359.63	9,852.00	4,441.16	-1,683.68	4,660.98	0.00	0.00	0.00
14,800.00	90.00	359.63	9,852.00	4,541.16	-1,684.32	4,759.66	0.00	0.00	0.00
14,900.00	90.00	359.63	9,852.00	4,641.16	-1,684.97	4,858.34	0.00	0.00	0.00
15,000.00	90.00	359.63	9,852.00	4,741.16	-1,685.62	4,957.03	0.00	0.00	0.00
15,090.84	90.00	359.63	9,852.00	4,832.00	-1,686.20	5,046.67	0.00	0.00	0.00
PPP-1 Cross									
15,100.00	90.00	359.63	9,852.00	4,841.16	-1,686.26	5,055.71	0.00	0.00	0.00
15,200.00	90.00	359.63	9,852.00	4,941.15	-1,686.91	5,154.40	0.00	0.00	0.00
15,300.00	90.00	359.63	9,852.00	5,041.15	-1,687.55	5,253.08	0.00	0.00	0.00
15,400.00	90.00	359.63	9,852.00	5,141.15	-1,688.20	5,351.76	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well NOW I WON 25_24 FED COM 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	Assumed RKB=25' @ 3524.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Assumed RKB=25' @ 3524.00ft
Site:	NOW I WON 25_24 FED COM	North Reference:	Grid
Well:	NOW I WON 25_24 FED COM 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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)
15,500.00	90.00	359.63	9,852.00	5,241.15	-1,688.84	5,450.45	0.00	0.00	0.00
15,600.00	90.00	359.63	9,852.00	5,341.15	-1,689.49	5,549.13	0.00	0.00	0.00
15,700.00	90.00	359.63	9,852.00	5,441.14	-1,690.13	5,647.81	0.00	0.00	0.00
15,800.00	90.00	359.63	9,852.00	5,541.14	-1,690.78	5,746.50	0.00	0.00	0.00
15,900.00	90.00	359.63	9,852.00	5,641.14	-1,691.43	5,845.18	0.00	0.00	0.00
16,000.00	90.00	359.63	9,852.00	5,741.14	-1,692.07	5,943.87	0.00	0.00	0.00
16,100.00	90.00	359.63	9,852.00	5,841.14	-1,692.72	6,042.55	0.00	0.00	0.00
16,200.00	90.00	359.63	9,852.00	5,941.13	-1,693.36	6,141.23	0.00	0.00	0.00
16,300.00	90.00	359.63	9,852.00	6,041.13	-1,694.01	6,239.92	0.00	0.00	0.00
16,400.00	90.00	359.63	9,852.00	6,141.13	-1,694.65	6,338.60	0.00	0.00	0.00
16,500.00	90.00	359.63	9,852.00	6,241.13	-1,695.30	6,437.28	0.00	0.00	0.00
16,600.00	90.00	359.63	9,852.00	6,341.13	-1,695.94	6,535.97	0.00	0.00	0.00
16,700.00	90.00	359.63	9,852.00	6,441.12	-1,696.59	6,634.65	0.00	0.00	0.00
16,800.00	90.00	359.63	9,852.00	6,541.12	-1,697.23	6,733.34	0.00	0.00	0.00
16,900.00	90.00	359.63	9,852.00	6,641.12	-1,697.88	6,832.02	0.00	0.00	0.00
17,000.00	90.00	359.63	9,852.00	6,741.12	-1,698.53	6,930.70	0.00	0.00	0.00
17,100.00	90.00	359.63	9,852.00	6,841.11	-1,699.17	7,029.39	0.00	0.00	0.00
17,200.00	90.00	359.63	9,852.00	6,941.11	-1,699.82	7,128.07	0.00	0.00	0.00
17,300.00	90.00	359.63	9,852.00	7,041.11	-1,700.46	7,226.75	0.00	0.00	0.00
17,400.00	90.00	359.63	9,852.00	7,141.11	-1,701.11	7,325.44	0.00	0.00	0.00
17,500.00	90.00	359.63	9,852.00	7,241.11	-1,701.75	7,424.12	0.00	0.00	0.00
17,600.00	90.00	359.63	9,852.00	7,341.10	-1,702.40	7,522.81	0.00	0.00	0.00
17,700.00	90.00	359.63	9,852.00	7,441.10	-1,703.04	7,621.49	0.00	0.00	0.00
17,800.00	90.00	359.63	9,852.00	7,541.10	-1,703.69	7,720.17	0.00	0.00	0.00
17,900.00	90.00	359.63	9,852.00	7,641.10	-1,704.34	7,818.86	0.00	0.00	0.00
18,000.00	90.00	359.63	9,852.00	7,741.10	-1,704.98	7,917.54	0.00	0.00	0.00
18,100.00	90.00	359.63	9,852.00	7,841.09	-1,705.63	8,016.22	0.00	0.00	0.00
18,200.00	90.00	359.63	9,852.00	7,941.09	-1,706.27	8,114.91	0.00	0.00	0.00
18,300.00	90.00	359.63	9,852.00	8,041.09	-1,706.92	8,213.59	0.00	0.00	0.00
18,400.00	90.00	359.63	9,852.00	8,141.09	-1,707.56	8,312.28	0.00	0.00	0.00
18,500.00	90.00	359.63	9,852.00	8,241.09	-1,708.21	8,410.96	0.00	0.00	0.00
18,600.00	90.00	359.63	9,852.00	8,341.08	-1,708.85	8,509.64	0.00	0.00	0.00
18,700.00	90.00	359.63	9,852.00	8,441.08	-1,709.50	8,608.33	0.00	0.00	0.00
18,800.00	90.00	359.63	9,852.00	8,541.08	-1,710.14	8,707.01	0.00	0.00	0.00
18,900.00	90.00	359.63	9,852.00	8,641.08	-1,710.79	8,805.69	0.00	0.00	0.00
19,000.00	90.00	359.63	9,852.00	8,741.08	-1,711.44	8,904.38	0.00	0.00	0.00
19,100.00	90.00	359.63	9,852.00	8,841.07	-1,712.08	9,003.06	0.00	0.00	0.00
19,200.00	90.00	359.63	9,852.00	8,941.07	-1,712.73	9,101.75	0.00	0.00	0.00
19,300.00	90.00	359.63	9,852.00	9,041.07	-1,713.37	9,200.43	0.00	0.00	0.00
19,400.00	90.00	359.63	9,852.00	9,141.07	-1,714.02	9,299.11	0.00	0.00	0.00
19,500.00	90.00	359.63	9,852.00	9,241.06	-1,714.66	9,397.80	0.00	0.00	0.00
19,600.00	90.00	359.63	9,852.00	9,341.06	-1,715.31	9,496.48	0.00	0.00	0.00
19,700.00	90.00	359.63	9,852.00	9,441.06	-1,715.95	9,595.16	0.00	0.00	0.00
19,800.00	90.00	359.63	9,852.00	9,541.06	-1,716.60	9,693.85	0.00	0.00	0.00
19,900.00	90.00	359.63	9,852.00	9,641.06	-1,717.25	9,792.53	0.00	0.00	0.00
20,000.00	90.00	359.63	9,852.00	9,741.05	-1,717.89	9,891.22	0.00	0.00	0.00
20,100.00	90.00	359.63	9,852.00	9,841.05	-1,718.54	9,989.90	0.00	0.00	0.00
20,200.00	90.00	359.63	9,852.00	9,941.05	-1,719.18	10,088.58	0.00	0.00	0.00
20,300.00	90.00	359.63	9,852.00	10,041.05	-1,719.83	10,187.27	0.00	0.00	0.00
20,347.22	90.00	359.63	9,852.00	10,088.27	-1,720.13	10,233.87	0.00	0.00	0.00
TD at 20347.22' MD									

