

Well Name: NUGGET 6_31 FEDERAL COM	Well Location: T24S / R31E / SEC 7 / NENW / 32.2379654 / -103.8201527	County or Parish/State: EDDY / NM
Well Number: 43H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM82904	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001556041	Operator: OXY USA INCORPORATED	

Notice of Intent

Sundry ID: 2869893

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 08/26/2025	Time Sundry Submitted: 12:54
Date proposed operation will begin: 11/03/2025	

Procedure Description: OXY USA Inc. respectfully requests approval to amend the subject well AAPD to change the SHL, BHL, Pool, TVD, and Drill Plan. SHL has been updated from 419' FNL & 1702' FWL NENW to 419' FNL & 1762' FWL NENW. BHL has been updated from 20' FNL & 1945' FWL NENW to 20' FNL & 1880' FEL NWNE. The pool has been updated from Purple Sage; Wolfcamp (GAS) to Cotton Draw; Bone Spring. Please see the attached well plat, revised drill plan, and updated directional for reference. There is no additional surface disturbance included in this sundry.

NOI Attachments

Procedure Description

- NUGGET6_31FEDCOM43H_APDCHGSUNDRYWORKSHEET_20250826124940.pdf
- NUGGET6_31FEDCOM43H_BOPBreakTestingVariance2025_20250826124242.pdf
- NUGGET6_31FEDCOM43H_VM_20250826124153.pdf
- NUGGET6_31FEDCOM43H_VAM_DWC_C_HT_IS_5.500in_20ppf_P110RY_20250826124128.pdf
- NUGGET6_31FEDCOM43H_New_Roads_20250826124119.pdf
- NUGGET6_31FEDCOM43H_DrillPlan_20250826124108.pdf
- Nugget6_31FedCom43H_DirectPlan_20250826124058.pdf
- NUGGET6_31FEDCOM43H_C102_20250826124039.pdf

Received by OCD: 10/15/2025 10:28:00 AM

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NUGGET6_31FEDCOM43H_Blanket_Design_A_3S_Slim_v8.0_20250826124019.pdf

Conditions of Approval

Additional

Nugget_6_31_Fed_Com_43H_COA_20251008102529.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: SARA GUTHRIE

Signed on: AUG 26, 2025 12:43 PM

Name: OXY USA INCORPORATED

Title: Regulatory Advisor

Street Address: 5 GREENWAY PLAZA SUITE 110

City: HOUSTONState: TX

Phone: (713) 497-2851

Email address: SARA_GUTHRIE@OXY.COM

Field

Representative Name: Michael Wilson

Street Address:

City:State:Zip:

Phone: (575)631-6618

Email address: michael_wilson@oxy.com

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: 10/14/2025

Signature: Chris Walls

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

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

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or 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 recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: NENW / 419 FNL / 1702 FWL / TWSP: 24S / RANGE: 31E / SECTION: 7 / LAT: 32.2379654 / LONG: -103.8201527 (TVD: 0 feet, MD: 0 feet)
PPP: SESW / 0 FSL / 1945 FWL / TWSP: 24S / RANGE: 31E / SECTION: 6 / LAT: 32.2391161 / LONG: -103.8193657 (TVD: 12163 feet, MD: 12454 feet)
PPP: SESW / 0 FSL / 1943 FWL / TWSP: 23S / RANGE: 31E / SECTION: 31 / LAT: 32.2536535 / LONG: -103.819357 (TVD: 12174 feet, MD: 17743 feet)
PPP: SESW / 100 FSL / 1945 FWL / TWSP: 24S / RANGE: 31E / SECTION: 6 / LAT: 32.239391 / LONG: -103.8193654 (TVD: 12174 feet, MD: 12555 feet)
BHL: NENW / 20 FNL / 1945 FWL / TWSP: 23S / RANGE: 31E / SECTION: 31 / LAT: 32.2681218 / LONG: -103.8193485 (TVD: 12174 feet, MD: 23008 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY
WELL NAME & NO.:	Nugget 6 31 Fed Com 43H
LOCATION:	7-24S-31E-NMP
COUNTY:	<input type="text" value="Eddy County, New Mexico"/>

*Changes approved through engineering via **Sundry 2869893** on 10/8/2025. Any previous COAs not addressed within the updated COAs still apply.*

Create COAs

H₂S	Cave / Karst	Waste Prevention Rule
<input type="text" value="Not Reported"/>	<input type="text" value="Low"/>	<input type="text" value="Waste Minimization Plan"/>
Potash	R-111-Q Design	
<input type="text" value="Secretary"/>	<input type="text" value=""/>	
Wellhead	Casing	
<input type="text" value="Multibowl"/>	<input type="text" value="3-String Well"/>	
<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Liner <input checked="" type="checkbox"/> Fluid Filled <input checked="" type="checkbox"/> Casing Clearance	
<input checked="" type="checkbox"/> Break Testing	Cementing	
	<input type="checkbox"/> DV Tool <input checked="" type="checkbox"/> Bradenhead <input type="checkbox"/> Echometer	
	<input checked="" type="checkbox"/> Offline Cement <input type="checkbox"/> Open Annulus <input type="checkbox"/> Pilot Hole	
Special Requirements		
<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM <input type="checkbox"/> Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **604** 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 **8 hours** or **500 pounds compressive strength**, whichever is greater (including lead cement.)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

2. The minimum required fill of cement behind the **7-5/8** inch Intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.

Bradenhead Squeeze: 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**. **Excess calculates to 5%. Additional cement maybe required.**
- b. **Second stage:** Operator to squeeze and top-out. Cement to meet requirements listed for this casing string. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down **Surface X Intermediate 1** annulus. Submit results to the 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. ***If cement does not reach surface, the next casing string must come to surface.***

- Operator shall run a CBL from TD of the **Surface** casing to tieback requirements listed above after the second stage BH to verify TOC.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is **500 feet** into the previous casing but not higher than **USGS Marker Bed No. 126 (base of the McNutt Potash ore zone)**.
 - Operator must verify top of cement per R-111-Q requirements. Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office.
 - a. **Second stage:** Operator to squeeze and top-out. Cement to meet requirements listed for this casing string. If cement does not circulate see B.1.a, c-d above.

C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.
2. 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).
3. Break testing has been approved for this well ONLY on those intervals utilizing a 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.)** If in the event break testing is not utilized, then a full BOPE test would be conducted.
 - a. Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation. **BOPE Break Testing is NOT permitted to drilling the production hole section.**
 - b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.
 - c. 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).
 - d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
 - e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**. 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.

D. SPECIAL REQUIREMENT(S)

Communitization Agreement:

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Offline Cementing

Offline cementing has been approved for **all hole sections**. Contact the BLM prior to the commencement of any offline cementing procedure.

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Production casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

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.

Approved by Zota Stevens on 10/8/2025
575-234-5998 / zstevens@blm.gov

OXY APD CHANGE SUNDRY LIST FORM

DATE SUNDRY WORKSHEET CREATED	8/25/2025
WELL NAME_ NUMBER	NUGGET 6_ 31 FEDERAL COM 43H
API NUMBER	30-035-56041
ESTIMATED SPUD DATE	11/1/2025

PLEASE SEE ATTACHED OXY APD CHANGE SUNDRY LIST THAT HIGHLIGHTS CHANGES AND ATTACHMENTS. GENERAL CHANGE DOCUMENTS ARE COMBINED INTO 1 PDF FILE AND WELL SPECIFIC DOCUMENTS ARE INDIVIDUAL ATTACHMENTS.

Surface Planning	ITEM	APD BASE LINE (For Regulatory to Complete)										SUNDRY PLAN (Groups to complete the latest plan)									
	NAME	Date APD/BASE LINE APPROVED: 12/20/2024										DATE Sundry Worksheet : 8/26/2025									
	NSL	NUGGET 6_ 31 FEDERAL COM 43H										NUGGET 6_ 31 FEDERAL COM 43H									
	SHL	NO										NO									
	PAD	419' FNL & 1702' FWL NENW										419' FNL & 1762' FWL NENW									
	BHL	SNDONS_24S31E_7_2										SNDONS_24S31E_7_2									
	HSU SIZE, ACRES	20' FNL & 1945' FWL NENW										20' FNL & 1880' FEL NWINE									
	POOL	1296.09										640.41									
	TVD	PURPLE SAGE; WOLFCAMP (GAS)										COTTON DRAW; BONE SPRING									
TARGET FORMATION	23,008										19,105										
	WOLFCAMP										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 (ppf)	Grade	Conn.			
		Surface	14.75	877	877	10.75	45.5	J-55	BTC		Surface	14.75	639	639	10.75	40.5	J-55	BTC			
		Int	9.875	11460	11447	7.625	26.4	L-80 HC	BTC		Int	9.875	8266	8086	7.625	26.4	L-80 HC	BTC			
		Int2									Int2										
	Prod	6.75	23008	12174	5.5	20	P-110	WEDGE 461		Prod	6.75	19106	8707	5.5	20	P-110	DWC/C-HT-15				
	Liner									Liner											
	CEMENT PROGRAM	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	Placement	Description		
		Surf	SURFACE- TAIL	734	1.33	14.8	100%	0	CIRCULATE	CLASS C + ACCEL	Surf	SURFACE- TAIL	535	1.33	14.8	100%	0	CIRCULATE	CLASS C + ACCEL		
		Int/1	INTERMEDIATE 15- TAIL	659	1.65	13.2	5%	6635	CIRCULATE	CLASS H + ACCEL., DISPER., SALT	Int	INTERMEDIATE 15- TAIL	205	1.68	13.2	5%	6738	CIRCULATE	CLASS C + RET., DISPER.		
		Int/2	INTERMEDIATE 25- TAIL BH	1024	1.71	13.3	25%	0	BRADENHEAD	CLASS C + ACCEL	Int	INTERMEDIATE 25- TAIL	1045	1.71	13.3	25%	0	BRADENHEAD	CLASS C + ACCEL		
	Int2									Int2											
	Int2									Int2											
	Prod	PRODUCTION- TAIL	682	1.84	13.3	25%	10960	CIRCULATE	CLASS C + RET.	Prod	PRODUCTION- TAIL	642	1.84	13.3	25%	7766	CIRCULATE	CLASS C + RET.			
	VARIANCES	APD BASE LINE										SUNDRY PLAN									
		BOP Break Testing Variance	Y									BOP Break Testing Variance	Y								
		SM Annular BOP Variance	Y									SM Annular BOP Variance	N								
		Bradenhead CBL Variance	Y									Bradenhead CBL Variance	Y								
Offline Cementing Variance		Y									Offline Cementing Variance	Y									
Production Annular Clearance Variance		Y									Production Annular Clearance Variance	Y									
	Flexible Choke Line Variance										Flexible Choke Line Variance										
	(Pilot Hole, Logs etc.)										(Pilot Hole, Logs etc.)										

VERSION DATE 8/30/2024

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached with OXY/BLM on April 4th, 2025.

BOPE Break Testing is ONLY permitted for 5M BOPE or less (utilizing a 10M BOPE system.)
Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.

BOP break test for the **intermediate or production** section under the following conditions:

- After a full BOP test is conducted.
- When skidding to drill an intermediate or production section which does not penetrate the deeper than the Wolf Camp formation (<5M).
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 3 CFR part 3170 Subpart 3172
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- In the event break testing is not utilized, then a full BOPE test would be conducted.
- If the kill line is broken prior to skid, two tests will be performed.
 - 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
 - 2) Wellhead flange, HCR valve, check valve, upper pipe rams
- If the kill line is not broken prior to skid, only one test will be performed.
 - 1) Wellhead flange, co-flex hose, check valve, upper pipe rams

Subject: Request for a Variance Allowing Break Testing of a Blowout Preventer Stack

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads. This practice entails retesting only the connections of the **BOP** stack that have been disconnected during this operation and not a complete **BOP** test.

Background

43 CFR part 3170 Subpart 3172 states that a **BOP** test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) is this requires a complete **BOP** test and not just a test of the affected component. 43 CFR part 3170 Subpart 3172, Section I.D.2. states, "Some situations may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this Order. This situation can be resolved by requesting a variance...". OXY feels the practice of break testing the **BOP** stack is such a situation. Therefore, as per 43 CFR part 3170 Subpart 3172, Section IV., OXY submits this request for the variance.

Supporting Rationale

43 CFR part 3170 Subpart 3172 became effective on December 19, 1988, and has remained the standard for regulating BLM onshore drilling operations for almost 30 years. During this time there have been significant changes in drilling technology. **BLM** continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR part 3170 Subpart 3172 was originally released. The drilling rig fleet OXY utilizes in New Mexico was built with many modern upgrades. One of which allows the rigs to skid between wells on multi-well pads. A part of this rig package is

a hydraulic winch system which safely installs and removes the BOP from the wellhead and carries it during skidding operations. This technology has made break testing a safe and reliable procedure.

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry. 43 CFR part 3170 Subpart 3172 recognized API Recommended Practices (RP) 53 in its original development. API Standard 53, *Blowout Prevention Equipment Systems for Drilling Wells* (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the **BOP** stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specifications and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations. BSEE issued new offshore regulations under 30 CFR Part 250, *Oil and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout Preventer Systems and Well Control*, which became effective on July 28, 2016. Section 250.737(d.1) states "Follow the testing requirements of API Standard 53". In addition, Section 250.737(d.8) has adopted language from **API** Standard 53 as it states "Pressure test affected **BOP** components following the disconnection or repair of any well-pressure containment seal in the wellhead or **BOP** stack assembly".