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well NOW I WON 25_24 FED COM 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	Assumed RKB=25' @ 3524.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Assumed RKB=25' @ 3524.00ft
Site:	NOW I WON 25_24 FED COM	North Reference:	Grid
Well:	NOW I WON 25_24 FED COM 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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 (Now I Won - plan misses target center by 1699.44ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-397.31	-1,652.35	493,525.47	724,939.53	32.355371	-103.738746
PBHL (Now I Won - plan hits target center - Point	0.00	0.00	9,852.00	10,088.27	-1,720.13	504,010.49	724,871.75	32.384192	-103.738777
FTP (Now I Won - plan misses target center by 202.33ft at 10000.00ft MD (9703.05 TVD, -218.32 N, -1606.79 E) - Point	0.00	0.00	9,852.00	-347.31	-1,652.77	493,575.47	724,939.11	32.355508	-103.738746

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
843.00	843.00	RUSTLER			
1,120.00	1,120.00	SALADO			
3,065.00	3,065.00	CASTILE			
4,479.61	4,477.00	DELAWARE			
4,535.19	4,532.00	BELL CANYON			
5,386.19	5,361.00	CHERRY CANYON			
6,688.71	6,600.00	BRUSHY CANYON			
8,527.71	8,349.00	BONE SPRING			
9,706.29	9,468.00	BONE SPRING 1ST			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,678.00	3,678.00	0.00	0.00	Build 1°/100'
5,477.90	5,448.44	-72.98	-270.73	Hold 18° Tangent
9,488.20	9,262.49	-395.50	-1,467.20	KOP, Build & Turn 10°/100'
10,433.22	9,852.00	174.48	-1,656.14	Landing Point
15,090.84	9,852.00	4,832.00	-1,686.20	PPP-1 Cross
20,347.22	9,852.00	10,088.27	-1,720.13	TD at 20347.22' MD



Oxy Bulk Design - Casing Design "A"



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.

Design Variation "A1"

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	14.75	0	1200	0	1200	10.75	45.5	J-55	BTC
Intermediate	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

*Curve could be in intermediate or production section

Design Variation "A2" - Option to Pivot to Design "B" for Contingency 4S

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	17.5	0	1200	0	1200	13.375	54.5	J-55	BTC
Intermediate	12.25†	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

*Curve could be in intermediate or production section

†If 4S Contingency is not required, Oxy requests permission to transition from 12.25" to 9.875" Intermediate at some point during the hole section. Cement volumes will be updated on C103 submission.

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 Collapse	SF Burst	Body SF Tension	Joint SF Tension
1.00	1.100	1.4	1.4



Oxy Bulk Design - Casing Design "A"



§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

Section	MD		TVD		Max. Angle	Max. Planned DLS
	Deepest KOP (ft)	End Build (ft)	Deepest KOP (ft)	End Build (ft)		
Surface	0	1200	0	1200	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 ‡

‡ 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.



Oxy Bulk Design - Casing Design "A"



3. Cementing Program

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

Design Variation "A1"

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	819	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	658	1.68	13.2	5%	7,206	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1111	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	665	1.84	13.3	25%	11,611	Circulate	Class C+Ret.
Prod.	2*	Production - Tail BH*	TBD	1.84	13.3	50%	500' inside prev csg	Circulate	Class C+Ret.

*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

Design Variation "A2"

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	1023	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	658	1.68	13.2	5%	7,206	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1293	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	665	1.84	13.3	25%	11,611	Circulate	Class C+Ret.
Prod.	2*	Production - Tail BH*	TBD	1.84	13.3	50%	500' inside prev csg	Circulate	Class C+Ret.

*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

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.



Oxy Bulk Design - Casing Design "A"



4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type		✓	Tested to:	Deepest TVD Depth (ft) per Section:
9.875" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	12775**
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				
6.75" Hole	13-5/8"	5M	Annular		✓	100% of working pressure	12775
		10M	Blind Ram		✓	250 psi / 10000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				

*Specify if additional ram is utilized

**Curve could be in intermediate or production section

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



Oxy Bulk Design - Casing Design "A"



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.

Y

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.



Oxy Bulk Design - Casing Design "A"



5. Mud Program & Drilling Conditions

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	1200	0	1200	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	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

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 utilize 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 loss or gain of fluid?

PVT/MD Totco/Visual Monitoring

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.

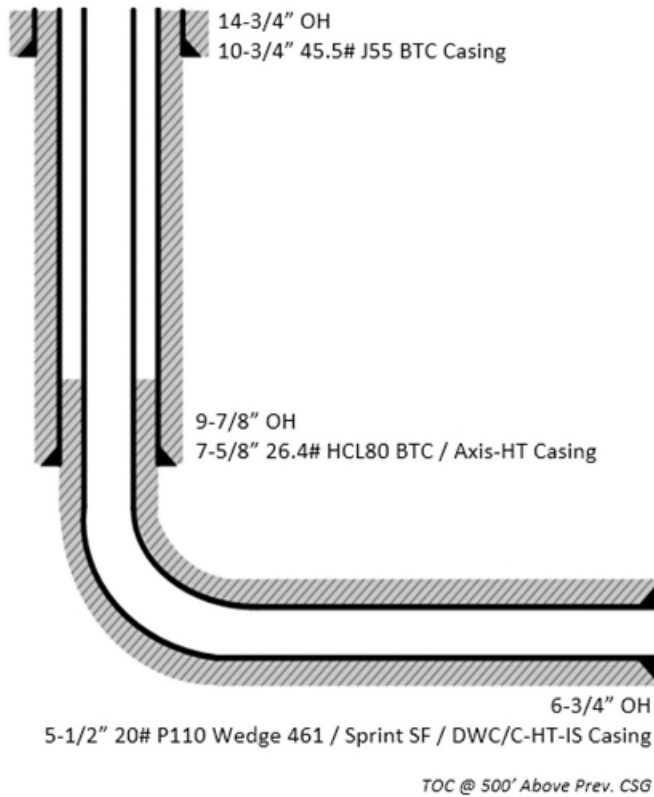


Oxy Bulk Design - Casing Design "A"

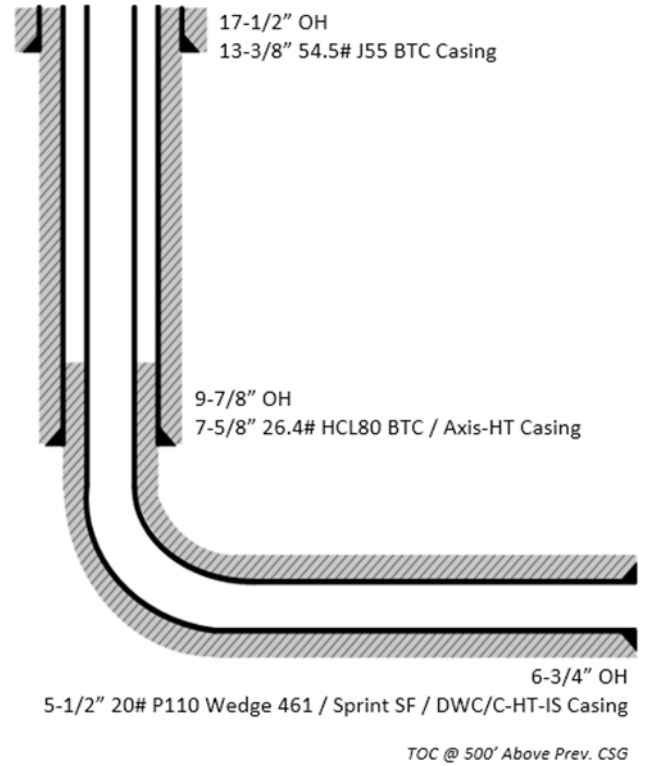


6. Wellbore Diagram(s)

Design Variation "A1"



Design Variation "A2"

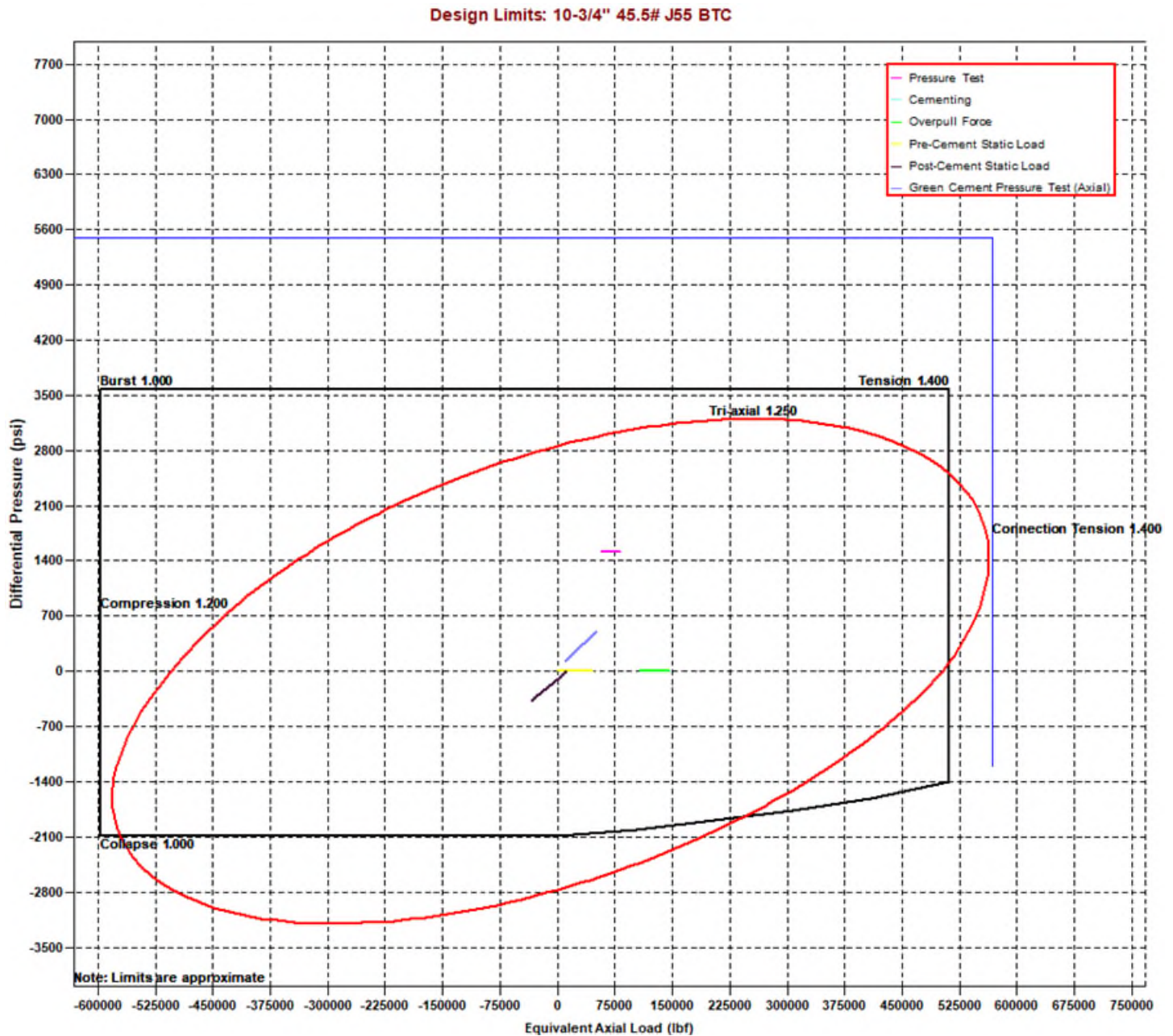




Oxy Bulk Design - Casing Design "A"