Break testing has been approved by the BLM in the past. See the Appendix for a Sundry Notice that was approved in 2015 by the Farmington Field Office. This approval granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads.

Oxy feels break testing and our current procedures meet the intent of 43 CFR part 3170 Subpart 3172 and often exceed it. We have not seen any evidence that break testing results in more components failing tests than seen on full BOP tests. As skidding operations take place within the 30-day full BOPE test window, the BOP shell and components such as the pipe rams and check valve get tested to the full rated working pressure more often. Therefore, there are more opportunities to ensure components are in good working order. Also, Oxy's standard requires complete BOP tests more often than that of 43 CFR part 3170 Subpart 3172. In addition to function testing the annular at least weekly and the pipe and blind rams on each trip, Oxy also performs a choke drill prior to drilling out every casing shoe. As a crew's training is a vital part of well control, this procedure to simulate step one of the Driller's Method exceeds the requirements of 43 CFR part 3170 Subpart 3172.

Procedures

- 1) OXY would perform BOP break testing on multi-well pads where multiple intermediate or production sections can be drilled and cased within the 21-day BOP test window
- 2) After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP.
 - Between the check valve and the kill line
 - Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - Between the BOP flange and the wellhead
- 3) The BOP is then lifted and removed from the wellhead by the hydraulic winch system
- 4) After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
- 5) The choke line and kill line are reconnected
- 6) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed
- 7) A shell test is performed against the upper pipe rams testing all three breaks
- 8) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 9) These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- 10) Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 11) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 12) A second break test would only be done if the third hole section could be completed within the 21-day BOP test window
- 13) If a second break test is performed, additional components that were not tested on the initial break test will be tested on this break test

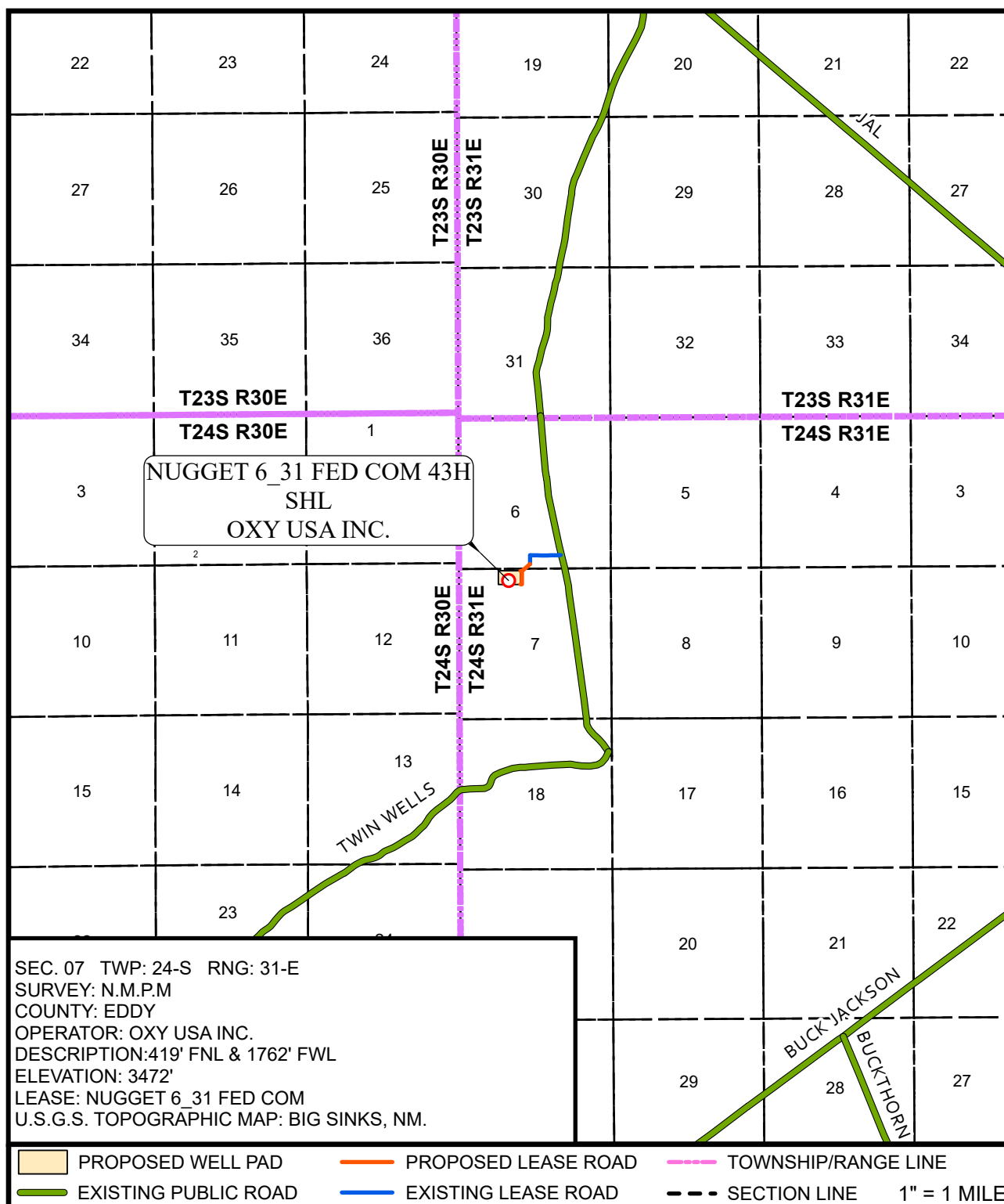
Notes:

- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 9.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step 8 above, no further testing of the manifold is done until the next full BOP test.

Summary

OXY requests a variance to allow break testing of the BOP stack when skidding drilling rigs between wells on multi-well pads. API standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry and the BLM. API Standard 53 recognizes break testing as an acceptable practice and BSEE adopted language from this standard into its newly created 30 CFR Part 250 which also supports break testing. Due to this, OXY feels this request meets the intent of 43 CFR part 3170

VICINITY MAP



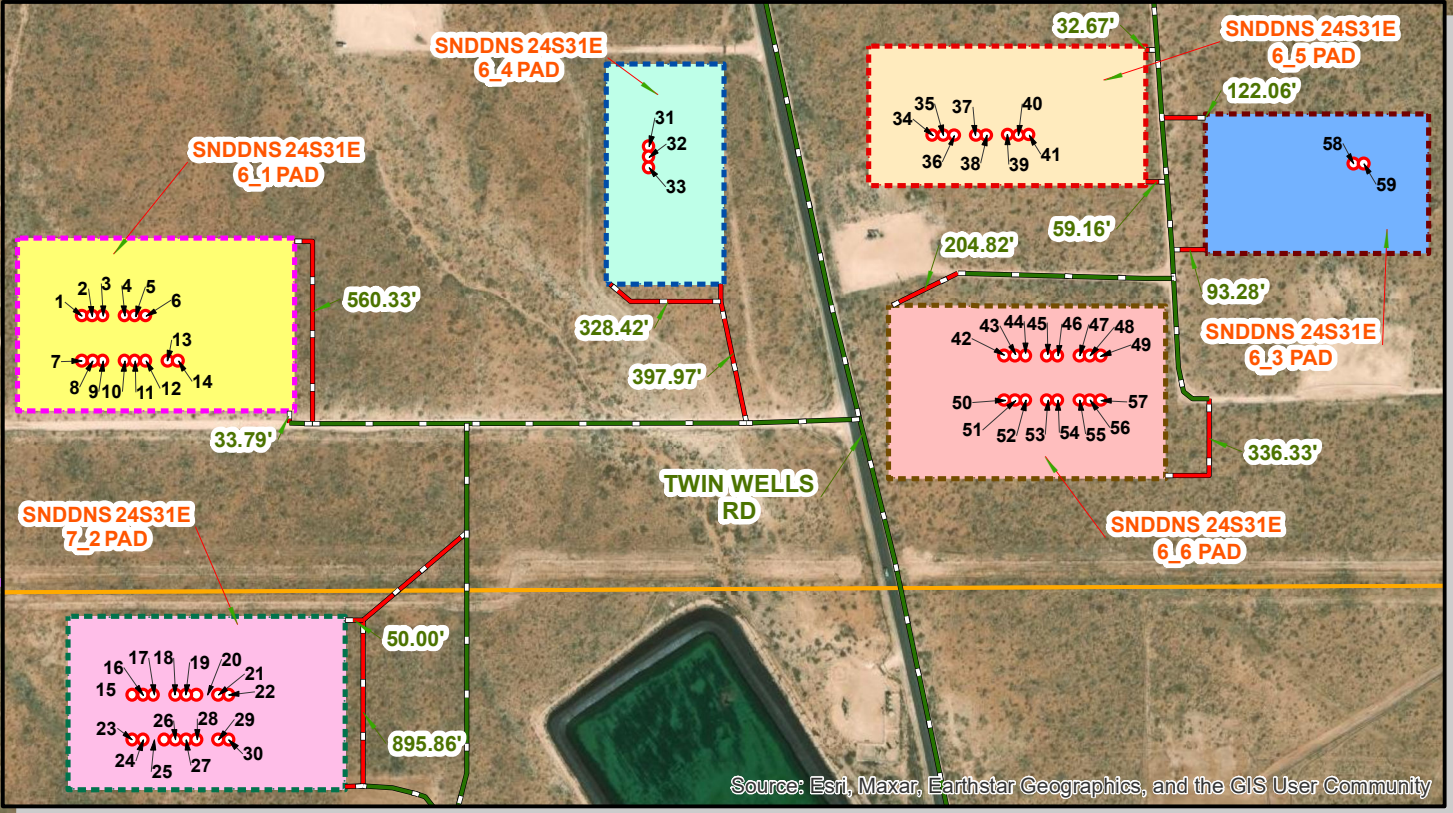
APPROX. 16.6 MILES SOUTHEASTERLY OF LOVING, NM.

FROM THE INTERSECTION OF U.S. HWY 285 AND STATE HWY 387 / W. CEDAR STREET IN LOVING, NEW MEXICO, HEAD NORTH ON U.S. HWY 285 FOR APPROX. 2.3 MILES TO STATE HWY 31 / POTASH MINES ROAD. HEAD EAST ON STATE HWY 31 / POTASH MINES ROAD FOR APPROX. 7.7 MILES TO STATE HWY 128 / JAL HWY. HEAD EAST ON STATE HWY 128 / JAL HWY FOR APPROX. 12.8 MILES TO TWIN WELLS ROAD ON SOUTH SIDE OF HWY. HEAD SOUTH ON TWIN WELLS ROAD FOR APPROX. 4.2 MILES TO AN EXISTING LEASE ROAD ON THE WEST SIDE OF ROAD. HEAD WEST ON SAID LEASE ROAD FOR APPROX. 0.2 MILES TO A PREVIOUSLY STAKED ACCESS ROAD ON SOUTH SIDE OF ROAD. HEAD SOUTH ON PREVIOUSLY STAKED LEASE ROAD FOR APPROX. 300' TO THE ENTRANCE OF THE NORTHEAST PAD CORNER.