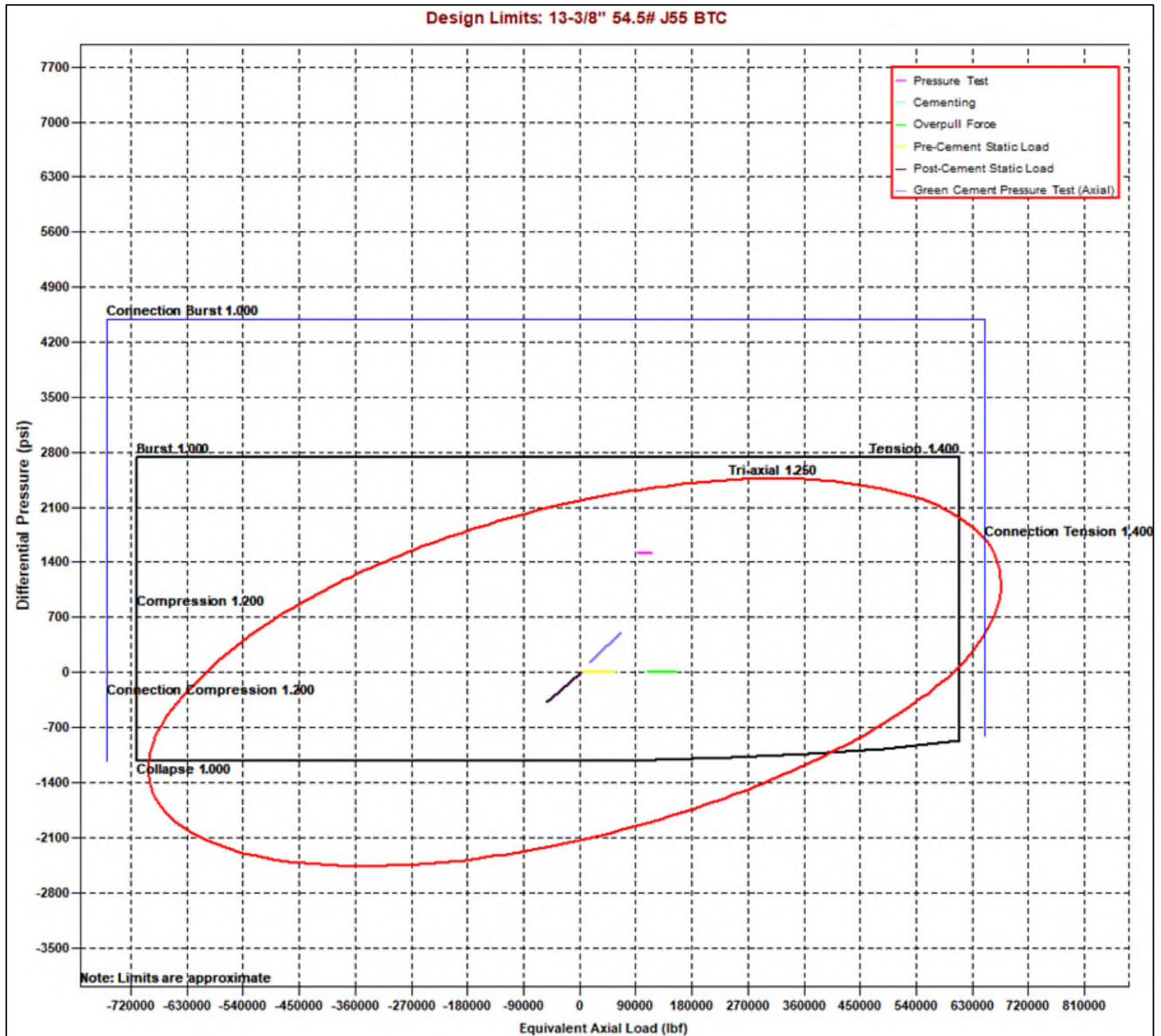


7. Landmark StressCheck Screenshots – Triaxial Output



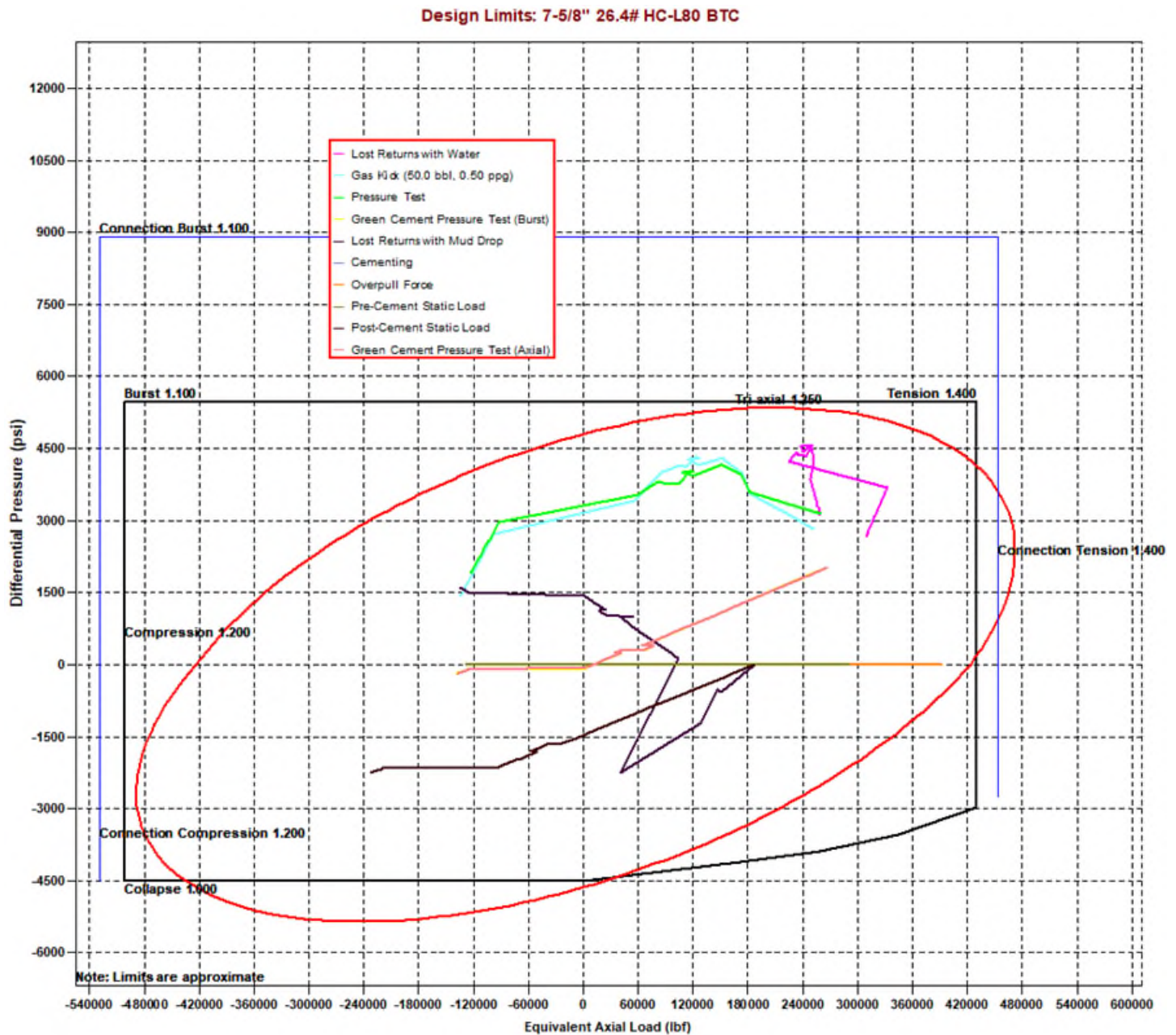


Oxy Bulk Design - Casing Design "A"





Oxy Bulk Design - Casing Design "A"

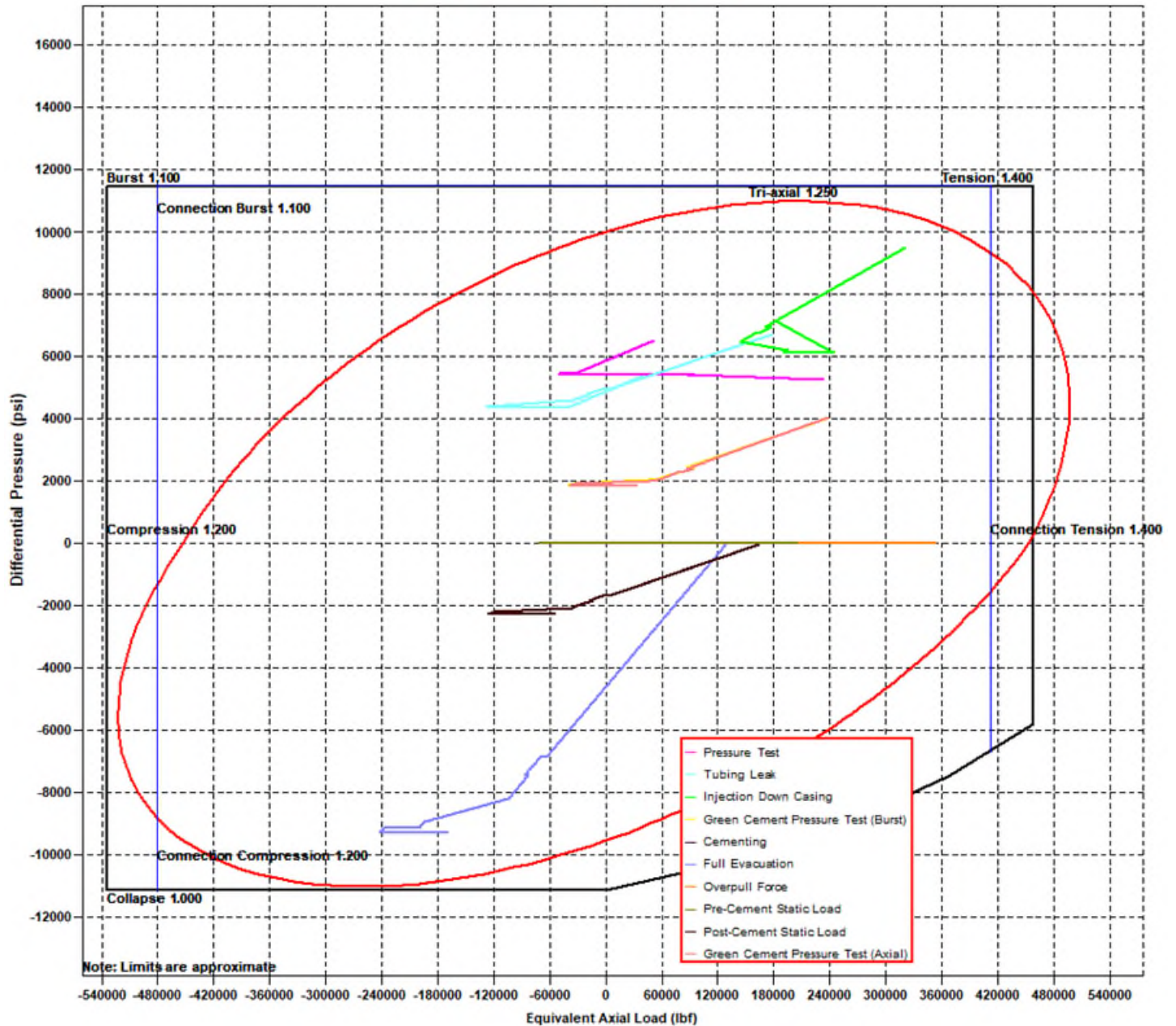




Oxy Bulk Design - Casing Design "A"



Design Limits: 5-1/2" 20# P110 Sprint SF





Oxy Bulk Design - Casing Design "A"



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

Burst Load Cases

General		7 5/8" Intermediate Casing
Burst Loads Data		
Drilling Load:	Lost Returns with Water	
Fracture at Shoe (MD= 13111.00 ft):	10591 psi	
Mud/Water Interface, MD:	0.00 ft	
Mud Weight	11.28 ppg	
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)	
Drilling Load:	Gas Kick Profile	
Influx Depth, MD:	23361.00 ft	
Kick Volume:	50.0 bbl	
Kick Intensity	0.50 ppg	
Maximum Mud Weight:	13.50 ppg	
Kick Gas Gravity:	0.55 (0.1159 psi/ft @ 182 °F & 9291 psi)	
Fracture at Shoe (MD= 13111.00 ft):	10591 psi	
Drill Pipe OD:	5.000 in	
Collar OD:	5.500 in	
Collar Length:	200.00 ft	
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)	
Drilling Load:	Pressure Test	
Test Pressure:	3120 psi	
Mud Weight:	10.00 ppg	
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)	
Drilling Load:	Green Cement Pressure Test	
Test Pressure:	2000 psi	
Mud Weight at Shoe:	10.00 ppg	
TOC, MD:	25.00 ft	
Lead Slurry Density:	13.30 ppg	
Tail Slurry Density:	13.30 ppg	
Tail Slurry Length:	5906.00 ft	
Displacement Fluid Density:	10.00 ppg	
Float Collar Depth, MD:	12800.00 ft	
External Pressure:	Fluid Gradients (w/ Pore Pressure)	
TOC, MD:	25.00 ft	
Prior Shoe, MD:	1200.00 ft	
Mud Weight Above TOC:	10.00 ppg	
Fluid Gradient Below TOC:	8.33 ppg	
Wellhead Pressure:	13 psi	
Pore Pressure In Open Hole:	Yes	



Oxy Bulk Design - Casing Design "A"



Collapse Load Cases

General		7 5/8" Intermediate Casing
Collapse Loads Data		
Drilling Load:		Cementing
Mud Weight at Shoe:		10.00 ppg
TOC, MD:		25.00 ft
Lead Slurry Density:		13.30 ppg
Tail Slurry Density:		13.30 ppg
Tail Slurry Length:		5906.00 ft
Displacement Fluid Density:		10.00 ppg
Float Collar Depth, MD:		12800.00 ft
Assigned External Pressure:		Fluid Gradients (w/ Pore Pressure)
Drilling Load:		Lost Returns with Mud Drop
Lost Returns Depth, MD:		13110.89 ft
Pore Pressure at Lost Returns Depth:		8183 psi
Pore Pressure Gradient at Lost Returns Depth:		12.33 ppg
Mud Weight:		13.50 ppg
Mud Drop Level, MD:		1106.39 ft
Assigned External Pressure:		Fluid Gradients (w/ Pore Pressure)
External Pressure:		Fluid Gradients (w/ Pore Pressure)
TOC, MD:		25.00 ft
Prior Shoe, MD:		1200.00 ft
Fluid Gradient Above TOC:		10.00 ppg
Fluid Gradient Below TOC:		10.00 ppg
Wellhead Pressure:		13 psi
Pore Pressure In Open Hole Below TOC:		No