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON STREET,
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY 0029 JS01 15716

INDEX	WELL NAME	ELEVATION	FNL/FSL	FEL/FWL
1	JEFF SMITH MDP1 7_18 FED COM 43H	3447'	768' FSL	1445' FWL
2	JEFF SMITH MDP1 7_18 FED COM 48H	3447'	768' FSL	1475' FWL
3	JEFF SMITH MDP1 7_18 FED COM 44H	3448'	768' FSL	1505' FWL
4	JEFF SMITH MDP1 7_18 FED COM 21H	3449'	768' FSL	1565' FWL
5	JEFF SMITH MDP1 7_18 FED COM 22H	3449'	767' FSL	1595' FWL
6	JEFF SMITH MDP1 7_18 FED COM 23H	3450'	767' FSL	1625' FWL
7	NUGGET 6_31 FED COM 41H	3448'	643' FSL	1445' FWL
8	NUGGET 6_31 FED COM 47H	3449'	643' FSL	1475' FWL
9	NUGGET 6_31 FED COM 42H	3450'	643' FSL	1505' FWL
10	NUGGET 6_31 FED COM 31H	3451'	643' FSL	1565' FWL
11	NUGGET 6_31 FED COM 32H	3452'	642' FSL	1595' FWL
12	NUGGET 6_31 FED COM 33H	3451'	642' FSL	1625' FWL
13	NUGGET 6_31 FED COM 4H	3452'	642' FSL	1685' FWL
14	NUGGET 6_31 FED COM 5H	3452'	642' FSL	1714' FWL
15	JEFF SMITH MDP1 7_18 FED COM 31H	3467'	293' FNL	1582' FWL
16	JEFF SMITH MDP1 7_18 FED COM 32H	3467'	293' FNL	1612' FWL
17	JEFF SMITH MDP1 7_18 FED COM 33H	3468'	293' FNL	1642' FWL
18	JEFF SMITH MDP1 7_18 FED COM 41H	3469'	294' FNL	1702' FWL
19	JEFF SMITH MDP1 7_18 FED COM 47H	3469'	294' FNL	1732' FWL
20	JEFF SMITH MDP1 7_18 FED COM 42H	3469'	294' FNL	1762' FWL
21	JEFF SMITH MDP1 7_18 FED COM 11H	3470'	294' FNL	1822' FWL
22	JEFF SMITH MDP1 7_18 FED COM 12H	3470'	294' FNL	1852' FWL
23	NUGGET 6_31 FED COM 11H	3467'	418' FNL	1582' FWL
24	NUGGET 6_31 FED COM 12H	3468'	418' FNL	1612' FWL
25	NUGGET 6_31 FED COM 21H	3470'	418' FNL	1672' FWL
26	NUGGET 6_31 FED COM 22H	3471'	419' FNL	1702' FWL
27	NUGGET 6_31 FED COM 23H	3472'	419' FNL	1732' FWL
28	NUGGET 6_31 FED COM 43H	3472'	419' FNL	1762' FWL
29	NUGGET 6_31 FED COM 48H	3473'	419' FNL	1822' FWL
30	NUGGET 6_31 FED COM 44H	3472'	419' FNL	1852' FWL
31	JEFF SMITH MDP1 7_18 FED COM 1H	3452'	1237' FSL	2307' FEL
32	JEFF SMITH MDP1 7_18 FED COM 2H	3453'	1207' FSL	2307' FEL
33	JEFF SMITH MDP1 7_18 FED COM 3H	3452'	1177' FSL	2307' FEL
34	NUGGET 6_31 FED COM 24H	3458'	1264' FSL	1513' FEL
35	NUGGET 6_31 FED COM 25H	3458'	1264' FSL	1482' FEL
36	NUGGET 6_31 FED COM 26H	3457'	1263' FSL	1453' FEL
37	JEFF SMITH MDP1 7_18 FED COM 49H	3457'	1263' FSL	1393' FEL
38	JEFF SMITH MDP1 7_18 FED COM 45H	3457'	1263' FSL	1362' FEL
39	NUGGET 6_31 FED COM 6H	3458'	1263' FSL	1302' FEL
40	NUGGET 6_31 FED COM 46H	3458'	1263' FSL	1272' FEL
41	NUGGET 6_31 FED COM 50H	3457'	1263' FSL	1242' FEL
42	JEFF SMITH MDP1 7_18 FED COM 24H	3464'	646' FSL	1314' FEL
43	JEFF SMITH MDP1 7_18 FED COM 25H	3464'	646' FSL	1284' FEL
44	JEFF SMITH MDP1 7_18 FED COM 26H	3464'	646' FSL	1254' FEL
45	JEFF SMITH MDP1 7_18 FED COM 13H	3465'	645' FSL	1194' FEL
46	JEFF SMITH MDP1 7_18 FED COM 14H	3465'	645' FSL	1164' FEL
47	JEFF SMITH MDP1 7_18 FED COM 34H	3466'	645' FSL	1104' FEL
48	JEFF SMITH MDP1 7_18 FED COM 35H	3466'	645' FSL	1074' FEL
49	JEFF SMITH MDP1 7_18 FED COM 36H	3466'	645' FSL	1044' FEL
50	NUGGET 6_31 FED COM 34H	3467'	521' FSL	1314' FEL
51	NUGGET 6_31 FED COM 35H	3466'	521' FSL	1284' FEL
52	NUGGET 6_31 FED COM 36H	3466'	521' FSL	1254' FEL
53	NUGGET 6_31 FED COM 49H	3468'	520' FSL	1194' FEL
54	NUGGET 6_31 FED COM 45H	3468'	520' FSL	1164' FEL
55	NUGGET 6_31 FED COM 13H	3470'	520' FSL	1104' FEL
56	NUGGET 6_31 FED COM 14H	3470'	520' FSL	1074' FEL
57	NUGGET 6_31 FED COM 7H	3470'	520' FSL	1044' FEL
58	JEFF SMITH MDP1 7_18 FED COM 46H	3455'	1178' FSL	335' FEL
59	JEFF SMITH MDP1 7_18 FED COM 50H	3455'	1178' FSL	305' FEL



T23S R30E
T23S R31E

TWIN WELLS
RD

T24S R30E
T24S R31E

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



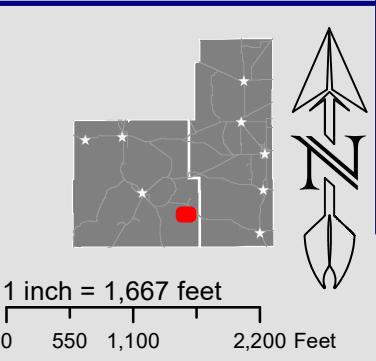
- WELLS
- Proposed_Road
- Existing_Road
- FACILITY
- SNDDNS_T24SR31E_6_1-PAD
- SNDDNS_T24SR31E_6_3-PAD
- SNDDNS_T24SR31E_6_4-PAD
- SNDDNS_T24SR31E_6_5-PAD
- SNDDNS_T24SR31E_6_6-PAD
- SNDDNS_T24SR31E_7_2-PAD
- Township-Range
- SECTIONS

JEFF SMITH 7-18/NUGGET 6-31

OVERALL IMAGERY MAP Draft Date: 8/6/2025 Rev: 4

Section: 6, 7 TWN-RNG: T24S - R31E County: EDDY

TOTAL 30' WIDE PROPOSED LEASE ROAD EASEMENT:
3,114.69 FEET (188.77 RODS)





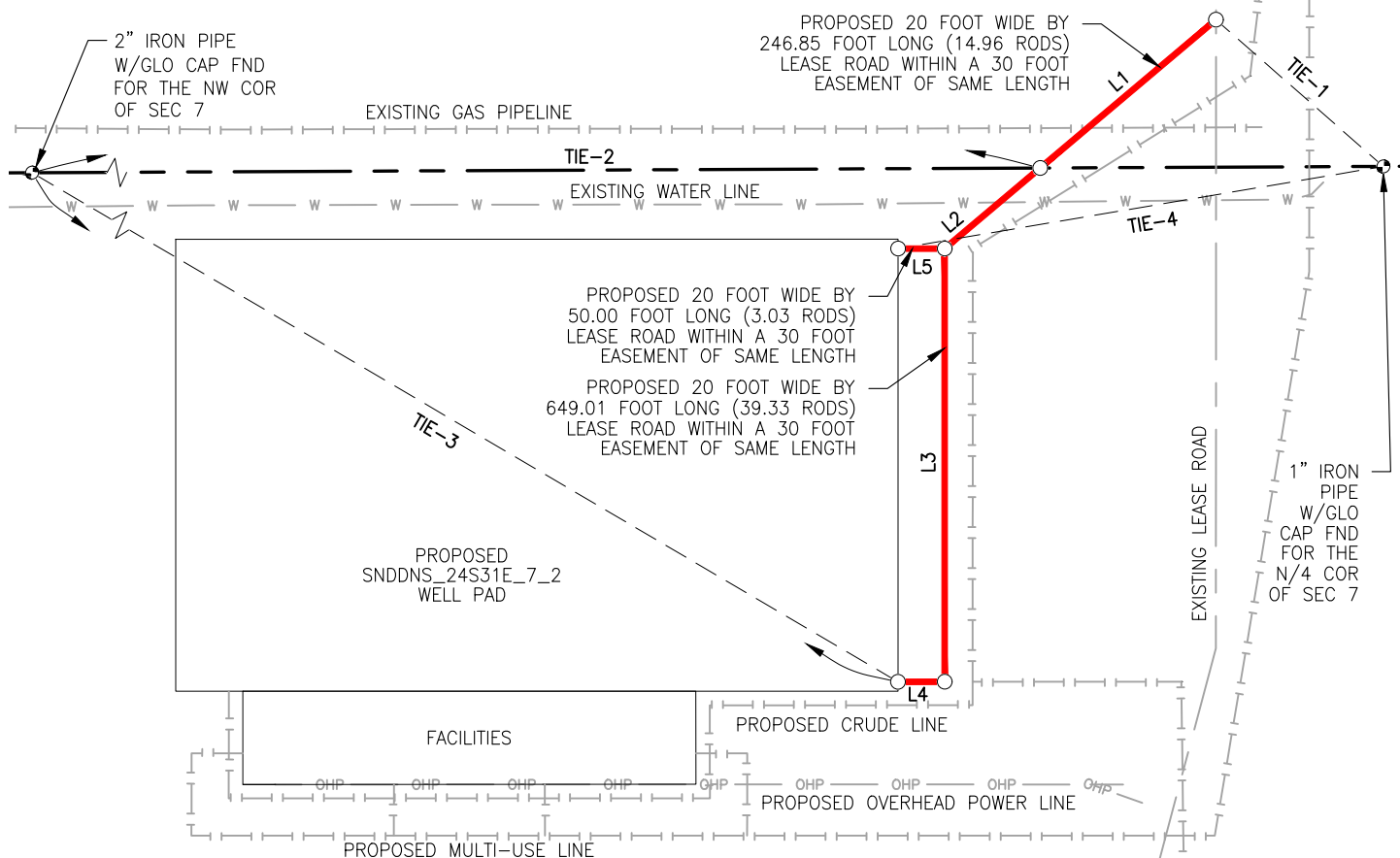
SITE PLAN

SNDDNS_24S31E_7_2
SEC. 7 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO



100' 0' 100' 200'
SCALE: 1" = 200'

SECTION 6, T-24-S, R-31-E



SECTION 7, T-24-S, R-31-E

TIE TABLE		
TIE	BEARING	DISTANCE
TIE-1	S 48°44'58" E	238.84'
TIE-2	S 89°43'58" W	2,331.08'
TIE-3	N 76°03'50" E	2,244.56'
TIE-4	N 80°23'42" W	528.10'

CENTERLINE PROPOSED LEASE ROAD		
LINE	BEARING	DISTANCE
L1	S 49°50'26" W	246.85'
L2	S 49°50'26" W	134.02'
L3	S 00°00'35" W	464.93'
L4	S 89°53'57" W	50.06'
L5	N 89°57'36" W	50.00'

07/20/2023 08/07/2023
DATE SURVEYED DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

2 08/05/2025 JMW
REV. DATE BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)

LEGEND			
	EXISTING ROAD		OHP OVERHEAD POWER
	PROPOSED ROAD		FENCE
	SURFACE SITE EDGE		SECTION LINE
	EXIST. PIPELINE		PROPERTY LINE
	MONUMENT		WATER LINE
	QUARTER SPLIT		SALT WATER LINE

AUG 07, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS01
SHEET 1 OF 3



SITE PLAN

SNDDNS_24S31E_7_2
SEC. 7 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO

TANK BATTERY
RECLAMATION
30' TOP SOIL
20' DISTURBANCE AREA

100' 0' 100' 200'
SCALE: 1" = 200'

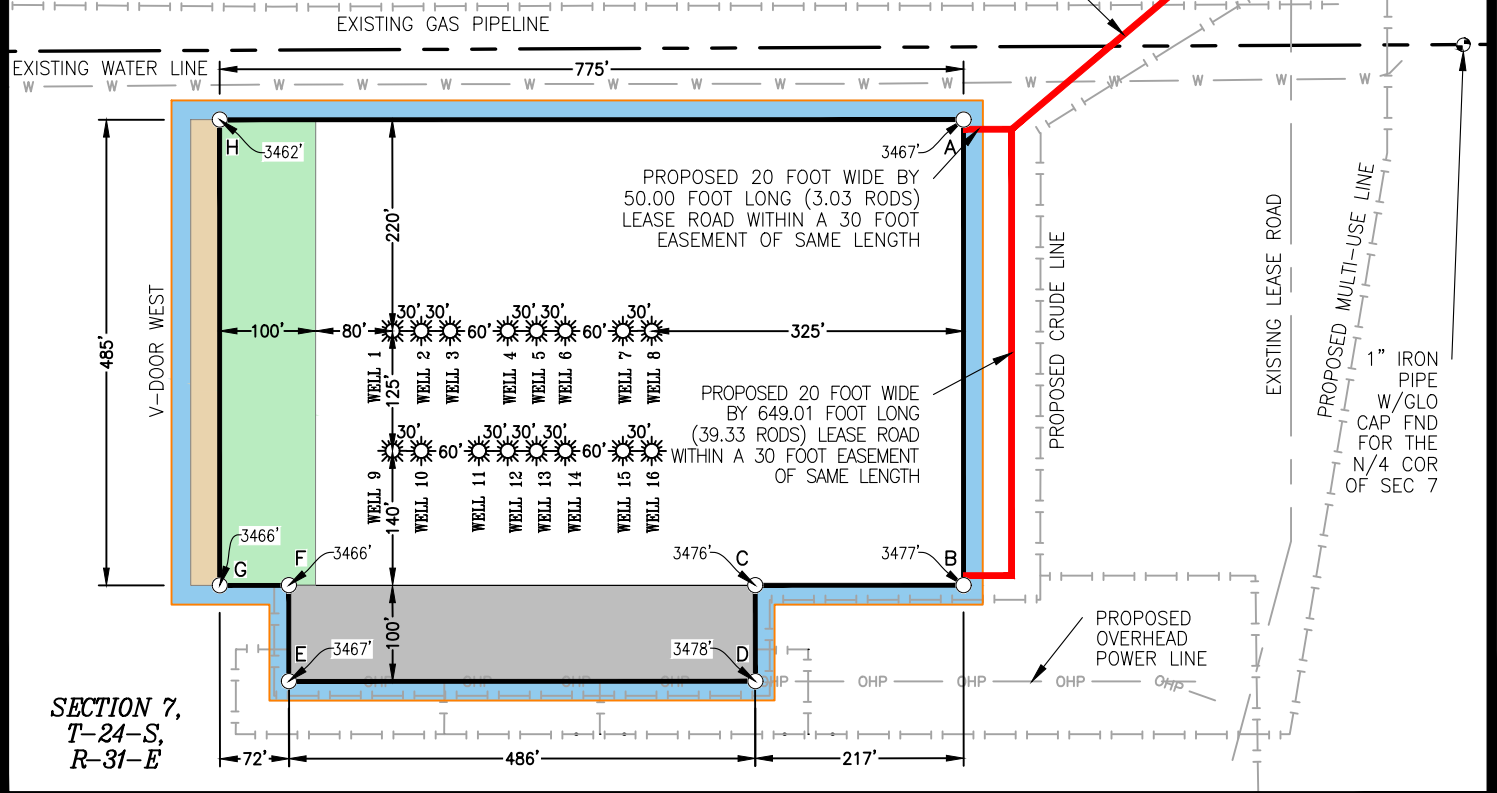


NAD 83		
A	E:(X)700480.97 N:(Y)451029.61	LAT:32.23890798 LON:-103.81861140
B	E:(X)700480.88 N:(Y)450544.57	LAT:32.23757472 LON:-103.81861923
C	E:(X)700263.94 N:(Y)450544.55	LAT:32.23757751 LON:-103.81932083
D	E:(X)700264.01 N:(Y)450444.69	LAT:32.23730304 LON:-103.81932217
E	E:(X)699777.97 N:(Y)450444.48	LAT:32.23730882 LON:-103.82089410
F	E:(X)699777.94 N:(Y)450544.49	LAT:32.23758375 LON:-103.82089265
G	E:(X)699705.93 N:(Y)450544.48	LAT:32.23758467 LON:-103.82112555
H	E:(X)699706.00 N:(Y)451029.51	LAT:32.23891790 LON:-103.82111782

SECTION 6,
T-24-S,
R-31-E

PROPOSED 20 FOOT WIDE BY
246.85 FOOT LONG (14.96 RODS)
LEASE ROAD WITHIN A 30 FOOT
EASEMENT OF SAME LENGTH

NAD 27		
A	E:(X)659297.09 N:(Y)450970.57	LAT:32.23878486 LON:-103.81812631
B	E:(X)659296.98 N:(Y)450485.54	LAT:32.23745157 LON:-103.81813418
C	E:(X)659080.04 N:(Y)450485.52	LAT:32.23745437 LON:-103.81883578
D	E:(X)659080.11 N:(Y)450385.67	LAT:32.23717988 LON:-103.81883711
E	E:(X)658594.07 N:(Y)450385.46	LAT:32.23718569 LON:-103.82040901
F	E:(X)658594.05 N:(Y)450485.46	LAT:32.23746060 LON:-103.82040755
G	E:(X)658522.04 N:(Y)450485.45	LAT:32.23746152 LON:-103.82064043
H	E:(X)658522.12 N:(Y)450970.47	LAT:32.23879477 LON:-103.82063267



SECTION 7,
T-24-S,
R-31-E

07/20/2023	08/07/2023
DATE SURVEYED	DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

2	08/05/2025	JMW
REV.	DATE	BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)

LEGEND			
—	EXISTING ROAD	— x —	OHP — OVERHEAD POWER
—	PROPOSED ROAD	— x —	FENCE
—	SURFACE SITE EDGE	—	SECTION LINE
—	EXIST. PIPELINE	—	PROPERTY LINE
—		— W —	WATER LINE
—		— SWD —	SALT WATER LINE
●	MONUMENT		
●	QUARTER SPLIT		

AUG 07, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS01
SHEET 2 OF 3



SITE PLAN

SNDDNS_24S31E_7_2

SEC. 7 TWP. 24-S RGE. 31-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.

FAA PERMIT NEEDED: NO



WELL 1
JEFF SMITH MDP1 7_18 FED COM 31H
OXY USA, INC.
293' FNL 1,582' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:699886.04' / Y:450809.50'
LAT:32.23831078N / LON:103.82053893W
NAD 27, SPCS NM EAST
X:658702.15' / Y:450750.47'
LAT:32.23818764N / LON:103.82005382W
ELEVATION = 3467'

WELL 2
JEFF SMITH MDP1 7_18 FED COM 32H
OXY USA, INC.
293' FNL 1,612' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:699915.98' / Y:450809.51'
LAT:32.23831042N / LON:103.82044210W
NAD 27, SPCS NM EAST
X:658732.09' / Y:450750.48'
LAT:32.23818728N / LON:103.81995699W
ELEVATION = 3467'

WELL 3
JEFF SMITH MDP1 7_18 FED COM 33H
OXY USA, INC.
293' FNL 1,642' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:699946.00' / Y:450809.50'
LAT:32.23830999N / LON:103.82034501W
NAD 27, SPCS NM EAST
X:658762.11' / Y:450750.47'
LAT:32.23818685N / LON:103.81985990W
ELEVATION = 3468'

WELL 4
JEFF SMITH MDP1 7_18 FED COM 41H
OXY USA, INC.
294' FNL 1,702' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:700005.96' / Y:450809.54'
LAT:32.23830932N / LON:103.82015109W
NAD 27, SPCS NM EAST
X:658822.07' / Y:450750.51'
LAT:32.23818618N / LON:103.81966598W
ELEVATION = 3469'

WELL 5
JEFF SMITH MDP1 7_18 FED COM 47H
OXY USA, INC.
294' FNL 1,732' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:700035.95' / Y:450809.48'
LAT:32.23830876N / LON:103.8205410W
NAD 27, SPCS NM EAST
X:658852.06' / Y:450750.45'
LAT:32.23818562N / LON:103.81956899W
ELEVATION = 3469'

WELL 6
JEFF SMITH MDP1 7_18 FED COM 42H
OXY USA, INC.
294' FNL 1,762' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:700066.08' / Y:450809.50'
LAT:32.23796682N / LON:103.81995665W
NAD 27, SPCS NM EAST
X:658882.20' / Y:450750.47'
LAT:32.23818528N / LON:103.81947154W
ELEVATION = 3469'

WELL 7
JEFF SMITH MDP1 7_18 FED COM 11H
OXY USA, INC.
294' FNL 1,822' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:700126.10' / Y:450809.43'
LAT:32.23830744N / LON:103.81976254W
NAD 27, SPCS NM EAST
X:658942.21' / Y:450750.40'
LAT:32.23818429N / LON:103.81927744W
ELEVATION = 3470'

WELL 8
JEFF SMITH MDP1 7_18 FED COM 12H
OXY USA, INC.
294' FNL 1,852' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:700156.01' / Y:450809.58'
LAT:32.23830746N / LON:103.81966580W
NAD 27, SPCS NM EAST
X:658972.12' / Y:450750.55'
LAT:32.23818431N / LON:103.81918070W
ELEVATION = 3470'

WELL 9
NUGGET 6_31 FED COM 11H
OXY USA, INC.
418' FNL 1,732' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:699885.94' / Y:450684.56'
LAT:32.23796735N / LON:103.82054119W
NAD 27, SPCS NM EAST
X:658702.05' / Y:450625.53'
LAT:32.23784421N / LON:103.82005608W
ELEVATION = 3467'

WELL 10
NUGGET 6_31 FED COM 12H
OXY USA, INC.
418' FNL 1,762' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:699915.99' / Y:450684.51'
LAT:32.23796682N / LON:103.82044400W
NAD 27, SPCS NM EAST
X:658732.10' / Y:450625.48'
LAT:32.23784368N / LON:103.81995891W
ELEVATION = 3468'

WELL 11
NUGGET 6_31 FED COM 21H
OXY USA, INC.
418' FNL 1,822' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:699975.94' / Y:450684.47'
LAT:32.23796592N / LON:103.82025011W
NAD 27, SPCS NM EAST
X:658792.05' / Y:450625.44'
LAT:32.23784278N / LON:103.81976502W
ELEVATION = 3470'

WELL 12
NUGGET 6_31 FED COM 22H
OXY USA, INC.
419' FNL 1,852' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:700005.99' / Y:450684.49'
LAT:32.23796558N / LON:103.82015292W
NAD 27, SPCS NM EAST
X:658822.10' / Y:450625.49'
LAT:32.23784244N / LON:103.81966784W
ELEVATION = 3471'

WELL 13
NUGGET 6_31 FED COM 23H
OXY USA, INC.
419' FNL 1,732' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:700036.01' / Y:450684.53'
LAT:32.23796530N / LON:103.82005583W
NAD 27, SPCS NM EAST
X:658852.12' / Y:450625.50'
LAT:32.23784216N / LON:103.81957075W
ELEVATION = 3472'

WELL 14
NUGGET 6_31 FED COM 43H
OXY USA, INC.
419' FNL 1,762' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:700066.00' / Y:450684.51'
LAT:32.23796485N / LON:103.81995884W
NAD 27, SPCS NM EAST
X:658882.11' / Y:450625.48'
LAT:32.23784171N / LON:103.81947375W
ELEVATION = 3472'

WELL 15
NUGGET 6_31 FED COM 48H
OXY USA, INC.
419' FNL 1,822' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:700125.96' / Y:450684.54'
LAT:32.23796414N / LON:103.81976492W
NAD 27, SPCS NM EAST
X:658942.07' / Y:450625.51'
LAT:32.23784100N / LON:103.81927984W
ELEVATION = 3473'

WELL 16
NUGGET 6_31 FED COM 44H
OXY USA, INC.
419' FNL 1,852' FWL, SECTION 7
NAD 83, SPCS NM EAST
X:700156.00' / Y:450684.52'
LAT:32.23796369N / LON:103.81966776W
NAD 27, SPCS NM EAST
X:658972.11' / Y:450625.49'
LAT:32.23784055N / LON:103.81918269W
ELEVATION = 3472'

07/20/2023 08/07/2023

DATE SURVEYED DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

2 08/05/2025 JMW

REV. DATE BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833°.)

LEGEND

	EXISTING ROAD		OHP	OVERHEAD POWER
	PROPOSED ROAD		x	FENCE
	SURFACE SITE EDGE		SECTION LINE	
	EXIST. PIPELINE		PROPERTY LINE	
			W	WATER LINE
			SWD	SALT WATER LINE
	MONUMENT		QUARTER SPLIT	

AUG 07, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS01
SHEET 3 OF 3

Oxy USA Inc. - NUGGET 6_31 FED COM 43H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	8707	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	19106	Deepest Expected Fresh Water (ft):	569

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	569	569	
Salado	947	947	Salt
Marker Bed 126	1801	1801	Salt
Castile	2821	2821	Salt
Delaware	4207	4200	Oil/Gas/Brine
Bell Canyon	4237	4230	Oil/Gas/Brine
Cherry Canyon	5179	5138	Oil/Gas/Brine
Brushy Canyon	6488	6390	Losses
Bone Spring	8234	8060	Oil/Gas
Bone Spring 1st			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

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	639	0	639	10.75	40.5	J-55	BTC
Intermediate	9.875	0	8266	0	8086	7.625	26.4	L-80 HC	BTC
Production	6.75	0	19106	0	8707	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	535	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	205	1.68	13.2	5%	6,738	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1045	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	642	1.84	13.3	25%	7,766	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

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	8086
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				
6.75" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	8707
		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 (intermediate and production) requirements as per the agreement reached in the OXY/BLM meeting on April 4th, 2025. 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	639	0	639	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	639	8266	639	8086	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	8266	19106	8086	8707	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, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

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	4347 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	150°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 4 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the snudder rig.	Yes
Total Estimated Cuttings Volume: 1338 bbls	

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Nugget 6_31

Nugget 6_31 Fed Com 43H

ORIG HOLE

Plan: Permitting Plan

Standard Planning Report

21 August, 2025

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nugget 6_31 Fed Com 43H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3496.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3496.00ft
Site:	Nugget 6_31	North Reference:	Grid
Well:	Nugget 6_31 Fed Com 43H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIG HOLE		
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	Nugget 6_31		
Site Position:		Northing:	450,899.01 usft
From:	Map	Easting:	698,758.94 usft
Position Uncertainty:	0.89 ft	Slot Radius:	13.200 in
		Latitude:	32.238572
		Longitude:	-103.824183

Well	Nugget 6_31 Fed Com 43H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	6.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.27 °		
		Latitude:	32.237965
		Longitude:	-103.819959
		Ground Level:	3,472.00 ft

Wellbore	ORIG HOLE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	4/2/2024	6.37	59.78	47,402.10000000