Axial Load Cases

General		7 5/8" Intermediate Casing
Axial Loads Data		
Overpull Force:		100000 lbf
Pre-Cement Static Load:		Yes
Pickup Force:		0 lbf
Post-Cement Static Load:		Yes
Green Cement Pressure Test:		2000 psi
Service Loads:		Yes



Oxy Bulk Design - Casing Design "A"



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

StressCheck - [Triaxial Results - Blanket Design A1 *]

File Edit Wellbore Tubular View Composer Tools Window Help

7 5/8" Intermediate Casing

Pressure Test

	Depth (MD) (ft)	Axial Force (lbf)		Equivalent Axial Load (lbf)	Bending Stress at OD (psi)	Absolute Safety Factor				Temperature ("F)	Pressure (psi)		Add'l Pickup To Prevent Buck. (lbf)	Buckled Length (ft)
		Apparent (w/Bending)	Actual (w/o Bending)			Triaxial	Burst	Collapse (V)	Axial		Internal	External		
28	12300	-142410	-17423	-94936	16622.5	1.79	2.10	N/A	(4.09)	178	9505	6732		
29	12400	-149639	-24652	-100590	16622.5	1.87	2.25	N/A	(3.89)	179	9555	6970		
30	12400	-149640	-24653	-100591	16622.5	1.87	2.25	N/A	(3.89)	179	9555	6970		
31	12500	-156448	-31461	-105919	16622.5	1.95	2.42	N/A	(3.72)	180	9603	7193		
32	12500	-156449	-31462	-105920	16622.5	1.95	2.42	N/A	(3.72)	180	9603	7193		
33	12550	-159630	-34643	-108410	16622.5	1.99	2.50	N/A	(3.64)	180	9625	7298		
34	12550	-159631	-34644	-108411	16622.5	1.99	2.50	N/A	(3.64)	180	9625	7298		
35	12600	-162630	-37643	-110759	16622.5	2.03	2.59	N/A	(3.58)	180	9646	7396		
36	12600	-162631	-37644	-110760	16622.5	2.03	2.59	N/A	(3.58)	180	9646	7396		
37	12650	-165426	-40439	-112949	16622.5	2.07	2.67	N/A	(3.52)	181	9665	7488		
38	12650	-165427	-40440	-112950	16622.5	2.07	2.67	N/A	(3.52)	181	9665	7488		
39	12700	-167997	-43010	-114963	16622.5	2.10	2.76	N/A	(3.46)	181	9683	7573		
40	12700	-167998	-43011	-114963	16622.5	2.10	2.76	N/A	(3.46)	181	9683	7573		
41	12750	-170322	-45335	-116784	16622.5	2.13	2.84	N/A	(3.41)	181	9699	7649		
42	12750	-170323	-45336	-116785	16622.5	2.13	2.84	N/A	(3.41)	181	9699	7649		
43	12800	-172385	-47398	-118401	16622.5	2.16	2.91	N/A	(3.37)	181	9714	7717		
44	12800	-172386	-47399	-118401	16622.5	2.16	2.91	N/A	(3.37)	181	9714	7717		
45	12850	-174169	-49183	-119799	16622.5	2.19	2.98	N/A	(3.34)	182	9726	7775		
46	12850	-174170	-49183	-119800	16622.5	2.19	2.98	N/A	(3.34)	182	9726	7775		
47	12900	-175662	-50675	-120969	16622.5	2.21	3.04	N/A	(3.31)	182	9736	7824		
48	12950	-176851	-51864	-121901	16622.5	2.23	3.09	N/A	(3.29)	182	9745	7863		
49	13000	-177727	-52740	-122588	16622.5	2.24	3.13	N/A	(3.27)	182	9751	7892		
50	13000	-177728	-52741	-122588	16622.5	2.24	3.13	N/A	(3.27)	182	9751	7892		
51	13050	-178285	-53298	-123025	16622.5	2.25	3.15	N/A	(3.26)	182	9755	7910		
52	13111	-178527	-53540	-123214	16622.5	2.25	3.16	N/A	(3.26)	182	9756	7918		
53														
54														
55														
56														

() Compression
(V) Vector Collapse Safety Factor

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.



Oxy Bulk Design - Casing Design "A"



10. Intermediate Non-API Casing Spec Sheet



Technical Data Sheet

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

Mechanical Properties

Minimum Yield Strength	psi.	80,000
Maximum Yield Strength	psi.	95,000
Minimum Tensile Strength	psi.	95,000

Dimensions

		Pipe	AXIS HT
Outside Diameter	in.	7.625	8.500
Wall Thickness	in.	0.328	-
Inside Diameter	in.	6.969	-
Standard Drift	in.	6.844	6.844
Alternate Drift	in.	-	-
Plain End Weight	lbs/ft.	-	-
Nominal Linear Weight	lbs/ft.	26.40	-

Performance

		Pipe	AXIS HT
Minimum Collapse Pressure	psi.	4,320	-
Minimum Internal Yield Pressure	psi.	6,020	6,020
Minimum Pipe Body Yield Strength	lbs.	602 x 1,000	-
Joint Strength	lbs.	-	635 x 1,000

Make-Up Torques

		Pipe	AXIS HT
Optimum Make-Up Torque	ft/lbs.	-	8,000
Maximum Operational Torque	ft/lbs.	-	25,000

Disclaimer: The content of this Technical Data Sheet is for general information only and does not guarantee performance and/or accuracy, which can only be determined by a professional expert with the specific installation and operation parameters. Information printed or downloaded may not be current and no longer in control by Axis Pipe and Tube. Anyone using the information herein does so at his or her own risk. To verify that you have the latest technical information, please contact Axis Pipe and Tube Technical Sales +1 (979) 599-7600. www.axispipeandtube.com



Oxy Bulk Design - Casing Design "A"



11. Production Non-API Casing Spec Sheets

Printed on: 11/09/2021

TenarisHydril Wedge 461[®] MS



Coupling	Pipe Body
Grade: P1104CY	Grade: P110-4CY
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	P110-4CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	MS				

Pipe Body Data

Geometry		Performance	
Nominal OD	5.500 in.	Body Yield Strength	729 x1000 lb
Nominal Weight	20 lb/ft	Min. Internal Yield Pressure	14,360 psi
Drift	4.653 in.	SMYS	125,000 psi
Nominal ID	4.778 in.	Collapse Pressure	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.050 in.	Tension Efficiency	100 %	Minimum	17,000 ft-lb
Coupling Length	7.714 in.	Joint Yield Strength	729 x1000 lb	Optimum	18,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	14,360 psi	Maximum	21,600 ft-lb
Make-up Loss	3.775 in.	Compression Efficiency	100 %	Operation Limit Torques	
Threads per inch	3.40	Compression Strength	729 x1000 lb	Operating Torque	43,000 ft-lb
Connection OD Option	Ms	Max. Allowable Bending	104 °/100 ft	Yield Torque	51,000 ft-lb
		External Pressure Capacity	12,300 psi	Buck-On	
		Coupling Face Load	273,000 lb	Minimum	21,600 ft-lb
				Maximum	23,100 ft-lb