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 (°)
	0.00	0.00	0.00	8.57

Plan Survey Tool Program	Date	8/21/2025		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	19,104.71	Permitting Plan (ORIG HOLE)	SQC_C705Mb_MWD+IFR1
				MWD+IFR1+Sag+FDIR

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	
3,115.00	0.00	0.00	3,115.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,815.48	17.00	64.51	4,790.63	107.79	226.12	1.00	1.00	0.00	64.51	
8,364.61	17.00	64.51	8,184.59	554.43	1,163.06	0.00	0.00	0.00	0.00	
9,190.79	89.78	359.79	8,668.00	1,121.29	1,294.12	10.00	8.81	-7.83	-65.76	
17,291.79	89.78	359.79	8,698.74	9,222.18	1,264.22	0.00	0.00	0.00	0.00	PI-1 (Nugget 6_31
18,640.05	89.78	20.01	8,703.89	10,543.47	1,494.84	1.50	0.00	1.50	90.03	
19,104.71	89.78	20.01	8,705.64	10,980.07	1,653.86	0.00	0.00	0.00	0.00	PBHL (Nugget 6_31

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nugget 6_31 Fed Com 43H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3496.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3496.00ft
Site:	Nugget 6_31	North Reference:	Grid
Well:	Nugget 6_31 Fed Com 43H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIG HOLE		
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
3,115.00	0.00	0.00	3,115.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1°/100'									
3,200.00	0.85	64.51	3,200.00	0.27	0.57	0.35	1.00	1.00	0.00
3,300.00	1.85	64.51	3,299.97	1.29	2.70	1.67	1.00	1.00	0.00
3,400.00	2.85	64.51	3,399.88	3.05	6.40	3.97	1.00	1.00	0.00
3,500.00	3.85	64.51	3,499.71	5.56	11.67	7.24	1.00	1.00	0.00
3,600.00	4.85	64.51	3,599.42	8.83	18.52	11.49	1.00	1.00	0.00
3,700.00	5.85	64.51	3,698.98	12.84	26.93	16.71	1.00	1.00	0.00
3,800.00	6.85	64.51	3,798.37	17.60	36.92	22.90	1.00	1.00	0.00
3,900.00	7.85	64.51	3,897.55	23.10	48.47	30.07	1.00	1.00	0.00
4,000.00	8.85	64.51	3,996.49	29.35	61.58	38.20	1.00	1.00	0.00
4,100.00	9.85	64.51	4,095.16	36.34	76.24	47.29	1.00	1.00	0.00
4,200.00	10.85	64.51	4,193.53	44.07	92.46	57.35	1.00	1.00	0.00
4,300.00	11.85	64.51	4,291.57	52.54	110.22	68.37	1.00	1.00	0.00
4,400.00	12.85	64.51	4,389.25	61.75	129.53	80.35	1.00	1.00	0.00
4,500.00	13.85	64.51	4,486.55	71.68	150.37	93.28	1.00	1.00	0.00
4,600.00	14.85	64.51	4,583.43	82.35	172.74	107.16	1.00	1.00	0.00
4,700.00	15.85	64.51	4,679.86	93.74	196.64	121.98	1.00	1.00	0.00
4,800.00	16.85	64.51	4,775.82	105.85	222.05	137.74	1.00	1.00	0.00
4,815.48	17.00	64.51	4,790.63	107.79	226.12	140.27	1.00	1.00	0.00
Hold 17° Tangent									
4,900.00	17.00	64.51	4,871.45	118.43	248.43	154.11	0.00	0.00	0.00
5,000.00	17.00	64.51	4,967.08	131.01	274.83	170.48	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nugget 6_31 Fed Com 43H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3496.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3496.00ft
Site:	Nugget 6_31	North Reference:	Grid
Well:	Nugget 6_31 Fed Com 43H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIG HOLE		
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)
5,100.00	17.00	64.51	5,062.71	143.60	301.23	186.86	0.00	0.00	0.00
5,200.00	17.00	64.51	5,158.33	156.18	327.63	203.24	0.00	0.00	0.00
5,300.00	17.00	64.51	5,253.96	168.76	354.03	219.61	0.00	0.00	0.00
5,400.00	17.00	64.51	5,349.59	181.35	380.43	235.99	0.00	0.00	0.00
5,500.00	17.00	64.51	5,445.22	193.93	406.83	252.36	0.00	0.00	0.00
5,600.00	17.00	64.51	5,540.85	206.52	433.22	268.74	0.00	0.00	0.00
5,700.00	17.00	64.51	5,636.47	219.10	459.62	285.12	0.00	0.00	0.00
5,800.00	17.00	64.51	5,732.10	231.69	486.02	301.49	0.00	0.00	0.00
5,900.00	17.00	64.51	5,827.73	244.27	512.42	317.87	0.00	0.00	0.00
6,000.00	17.00	64.51	5,923.36	256.86	538.82	334.24	0.00	0.00	0.00
6,100.00	17.00	64.51	6,018.99	269.44	565.22	350.62	0.00	0.00	0.00
6,200.00	17.00	64.51	6,114.61	282.02	591.62	367.00	0.00	0.00	0.00
6,300.00	17.00	64.51	6,210.24	294.61	618.02	383.37	0.00	0.00	0.00
6,400.00	17.00	64.51	6,305.87	307.19	644.42	399.75	0.00	0.00	0.00
6,500.00	17.00	64.51	6,401.50	319.78	670.82	416.12	0.00	0.00	0.00
6,600.00	17.00	64.51	6,497.13	332.36	697.22	432.50	0.00	0.00	0.00
6,700.00	17.00	64.51	6,592.75	344.95	723.61	448.88	0.00	0.00	0.00
6,800.00	17.00	64.51	6,688.38	357.53	750.01	465.25	0.00	0.00	0.00
6,900.00	17.00	64.51	6,784.01	370.12	776.41	481.63	0.00	0.00	0.00
7,000.00	17.00	64.51	6,879.64	382.70	802.81	498.00	0.00	0.00	0.00
7,100.00	17.00	64.51	6,975.27	395.28	829.21	514.38	0.00	0.00	0.00
7,200.00	17.00	64.51	7,070.89	407.87	855.61	530.76	0.00	0.00	0.00
7,300.00	17.00	64.51	7,166.52	420.45	882.01	547.13	0.00	0.00	0.00
7,336.13	17.00	64.51	7,201.07	425.00	891.55	553.05	0.00	0.00	0.00
PPP-1 Cross									
7,400.00	17.00	64.51	7,262.15	433.04	908.41	563.51	0.00	0.00	0.00
7,500.00	17.00	64.51	7,357.78	445.62	934.81	579.89	0.00	0.00	0.00
7,600.00	17.00	64.51	7,453.41	458.21	961.21	596.26	0.00	0.00	0.00
7,700.00	17.00	64.51	7,549.03	470.79	987.61	612.64	0.00	0.00	0.00
7,800.00	17.00	64.51	7,644.66	483.38	1,014.01	629.01	0.00	0.00	0.00
7,900.00	17.00	64.51	7,740.29	495.96	1,040.40	645.39	0.00	0.00	0.00
8,000.00	17.00	64.51	7,835.92	508.54	1,066.80	661.77	0.00	0.00	0.00
8,100.00	17.00	64.51	7,931.55	521.13	1,093.20	678.14	0.00	0.00	0.00
8,200.00	17.00	64.51	8,027.18	533.71	1,119.60	694.52	0.00	0.00	0.00
8,300.00	17.00	64.51	8,122.80	546.30	1,146.00	710.89	0.00	0.00	0.00
8,364.61	17.00	64.51	8,184.59	554.43	1,163.06	721.47	0.00	0.00	0.00
KOP, Build & Turn 10°/100'									
8,400.00	18.73	54.42	8,218.28	559.96	1,172.35	728.33	10.00	4.87	-28.53
8,500.00	25.63	34.95	8,310.95	587.10	1,197.86	758.97	10.00	6.90	-19.47
8,600.00	34.03	23.92	8,397.68	630.52	1,221.66	805.45	10.00	8.40	-11.03
8,700.00	43.05	16.96	8,475.86	688.90	1,243.01	866.35	10.00	9.02	-6.96
8,800.00	52.37	12.04	8,543.09	760.46	1,261.27	939.83	10.00	9.32	-4.91
8,900.00	61.85	8.24	8,597.34	843.03	1,275.89	1,023.66	10.00	9.48	-3.80
9,000.00	71.42	5.06	8,636.95	934.10	1,286.42	1,115.29	10.00	9.57	-3.18
9,100.00	81.04	2.23	8,660.74	1,030.91	1,292.54	1,211.92	10.00	9.61	-2.83
9,190.79	89.78	359.79	8,668.00	1,121.29	1,294.12	1,301.54	10.00	9.63	-2.69
Landing Point									
9,200.00	89.78	359.79	8,668.03	1,130.51	1,294.09	1,310.64	0.00	0.00	0.00
9,300.00	89.78	359.79	8,668.41	1,230.51	1,293.72	1,409.47	0.00	0.00	0.00
9,400.00	89.78	359.79	8,668.79	1,330.51	1,293.35	1,508.30	0.00	0.00	0.00
9,500.00	89.78	359.79	8,669.17	1,430.50	1,292.98	1,607.13	0.00	0.00	0.00
9,600.00	89.78	359.79	8,669.55	1,530.50	1,292.61	1,705.96	0.00	0.00	0.00
9,700.00	89.78	359.79	8,669.93	1,630.50	1,292.24	1,804.78	0.00	0.00	0.00
9,800.00	89.78	359.79	8,670.31	1,730.50	1,291.87	1,903.61	0.00	0.00	0.00
9,900.00	89.78	359.79	8,670.69	1,830.50	1,291.50	2,002.44	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nugget 6_31 Fed Com 43H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3496.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3496.00ft
Site:	Nugget 6_31	North Reference:	Grid
Well:	Nugget 6_31 Fed Com 43H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIG HOLE		
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)
10,000.00	89.78	359.79	8,671.07	1,930.50	1,291.14	2,101.27	0.00	0.00	0.00
10,100.00	89.78	359.79	8,671.45	2,030.50	1,290.77	2,200.10	0.00	0.00	0.00
10,200.00	89.78	359.79	8,671.83	2,130.49	1,290.40	2,298.93	0.00	0.00	0.00
10,300.00	89.78	359.79	8,672.21	2,230.49	1,290.03	2,397.75	0.00	0.00	0.00
10,400.00	89.78	359.79	8,672.59	2,330.49	1,289.66	2,496.58	0.00	0.00	0.00
10,500.00	89.78	359.79	8,672.97	2,430.49	1,289.29	2,595.41	0.00	0.00	0.00
10,600.00	89.78	359.79	8,673.35	2,530.49	1,288.92	2,694.24	0.00	0.00	0.00
10,700.00	89.78	359.79	8,673.73	2,630.49	1,288.55	2,793.07	0.00	0.00	0.00
10,800.00	89.78	359.79	8,674.10	2,730.49	1,288.18	2,891.90	0.00	0.00	0.00
10,900.00	89.78	359.79	8,674.48	2,830.48	1,287.81	2,990.72	0.00	0.00	0.00
11,000.00	89.78	359.79	8,674.86	2,930.48	1,287.44	3,089.55	0.00	0.00	0.00
11,100.00	89.78	359.79	8,675.24	3,030.48	1,287.07	3,188.38	0.00	0.00	0.00
11,200.00	89.78	359.79	8,675.62	3,130.48	1,286.71	3,287.21	0.00	0.00	0.00
11,300.00	89.78	359.79	8,676.00	3,230.48	1,286.34	3,386.04	0.00	0.00	0.00
11,400.00	89.78	359.79	8,676.38	3,330.48	1,285.97	3,484.86	0.00	0.00	0.00
11,500.00	89.78	359.79	8,676.76	3,430.48	1,285.60	3,583.69	0.00	0.00	0.00
11,600.00	89.78	359.79	8,677.14	3,530.47	1,285.23	3,682.52	0.00	0.00	0.00
11,700.00	89.78	359.79	8,677.52	3,630.47	1,284.86	3,781.35	0.00	0.00	0.00
11,800.00	89.78	359.79	8,677.90	3,730.47	1,284.49	3,880.18	0.00	0.00	0.00
11,900.00	89.78	359.79	8,678.28	3,830.47	1,284.12	3,979.01	0.00	0.00	0.00
12,000.00	89.78	359.79	8,678.66	3,930.47	1,283.75	4,077.83	0.00	0.00	0.00
12,100.00	89.78	359.79	8,679.04	4,030.47	1,283.38	4,176.66	0.00	0.00	0.00
12,200.00	89.78	359.79	8,679.42	4,130.47	1,283.01	4,275.49	0.00	0.00	0.00
12,300.00	89.78	359.79	8,679.80	4,230.46	1,282.65	4,374.32	0.00	0.00	0.00
12,400.00	89.78	359.79	8,680.18	4,330.46	1,282.28	4,473.15	0.00	0.00	0.00
12,500.00	89.78	359.79	8,680.56	4,430.46	1,281.91	4,571.97	0.00	0.00	0.00
12,600.00	89.78	359.79	8,680.94	4,530.46	1,281.54	4,670.80	0.00	0.00	0.00
12,700.00	89.78	359.79	8,681.31	4,630.46	1,281.17	4,769.63	0.00	0.00	0.00
12,800.00	89.78	359.79	8,681.69	4,730.46	1,280.80	4,868.46	0.00	0.00	0.00
12,900.00	89.78	359.79	8,682.07	4,830.46	1,280.43	4,967.29	0.00	0.00	0.00
13,000.00	89.78	359.79	8,682.45	4,930.45	1,280.06	5,066.12	0.00	0.00	0.00
13,100.00	89.78	359.79	8,682.83	5,030.45	1,279.69	5,164.94	0.00	0.00	0.00
13,200.00	89.78	359.79	8,683.21	5,130.45	1,279.32	5,263.77	0.00	0.00	0.00
13,300.00	89.78	359.79	8,683.59	5,230.45	1,278.95	5,362.60	0.00	0.00	0.00
13,400.00	89.78	359.79	8,683.97	5,330.45	1,278.59	5,461.43	0.00	0.00	0.00
13,500.00	89.78	359.79	8,684.35	5,430.45	1,278.22	5,560.26	0.00	0.00	0.00
13,600.00	89.78	359.79	8,684.73	5,530.45	1,277.85	5,659.09	0.00	0.00	0.00
13,700.00	89.78	359.79	8,685.11	5,630.45	1,277.48	5,757.91	0.00	0.00	0.00
13,783.56	89.78	359.79	8,685.43	5,714.00	1,277.17	5,840.49	0.00	0.00	0.00
PPP-2 Cross									
13,800.00	89.78	359.79	8,685.49	5,730.44	1,277.11	5,856.74	0.00	0.00	0.00
13,900.00	89.78	359.79	8,685.87	5,830.44	1,276.74	5,955.57	0.00	0.00	0.00
14,000.00	89.78	359.79	8,686.25	5,930.44	1,276.37	6,054.40	0.00	0.00	0.00
14,100.00	89.78	359.79	8,686.63	6,030.44	1,276.00	6,153.23	0.00	0.00	0.00
14,200.00	89.78	359.79	8,687.01	6,130.44	1,275.63	6,252.05	0.00	0.00	0.00
14,300.00	89.78	359.79	8,687.39	6,230.44	1,275.26	6,350.88	0.00	0.00	0.00
14,400.00	89.78	359.79	8,687.77	6,330.44	1,274.89	6,449.71	0.00	0.00	0.00
14,500.00	89.78	359.79	8,688.15	6,430.43	1,274.53	6,548.54	0.00	0.00	0.00
14,600.00	89.78	359.79	8,688.53	6,530.43	1,274.16	6,647.37	0.00	0.00	0.00
14,700.00	89.78	359.79	8,688.90	6,630.43	1,273.79	6,746.20	0.00	0.00	0.00
14,800.00	89.78	359.79	8,689.28	6,730.43	1,273.42	6,845.02	0.00	0.00	0.00
14,900.00	89.78	359.79	8,689.66	6,830.43	1,273.05	6,943.85	0.00	0.00	0.00
15,000.00	89.78	359.79	8,690.04	6,930.43	1,272.68	7,042.68	0.00	0.00	0.00
15,100.00	89.78	359.79	8,690.42	7,030.43	1,272.31	7,141.51	0.00	0.00	0.00
15,200.00	89.78	359.79	8,690.80	7,130.42	1,271.94	7,240.34	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nugget 6_31 Fed Com 43H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3496.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3496.00ft
Site:	Nugget 6_31	North Reference:	Grid
Well:	Nugget 6_31 Fed Com 43H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIG HOLE		
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)
15,300.00	89.78	359.79	8,691.18	7,230.42	1,271.57	7,339.16	0.00	0.00	0.00
15,400.00	89.78	359.79	8,691.56	7,330.42	1,271.20	7,437.99	0.00	0.00	0.00
15,500.00	89.78	359.79	8,691.94	7,430.42	1,270.83	7,536.82	0.00	0.00	0.00
15,600.00	89.78	359.79	8,692.32	7,530.42	1,270.47	7,635.65	0.00	0.00	0.00
15,700.00	89.78	359.79	8,692.70	7,630.42	1,270.10	7,734.48	0.00	0.00	0.00
15,800.00	89.78	359.79	8,693.08	7,730.42	1,269.73	7,833.31	0.00	0.00	0.00
15,900.00	89.78	359.79	8,693.46	7,830.41	1,269.36	7,932.13	0.00	0.00	0.00
16,000.00	89.78	359.79	8,693.84	7,930.41	1,268.99	8,030.96	0.00	0.00	0.00
16,100.00	89.78	359.79	8,694.22	8,030.41	1,268.62	8,129.79	0.00	0.00	0.00
16,200.00	89.78	359.79	8,694.60	8,130.41	1,268.25	8,228.62	0.00	0.00	0.00
16,300.00	89.78	359.79	8,694.98	8,230.41	1,267.88	8,327.45	0.00	0.00	0.00
16,400.00	89.78	359.79	8,695.36	8,330.41	1,267.51	8,426.28	0.00	0.00	0.00
16,500.00	89.78	359.79	8,695.74	8,430.41	1,267.14	8,525.10	0.00	0.00	0.00
16,600.00	89.78	359.79	8,696.11	8,530.40	1,266.77	8,623.93	0.00	0.00	0.00
16,700.00	89.78	359.79	8,696.49	8,630.40	1,266.41	8,722.76	0.00	0.00	0.00
16,800.00	89.78	359.79	8,696.87	8,730.40	1,266.04	8,821.59	0.00	0.00	0.00
16,900.00	89.78	359.79	8,697.25	8,830.40	1,265.67	8,920.42	0.00	0.00	0.00
17,000.00	89.78	359.79	8,697.63	8,930.40	1,265.30	9,019.24	0.00	0.00	0.00
17,100.00	89.78	359.79	8,698.01	9,030.40	1,264.93	9,118.07	0.00	0.00	0.00
17,200.00	89.78	359.79	8,698.39	9,130.40	1,264.56	9,216.90	0.00	0.00	0.00
17,291.79	89.78	359.79	8,698.74	9,222.18	1,264.22	9,307.61	0.00	0.00	0.00
Turn 1.5°/100'									
17,300.00	89.78	359.91	8,698.77	9,230.39	1,264.20	9,315.73	1.50	0.00	1.50
17,400.00	89.78	1.41	8,699.15	9,330.38	1,265.35	9,414.78	1.50	0.00	1.50
17,500.00	89.78	2.91	8,699.53	9,430.31	1,269.13	9,514.15	1.50	0.00	1.50
17,600.00	89.78	4.41	8,699.92	9,530.10	1,275.51	9,613.78	1.50	0.00	1.50
17,700.00	89.78	5.91	8,700.30	9,629.69	1,284.51	9,713.60	1.50	0.00	1.50
17,800.00	89.78	7.41	8,700.68	9,729.01	1,296.11	9,813.54	1.50	0.00	1.50
17,900.00	89.78	8.91	8,701.07	9,828.00	1,310.31	9,913.53	1.50	0.00	1.50
18,000.00	89.78	10.41	8,701.45	9,926.58	1,327.09	10,013.51	1.50	0.00	1.50
18,100.00	89.78	11.91	8,701.83	10,024.68	1,346.45	10,113.41	1.50	0.00	1.50
18,200.00	89.78	13.41	8,702.22	10,122.25	1,368.36	10,213.15	1.50	0.00	1.50
18,300.00	89.78	14.91	8,702.60	10,219.20	1,392.83	10,312.67	1.50	0.00	1.50
18,400.00	89.78	16.41	8,702.98	10,315.49	1,419.82	10,411.90	1.50	0.00	1.50
18,500.00	89.78	17.91	8,703.36	10,411.03	1,449.33	10,510.77	1.50	0.00	1.50
18,600.00	89.78	19.41	8,703.74	10,505.77	1,481.33	10,609.22	1.50	0.00	1.50
18,640.05	89.78	20.01	8,703.89	10,543.47	1,494.84	10,648.52	1.50	0.00	1.50
Hold									
18,700.00	89.78	20.01	8,704.11	10,599.80	1,515.35	10,707.27	0.00	0.00	0.00
18,800.00	89.78	20.01	8,704.49	10,693.76	1,549.58	10,805.28	0.00	0.00	0.00
18,900.00	89.78	20.01	8,704.87	10,787.72	1,583.80	10,903.29	0.00	0.00	0.00
19,000.00	89.78	20.01	8,705.24	10,881.68	1,618.02	11,001.30	0.00	0.00	0.00
19,100.00	89.78	20.01	8,705.62	10,975.65	1,652.24	11,099.31	0.00	0.00	0.00
19,104.71	89.78	20.01	8,705.64	10,980.07	1,653.86	11,103.93	0.00	0.00	0.00
TD at 19104.71' MD									

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nugget 6_31 Fed Com 43H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB = 25' @ 3496.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB = 25' @ 3496.00ft
Site:	Nugget 6_31	North Reference:	Grid
Well:	Nugget 6_31 Fed Com 43H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIG HOLE		
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 (Nugget 6_31 - plan misses target center by 1303.95ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	124.92	1,297.95	450,809.42	701,363.87	32.238291	-103.815760
FTP (Nugget 6_31 Fed - plan misses target center by 254.29ft at 8720.11ft MD (8490.33 TVD, 702.30 N, 1246.95 E) - Point	0.00	0.00	8,665.73	524.93	1,296.32	451,209.41	701,362.24	32.239391	-103.815759
PI-1 (Nugget 6_31 Fed - plan hits target center - Point	0.00	0.00	8,698.74	9,222.18	1,264.22	459,906.10	701,330.14	32.263296	-103.815727
PBHL (Nugget 6_31 - plan hits target center - Point	0.00	0.00	8,705.64	10,980.07	1,653.86	461,663.88	701,719.75	32.268123	-103.814439

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
568.00	568.00	RUSTLER		0.00		
946.00	946.00	SALADO				
1,800.00	1,800.00	MARKER BED 126				
2,820.00	2,820.00	CASTILE				
4,205.57	4,199.00	DELAWARE				
4,236.14	4,229.00	BELL CANYON				
5,177.69	5,137.00	CHERRY CANYON				
6,486.93	6,389.00	BRUSHY CANYON				
8,233.28	8,059.00	BONE SPRING				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
3,115.00	3,115.00	0.00	0.00	Build 1°/100'	
4,815.48	4,790.63	107.79	226.12	Hold 17° Tangent	
7,336.13	7,201.07	425.00	891.55	PPP-1 Cross	
8,364.61	8,184.59	554.43	1,163.06	KOP, Build & Turn 10°/100'	
9,190.79	8,668.00	1,121.29	1,294.12	Landing Point	
13,783.56	8,685.43	5,714.00	1,277.17	PPP-2 Cross	
17,291.79	8,698.74	9,222.18	1,264.22	Turn 1.5°/100'	
18,640.05	8,703.89	10,543.47	1,494.84	Hold	
19,104.71	8,705.64	10,980.07	1,653.86	TD at 19104.71' MD	

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: <input type="checkbox"/> Initial Submittal <input checked="" type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-015-56041	Pool Code 13367	Pool Name COTTON DRAW; BONE SPRING
Property Code 329887	Property Name NUGGET 6_31 FED COM	Well Number 43H
OGRID No. 16696	Operator Name OXY USA INC.	Ground Level Elevation 3472'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
C	07	24S	31E		419' FNL	1762' FWL	32.23796485	-103.81995884	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
B	31	23S	31E		20' FNL	1880' FEL	32.26812289	-103.81443869	EDDY

Dedicated Acres 640.41	Infill or Defining Well INFILL	Defining Well API 30-015-48616	Overlapping Spacing Unit (Y/N) N	Consolidation Code N/A
Order Numbers: N/A			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
B	07	24S	31E		300' FNL	2280' FEL	32.23829108	-103.81575935	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
O	06	24S	31E		100' FSL	2280' FEL	32.23939059	-103.81575839	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
B	31	23S	31E		100' FNL	1880' FEL	32.26790298	-103.81443839	EDDY

Unitized Area or Area of Uniform Interest N/A	Spacing Unit Type: <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3472'
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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.