Notes

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 latest performance data, always visit our website: www.tenaris.com

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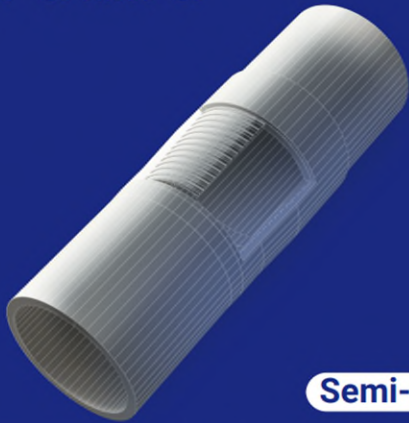
Generated on May 21, 2024



CONNECTION DATA SHEET

OD: 5.500 in. Grade: P110
Weight: 20.00 lb/ft Drift: 4.653 in. (API)
Wall Th.: 0.361 in.

VAM® SPRINT-SF



Semi-Flush

Field Torque Values

Make-up Torque (ft-lb)

20,000 MIN
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	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

Connection Type	Semi-Premium 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	11,100	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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AND ENSURE 100% WELL INTEGRITY WITH
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Oxy Bulk Design - Casing Design "A"



DWC/C-HT-IS

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 PROPERTIES

Connection Type	Semi-Premium 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

CONNECTION PERFORMANCES

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

FIELD TORQUE VALUES

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

‡ 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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Oxy Bulk Design - Casing Design "A"



VAM USA
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Houston, TX 77042
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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 A

Pad Name: LSTTNK_T22SR31E_25_01

SHL: 445' FSL 2056' FWL, Sec 25, T22S-R31E

Oxy requests for the bellow wells to be approved for the two designs listed in the Blanket Design document (**Blanket Design A –OXY –3S Slim v7.**) 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		Intermediate		Production	
		MD	TVD	MD	TVD	MD	TVD
NOW I WON 25_24 FED COM 1H	10400096783	903	903	9388	9162	20347	9852
NOW I WON 25_24 FED COM 2H	104000096824	903	903	9165	9115	20146	9846

2. Review Criteria Table

	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? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching 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?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500’ into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd 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. Geologic Formations

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	843	843	
Salado	1120	1120	Salt
Castile	3065	3065	Salt
Delaware	4480	4477	Oil/Gas/Brine
Bell Canyon	4535	4532	Oil/Gas/Brine
Cherry Canyon	5386	5361	Oil/Gas/Brine
Brushy Canyon	6689	6600	Losses
Bone Spring	8528	8349	Oil/Gas
Bone Spring 1st	9706	9468	Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

4. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	943	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	329	1.68	13.2	5%	6,939	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1238	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	649	1.84	13.3	25%	8,888	Circulate	Class C+Ret.

Oxy USA Inc. - NOW I WON 25_24 FED COM 1H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	9852	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	20347	Deepest Expected Fresh Water (ft):	843

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	843	843	
Salado	1120	1120	Salt
Castile	3065	3065	Salt
Delaware	4480	4477	Oil/Gas/Brine
Bell Canyon	4535	4532	Oil/Gas/Brine
Cherry Canyon	5386	5361	Oil/Gas/Brine
Brushy Canyon	6689	6600	Losses
Bone Spring	8528	8349	Oil/Gas
Bone Spring 1st	9706	9468	Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

		MD		TVD					
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	17.5	0	903	0	903	13.375	54.5	J-55	BTC
Intermediate	9.875	0	9388	0	9162	7.625	26.4	L-80 HC	BTC
Production	6.75	0	20347	0	9852	5.5	20	P-110	DWC/C-HT-IS

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 Collapse	SF Burst	Body SF Tension	Joint SF 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.	
	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? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching 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?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500’ into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd 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:	TOC	Placement	Description
Surface	1	Surface - Tail	943	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	329	1.68	13.2	5%	6,939	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1238	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	649	1.84	13.3	25%	8,888	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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type		✓	Tested to:	Deepest TVD Depth (ft) per Section:
9.875" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	9162
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				
6.75" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	9852
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			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

	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.	
	Y	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

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	903	0	903	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	903	9388	903	9162	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	9388	20347	9162	9852	Water-Based or Oil-Based Mud	8.0 - 9.6	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,

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

6. Logging and Testing Procedures

Logging, Coring and Testing.		
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).	
	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	
Additional 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	4919 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	159°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

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 BLM.	
N	H2S is present
Y	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 2 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: 1558 bbls		

C-102 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 LOCATION INFORMATION

API Number 30-015-56138	Pool Code 39350	Pool Name LIVINGSTON RIDGE; BONESPRING
Property Code	Property Name OLIVE WON UNIT	Well Number 101H
OGRID No. 16696	Operator Name OXY USA INC.	Ground Level Elevation 3499'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
N	25	22S	31E		445' FSL	2056' FWL	32.35643724	-103.73338802	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
D	24	22S	31E		20' FNL	400' FWL	32.38419170	-103.73877660	EDDY

Dedicated Acres 640.00	Infill or Defining Well INFILL	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code
Order Numbers:			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
M	25	22S	31E		50' FSL	400' FWL	32.35537055	-103.73874575	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
M	25	22S	31E		100' FSL	400' FWL	32.35550799	-103.73874621	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
D	24	22S	31E		100' FNL	400' FWL	32.38397183	-103.73877639	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type: ☒ Horizontal ☐ Vertical	Ground Floor Elevation 3499'
---	---	---------------------------------

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. Melissa Guidry 02/06/25 Signature Date 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 <table><tr><td>Certificate Number 21653</td><td>Date of Survey JANUARY 31, 2025</td></tr></table>	Certificate Number 21653	Date of Survey JANUARY 31, 2025
Certificate Number 21653	Date of Survey JANUARY 31, 2025		