Sara Guthrie 8/25/2025
Signature Date

Sara Guthrie
Printed Name

sara_guthrie@oxy.com
Email Address

SURVEYOR CERTIFICATIONS

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



Signature and Seal of Professional Surveyor

Certificate Number

21653

Date of Survey

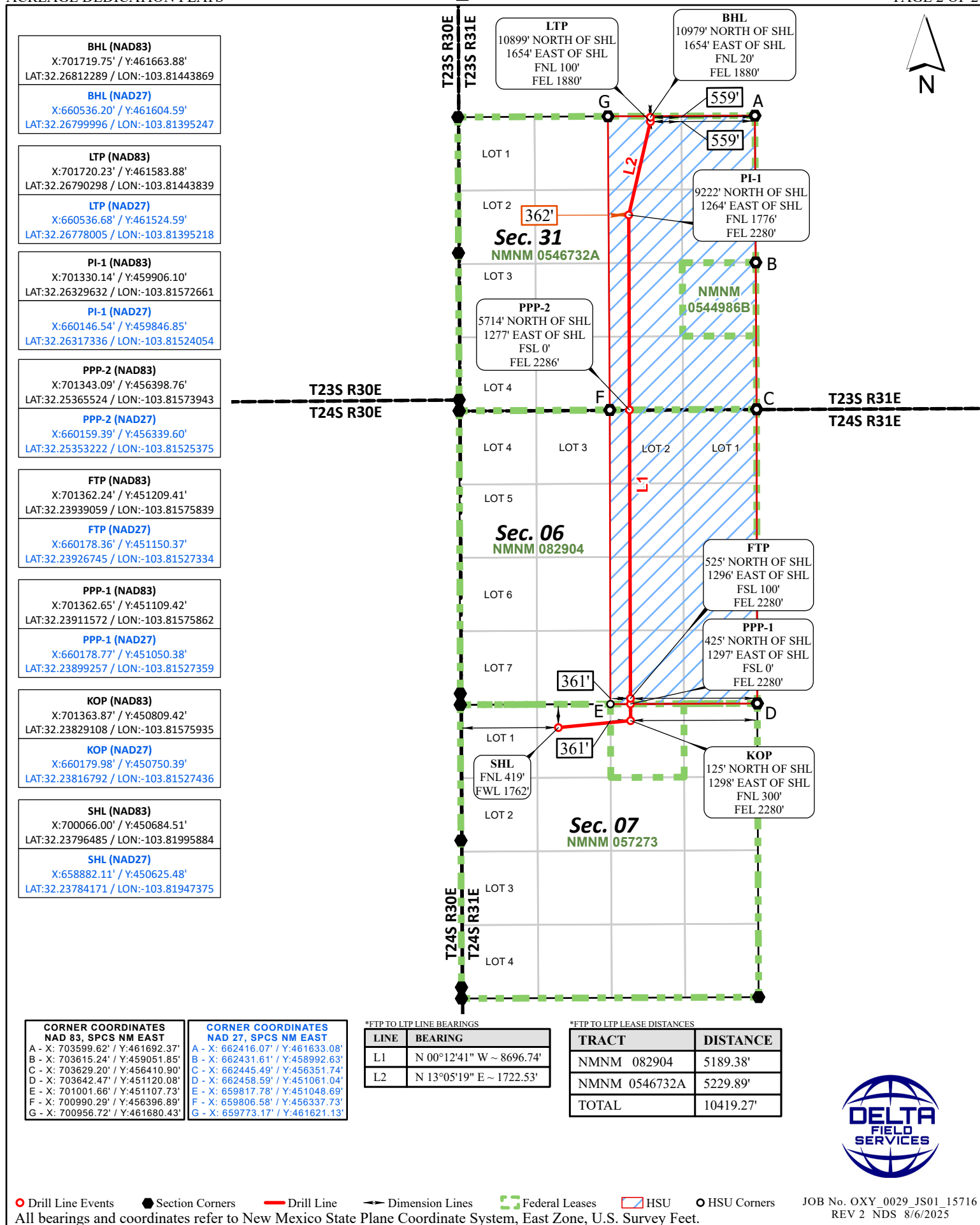
AUG 07, 2025

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

ACREAGE DEDICATION PLATS

NUGGET 6 31 FED COM 43H

PAGE 2 OF 2





Oxy Blanket 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	40.5	J-55	BTC
Intermediate	9.875	0	13111*	0	12775*	7.625	26.4	L-80 HC	BTC Axis HT GBCD
Production	6.75	0	23361	0	12775	5.5	20	P-110	Wedge 461 Sprint SF DWC/C-HT-IS Sprint-TC SC

*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 GBCD
Production	6.75	0	23361	0	12775	5.5	20	P-110	Wedge 461 Sprint SF DWC/C-HT-IS Sprint-TC SC

*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



Oxy Blanket Design - Casing Design "A"



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.

§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 Blanket 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

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

Offline Cementing Request

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

Bradenhead CBL Request

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



Oxy Blanket 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 Blanket 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 (intermediate and production) requirements as per the agreement reached in the OXY/BLM meeting on April 4th, 2025. 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 Blanket 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.

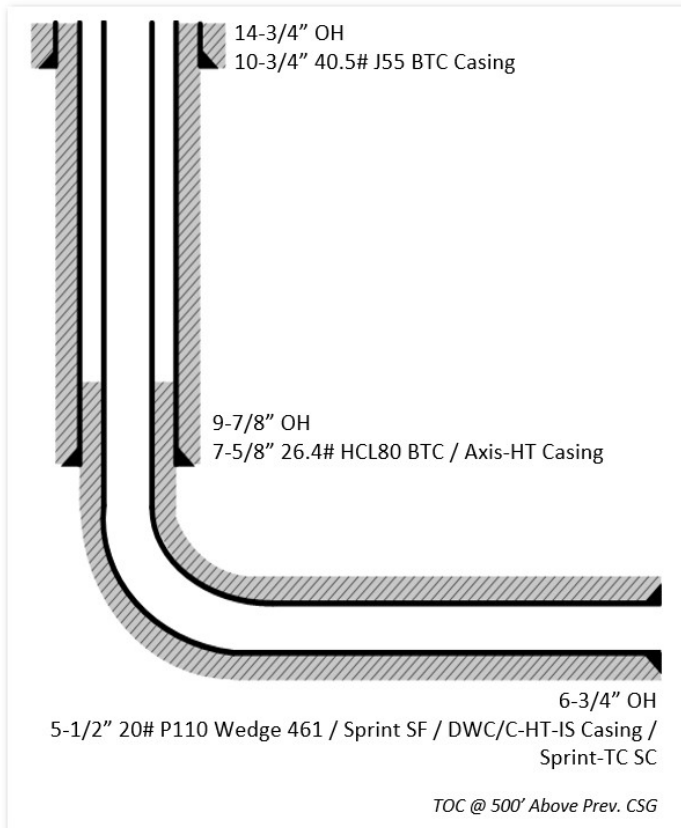


Oxy Blanket Design - Casing Design "A"

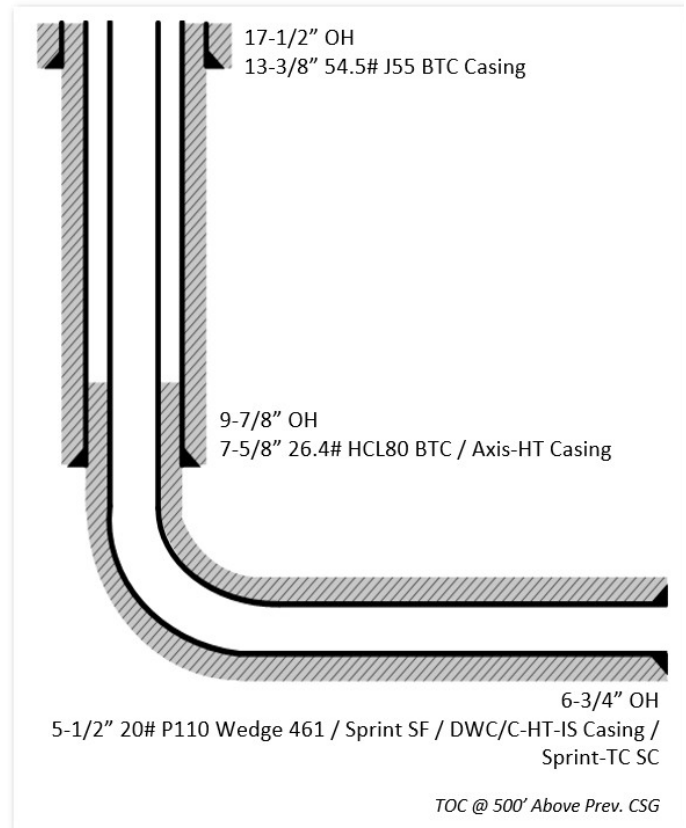


6. Wellbore Diagram(s)

Design Variation "A1"



Design Variation "A2"

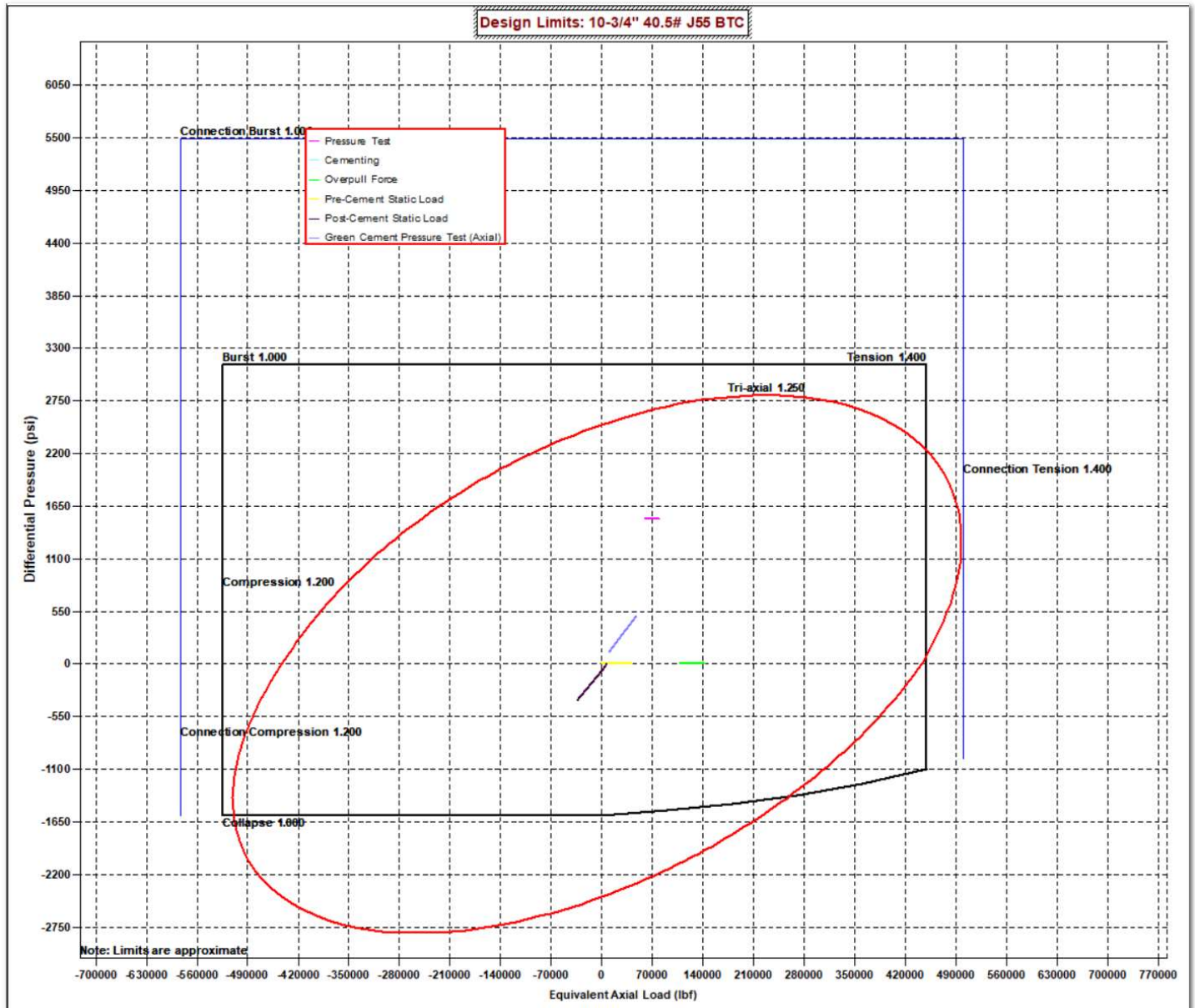




Oxy Blanket Design - Casing Design "A"