ACREAGE DEDICATION PLATS

OLIVE WON UNIT 101H

PAGE 2 OF 2

BHL (NAD83)
X:724871.75' / Y:504010.49'
LAT:32.38419170 / LON:-103.73877660

BHL (NAD27)
X:683689.40' / Y:503950.08'
LAT:32.38406910 / LON:-103.73828763

LTP (NAD83)
X:724872.26' / Y:503930.50'
LAT:32.38397183 / LON:-103.73877639

LTP (NAD27)
X:683689.91' / Y:503870.09'
LAT:32.38384922 / LON:-103.73828742

PPP-1 (NAD83)
X:724905.67' / Y:498755.24'
LAT:32.36974613 / LON:-103.73876132

PPP-1 (NAD27)
X:683723.17' / Y:498694.97'
LAT:32.36962345 / LON:-103.73827293

FTP (NAD83)
X:724939.11' / Y:493575.47'
LAT:32.3550799 / LON:-103.73874621

FTP (NAD27)
X:683756.45' / Y:493515.34'
LAT:32.35538524 / LON:-103.73825838

KOP (NAD83)
X:724939.53' / Y:493525.47'
LAT:32.35537055 / LON:-103.73874575

KOP (NAD27)
X:683756.87' / Y:493465.33'
LAT:32.35524779 / LON:-103.73825792

SHL (NAD83)
X:726591.79' / Y:493922.76'
LAT:32.35643724 / LON:-103.73338802

SHL (NAD27)
X:685409.14' / Y:493862.61'
LAT:32.35631446 / LON:-103.73290029

BHL
10088' NORTH OF SHL
1720' WEST OF SHL
FNL 20'
FWL 400'

LTP
10008' NORTH OF SHL
1720' WEST OF SHL
FNL 100'
FWL 400'

PPP-1
4832' NORTH OF SHL
1686' WEST OF SHL
FSL 0'
FWL 401'

FTP
347' SOUTH OF SHL
1653' WEST OF SHL
FSL 100'
FWL 400'

KOP
397' SOUTH OF SHL
1652' WEST OF SHL
FSL 50'
FWL 400'

Sec. 24
NMNM 025876

Sec. 25
NMNM 025365

SHL
FSL 445'
FWL 2056'

EDDY LEA
T22S R31E
T22S R32E

CORNER COORDINATES
NAD 83, SPCS NM EAST

A - X: 727114.76' / Y:504042.53'
B - X: 727145.91' / Y:498764.76'
C - X: 727182.06' / Y:493478.71'
D - X: 724539.94' / Y:493474.89'
E - X: 724517.84' / Y:496116.14'
F - X: 724504.95' / Y:498753.54'
G - X: 724471.63' / Y:504028.35'

CORNER COORDINATES
NAD 27, SPCS NM EAST

A - X: 685932.40' / Y:503982.11'
B - X: 685963.39' / Y:498704.49'
C - X: 685999.39' / Y:493418.57'
D - X: 683357.28' / Y:493414.76'
E - X: 683335.27' / Y:496055.94'
F - X: 683322.45' / Y:498693.27'
G - X: 683289.28' / Y:503967.93'

***FTP TO LTP LINE BEARINGS**

LINE	BEARING
L1	N 00°22'12" W ~ 10355.24'

***FTP TO LTP LEASE DISTANCES**

TRACT	DISTANCE
NMNM 025365	5179.88'
NMNM 025876	5175.36'
TOTAL	10355.24'

○ Drill Line Events ● Section Corners — Drill Line — Dimension Lines — Federal Leases — HSU ○ HSU Corners

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

Distances/areas relative to NAD 83 grid measurements. Combined Scale Factor: 0.99978405 and a Convergence Angle: 0.31759200°



JOB No. OXY_0008_NW_14581
REV 3 NDS 1/27/2025

OXY APD CHANGE SUNDRY LIST FORM

DATE SUNDRY WORKSHEET CREATED	2/6/2025
WELL NAME_NUMBER	101H
API NUMBER	pending
ESTIMATED SPUD DATE	2/17/2025

ITEM		APD BASE LINE (For Regulatory to Complete)								SUNDRY PLAN (Groups to complete the latest plan)							
Surface Planning	NAME	Date APD/BASE LINE APPROVED:								DATE Sundry Worksheet: 02/06/25							
	NSL	NOW 1 WON 25_24 FED COM 1H								OLIVE WON UNIT 101H							
	SHL	NO								NO							
	PAD	445' FSL 1996' FWL								445' FSL 2056' FWL							
	BHL	LSTTNK 22531E_25_1								LSTTNK 22531E_25_1							
	HSU SIZE, ACRES	20' FNL 660' FWL								20' FNL 400' FWL							
	POOL	320								640							
	TVD	LIVINGSTON RIDGE; BONE SPRING								LIVINGSTON RIDGE; BONE SPRING							
TARGET FORMATION		9739'								9852'							
		BONE SPRING								BONE SPRING							
Drilling	CASING PROGRAM	APD BASE LINE								SUNDRY PLAN							
		Section	Hole Size (in.)	MD	TVD	Csg OD (in)	Csg WT	Grade	Conn.	Section	Hole Size (in.)	MD	TVD	Csg OD (in)	Csg WT	Grade	Conn.
		Surface	14.75	904	904	10.75	45.5	J-55	BTC	Surface	17.5	903	903	13.375	54.5	J-55	BTC
		Int	9.875	9132	9024	7.625	26.4	L-80 HC	BTC	Int	9.875	9388	9162	7.625	26.4	L-80 HC	BTC
		Int2								Int2							
	CEMENT PROGRAM	Prod	6.75	20104	9739	5.5	20	P-110	Wedge 461	Prod	6.75	20347	9852	5.5	20	P-110	DWC/C-HT-45
		Liner								Liner							
		APD BASE LINE								SUNDRY PLAN							
		Section/Stage	Slurry	Sacks	Yield (ft³/ft)	Density (lb/gal)	Excess	TOC	Placement	Description	Section/Stage	Slurry	Sacks	Yield (ft³/ft)	Density (lb/gal)	Excess	TOC
		Surf	Surface - Tail	756	1.33	14.8	100%		Circulate	Class C + Accel	Surf	Surface - Tail	943	1.33	14.8	100%	
	VARIANCES	Int1	Intermediate 15 - Tail	299	1.68	13.2	5%	6901	Circulate	Class C+Ret, Disper	Int	Intermediate 15 - Tail	329	1.68	13.2	5%	6939
		Int2	Intermediate 25 - Tail BH	1065	1.71	13.3	25%		Bradenhead	Class C+Accel	Int	Intermediate 25 - Tail BH	1238	1.71	13.3	25%	
		Int2									Int2						
		Prod	Production - Tail	650	1.84	13.3	25%	8632	Circulate	Class C + Ret	Prod	Production - Tail	649	1.84	13.3	25%	8888
		APD BASE LINE								SUNDRY PLAN							
		BOP Break Testing Variance		X						BOP Break Testing Variance		X					
		SM Annular BOP Variance								SM Annular BOP Variance							
		Bradenhead CBL Variance		X						Bradenhead CBL Variance		X					
		Offline Cementing Variance		X						Offline Cementing Variance		X					
		Production Annular Clearance Variance		X						Production Annular Clearance Variance		X					
			Flexible Choke Line Variance							Flexible Choke Line Variance							
			(Pilot Hole, Logs etc.)							(Pilot Hole, Logs etc.)							

Sante Fe Main Office
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<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 432962

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 432962
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	2/19/2025