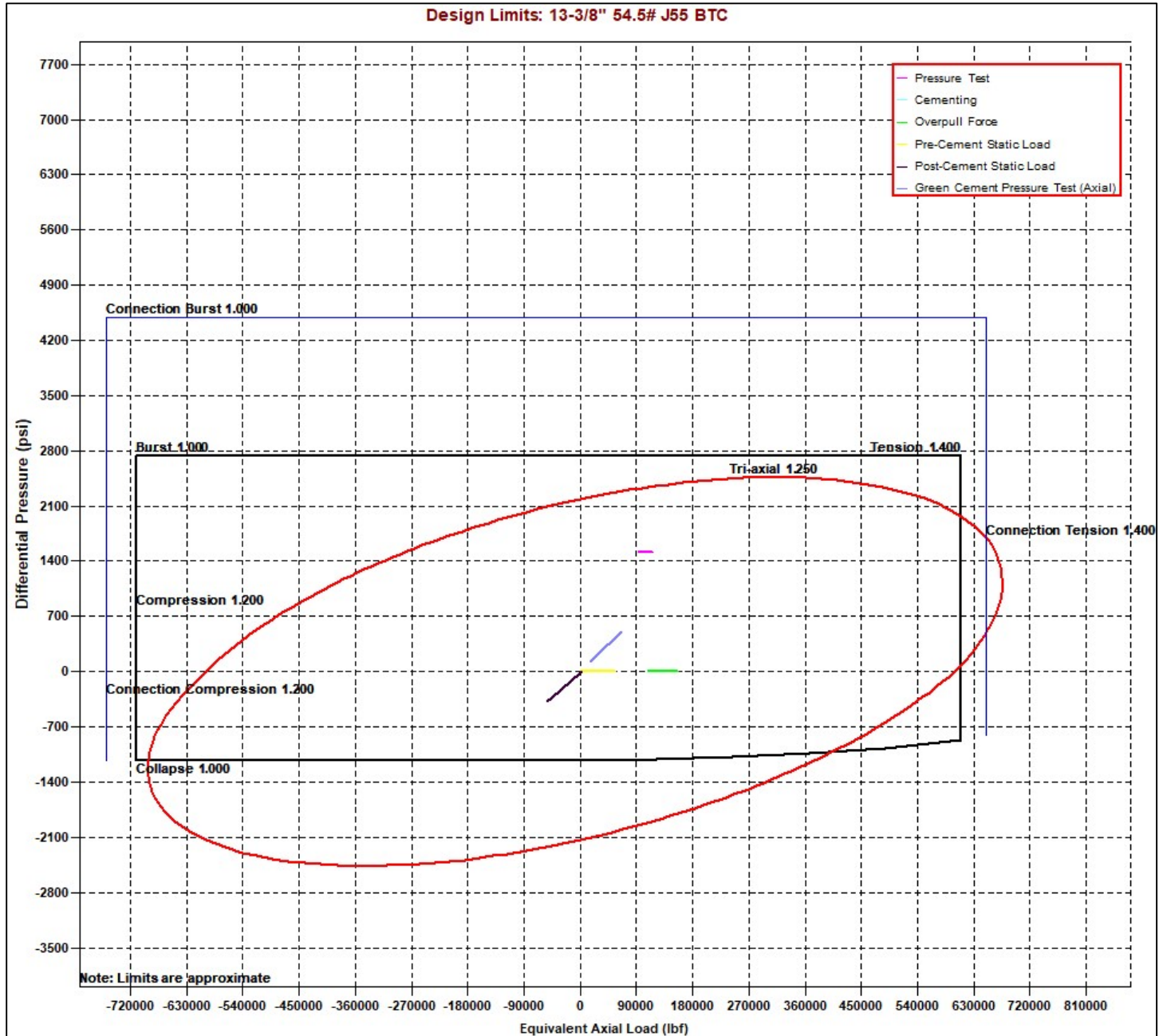


7. Landmark StressCheck Screenshots – Triaxial Output





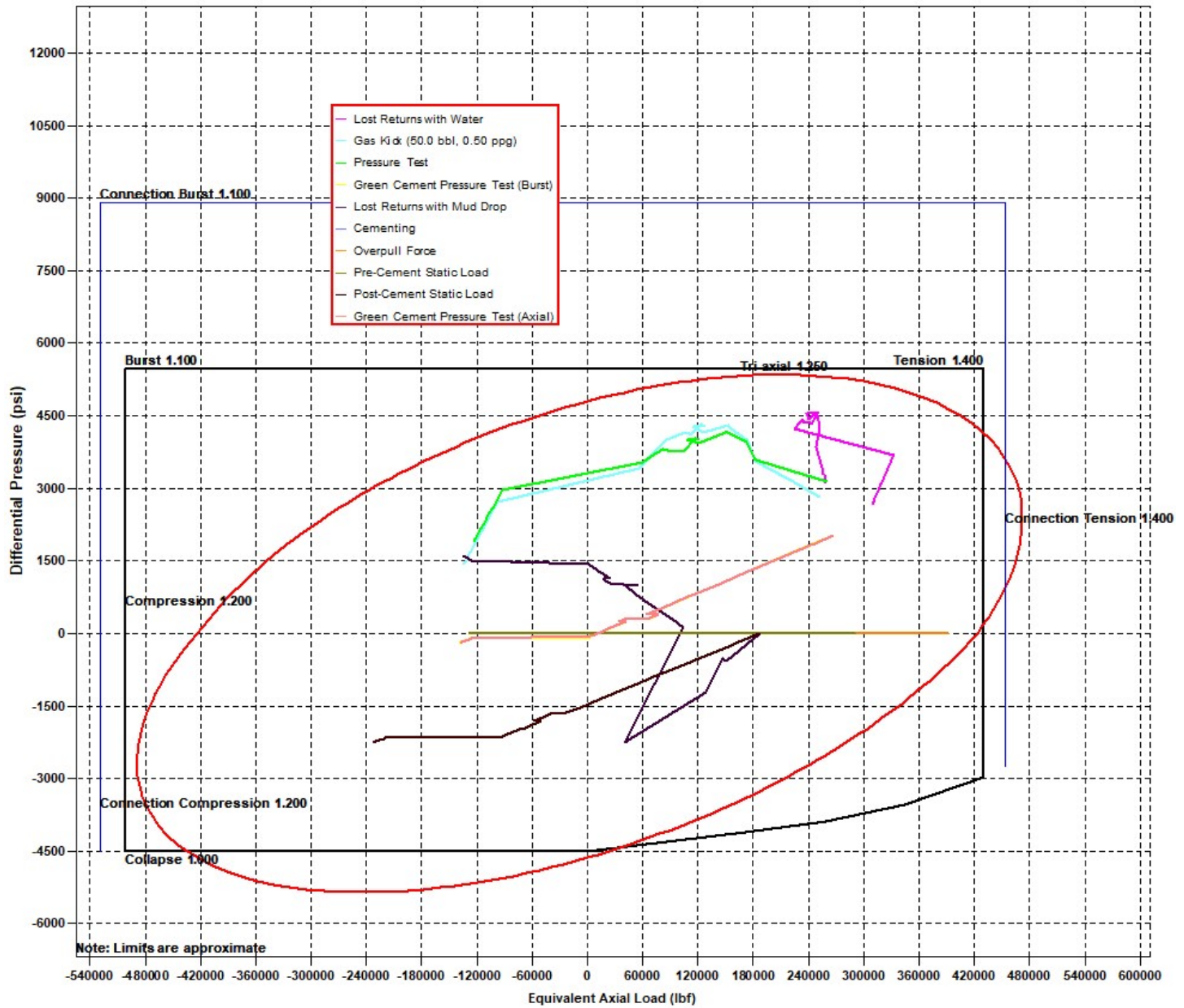
Oxy Blanket Design - Casing Design "A"





Oxy Blanket Design - Casing Design "A"

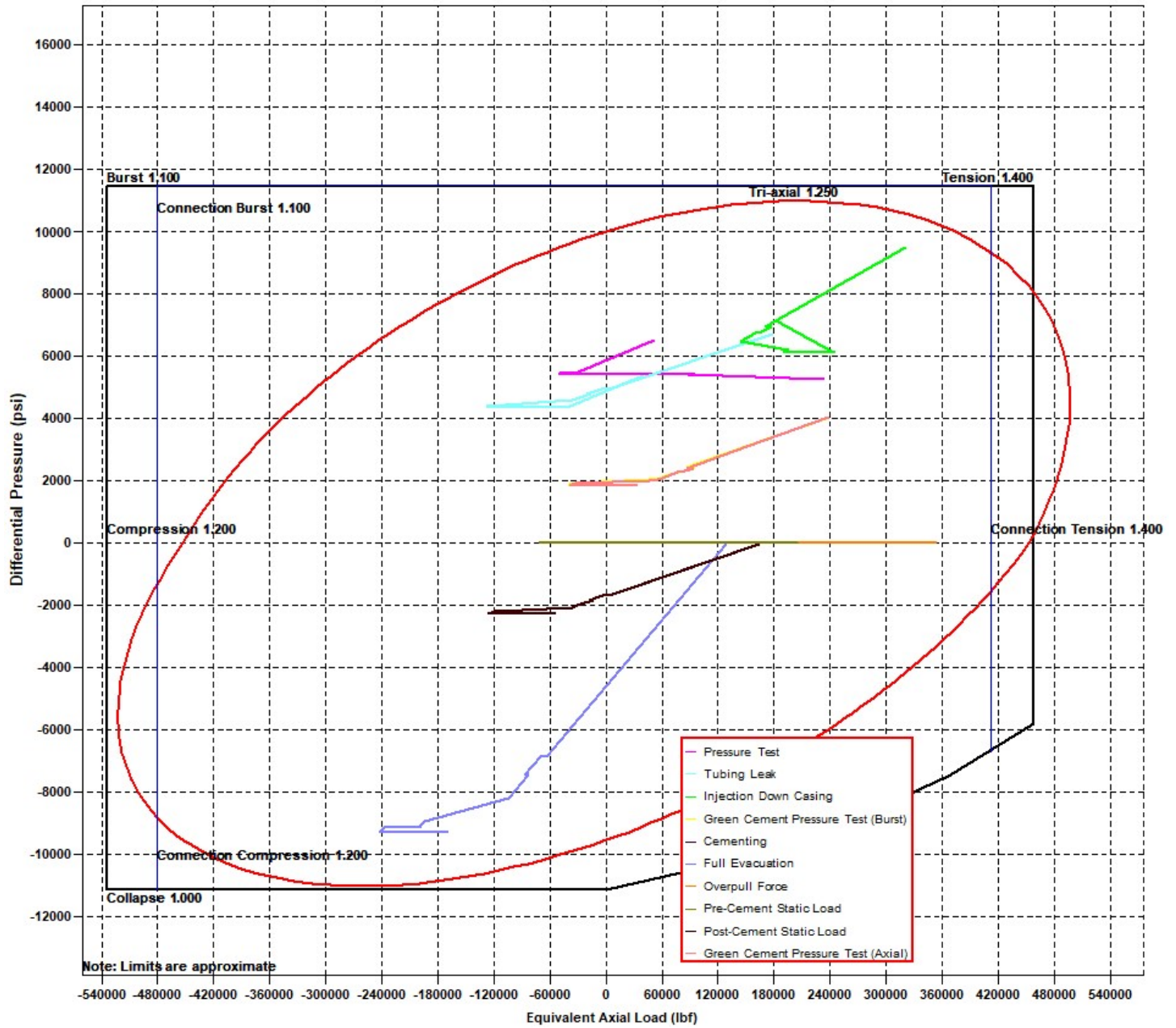
Design Limits: 7-5/8" 26.4# HC-L80 BTC





Oxy Blanket Design - Casing Design "A"

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





Oxy Blanket 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 Blanket 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 Blanket 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

Triaxial Results

	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 Blanket 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 Blanket Design - Casing Design "A"



11. Production Non-API Casing Spec Sheets

Printed on: 11/09/2021

TenarisHydril Wedge 461[®] MS



Coupling	Pipe Body
Grade: P110-4CY	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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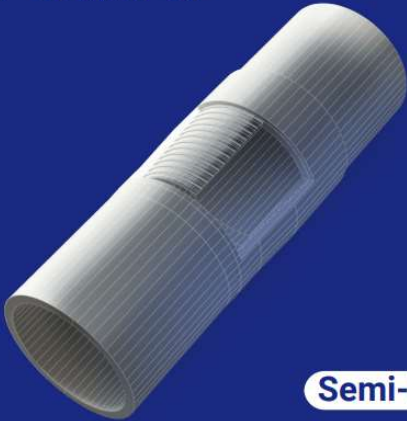
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CONNECTION DATA SHEET

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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Oxy Blanket 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 Blanket Design - Casing Design "A"



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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 Blanket Design - Casing Design "A"



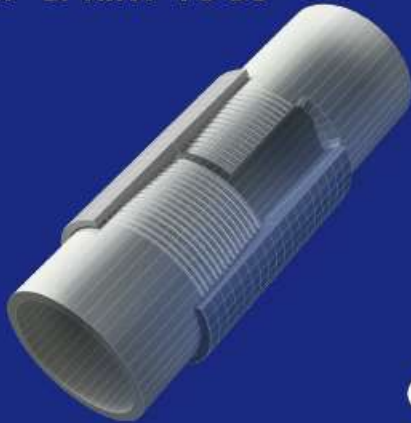
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CONNECTION DATA SHEET

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

VAM® SPRINT-TC SC



T&C

Field Torque Values

Make-up Torque (ft-lb)

23,000 MIN
24,000 OPTI
25,000 MAX

Torque with Sealability (ft-lb)

39,200 MTS

Locked Flank Torque (ft-lb)

1,200 MIN
16,800 MAX

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

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	High Yield	
Minimum Yield Strength	125	ksi
Maximum Yield Strength	140	ksi
Minimum Ultimate Tensile Strength	135	ksi
Pipe Body Yield Strength	729	kib
Internal Yield Pressure	14,360	psi
Collapse Pressure	12,090	psi

CONNECTION PROPERTIES

Connection Type	Semi-Premium Threaded & Coupled	
Nominal Connection OD	5.900	in.
Nominal Connection ID	4.830	in.
Make-up Loss	3.973	in.
Coupling Length	8.296	in.
Tension Efficiency	100	% Pipe Body
Compression Efficiency	100	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

JOINT PERFORMANCES

Tension Strength	729	kib
Compression Strength	729	kib
Internal Pressure Resistance	14,360	psi
External Pressure Resistance	12,090	psi
Maximum Bending, Structural	104	°/100 ft
Maximum Bending, with Sealability	30	°/100 ft
Maximum Load on Coupling Face	227	kib

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



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

CONDITIONS

Action 515461

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 515461
	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.	1/16/2026