

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

Well Name: NUGGET 6\_31 FEDERAL

COM

Well Location: T24S / R31E / SEC 6 /

SWSE / 32.2425883 / -103.8130732

County or Parish/State: EDDY /

Well Number: 26H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM82904

**Unit or CA Name:** 

**Unit or CA Number:** 

**US Well Number: 3001556050** 

**Operator: OXY USA INCORPORATED** 

#### **Notice of Intent**

**Sundry ID: 2861428** 

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

Date Sundry Submitted: 07/03/2025 **Time Sundry Submitted: 07:17** 

Date proposed operation will begin: 04/01/2026

Procedure Description: OXY USA Inc. respectfully requests approval to amend the subject well AAPD to change the BHL, Drill Plan, and Directional. BHL updated from NENE 20' FNL & 380' FEL to NENE 20' FNL & 295' FEL. 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\_31FEDCOM26H\_VAM\_DWC\_C\_HT\_IS\_5.500in\_20ppf\_P110RY\_20250703071601.pdf

NUGGET6\_31FEDCOM26H\_NewRoads\_20250703071550.pdf

NUGGET6\_31FEDCOM26H\_Existing\_Roads\_20250703071534.pdf

NUGGET6\_31FEDCOM26H\_DrillPlan\_20250703071521.pdf

Nugget6\_31FedCom26H\_DirectPlan\_20250703071510.pdf

NUGGET6\_31FEDCOM26H\_Combined\_Blanket\_Design\_20250703071457.pdf

NUGGET6\_31FEDCOM26H\_C102\_20250703071439.pdf

NUGGET6\_31FEDCOM26H\_BOPBreakTestingVariance2025\_20250703071426.pdf

NUGGET6\_31FEDCOM26H\_Blanket\_Design\_A\_Pad\_Review\_Document\_20250703071413.pdf

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eived by OCD: 10/15/2025 10:21:05 AM Well Name: NUGGET 6 31 FEDERAL

COM

Well Location: T24S / R31E / SEC 6 / SWSE / 32.2425883 / -103.8130732

County or Parish/State: Page 2 of 102

NM

Well Number: 26H

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**Unit or CA Name:** 

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**US Well Number:** 3001556050

**Operator: OXY USA INCORPORATED** 

NUGGET6\_31FEDCOM26H\_APDChangeWorksheet\_20250703071353.pdf

## **Conditions of Approval**

### **Additional**

Nugget\_6\_31\_Fed\_Com\_26H\_COA\_20251008113925.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: JUL 03, 2025 07:16 AM

Name: OXY USA INCORPORATED

Title: Regulatory Advisor

Street Address: 5 GREENWAY PLAZA SUITE 110

City: HOUSTON State: 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**

Signature: KEITH IMMATTY

**BLM POC Name: KEITH PIMMATTY BLM POC Title:** ENGINEER

**BLM POC Phone:** 5759884722 BLM POC Email Address: KIMMATTY@BLM.GOV

**Disposition:** Approved Disposition Date: 10/14/2025

Page 2 of 2

Form 3160-5 (October 2024)

## UNITED STATES DEPARTMENT OF THE INTERIOR PLIPE ALLOE I AND MANAGEMENT

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

DEPA	ARTMENT OF THE INTERIOR		Exp	ires: O	ctober 31, 2027
BURE	AU OF LAND MANAGEMEN	Γ	5. Lease Serial No.		
SUNDRY NO	OTICES AND REPORTS ON	WELLS	6. If Indian, Allottee or Tribe N	Name	
	orm for proposals to drill or				
abandoned well. U	lse Form 3160-3 (APD) for su	icn proposais.	7. If Unit of CA/Agreement, N	Iama ai	nd/or No
	RIPLICATE - Other instructions on pa	ige 2	- If Offit of CA/Agreement, N	iailie ai	nd/of No.
. Type of Well Oil Well Gas We	ell Other		8. Well Name and No.		
2. Name of Operator	All Other		9. API Well No.		
	21 71 27			A -	
a. Address	3b. Phone No	o. (include area code)	10. Field and Pool or Explorat	огу Аг	ea
Location of Well (Footage, Sec., T.,R.,	M., or Survey Description)		11. Country or Parish, State		
12. CHEC	K THE APPROPRIATE BOX(ES) TO I	NDICATE NATURE (	OF NOTICE, REPORT OR OTH	IER D	ATA
TYPE OF SUBMISSION		TYPE	E OF ACTION		
Notice of Intent	Acidize Dec	epen [	Production (Start/Resume)		Water Shut-Off
		draulic Fracturing	Reclamation		Well Integrity
Subsequent Report		w Construction	Recomplete		Other
		g and Abandon	Temporarily Abandon		
Final Abandonment Notice	Convert to Injection Plu	g Back	Water Disposal		
4. I hereby certify that the foregoing is to	rue and correct. Name (Printed/Typed)				
		Title			
Signature		Date			
	THE SPACE FOR FEI	DERAL OR STA	TE OFICE USE		
approved by					
		Title	I	Date	
	ed. Approval of this notice does not warra juitable title to those rights in the subject fuct operations thereon.	ant or	17		
:4- 10 II C C C: 1001 1 T:4- 42	U.S.C. Spotion 1212 make it a	anzi margan Irnazziil-	and willfully to make to d-	nontra-	ont or agamay of the United States

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

(Form 3160-5, page 2)

#### **Additional Information**

#### **Location of Well**

0. SHL: SWSE / 1263 FSL / 1453 FEL / TWSP: 24S / RANGE: 31E / SECTION: 6 / LAT: 32.2425883 / LONG: -103.8130732 ( TVD: 0 feet, MD: 0 feet ) PPP: SESE / 0 FSL / 388 FEL / TWSP: 23S / RANGE: 31E / SECTION: 31 / LAT: 32.2536576 / LONG: -103.8095993 ( TVD: 8687 feet, MD: 14393 feet ) PPP: SENE / 2641 FNL / 385 FEL / TWSP: 23S / RANGE: 31E / SECTION: 31 / LAT: 32.2609173 / LONG: -103.8095923 ( TVD: 8687 feet, MD: 17034 feet ) PPP: NESE / 1321 FSL / 386 FEL / TWSP: 23S / RANGE: 31E / SECTION: 31 / LAT: 32.2572874 / LONG: -103.8095958 ( TVD: 8687 feet, MD: 15714 feet ) PPP: SESE / 100 FSL / 380 FEL / TWSP: 24S / RANGE: 31E / SECTION: 6 / LAT: 32.2393897 / LONG: -103.8095958 ( TVD: 8687 feet, MD: 9336 feet ) BHL: NENE / 20 FNL / 380 FEL / TWSP: 23S / RANGE: 31E / SECTION: 31 / LAT: 32.2681214 / LONG: -103.8095857 ( TVD: 8687 feet, MD: 19656 feet )

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** OXY

WELL NAME & NO.: Nugget 6 31 Fed Com 26H

**LOCATION:** 7-24S-31E-NMP

**COUNTY:** Eddy County, New Mexico

Changes approved through engineering via **Sundry 2861428** on 10/8/2025. Any previous COAs not addressed within the updated COAs still apply.

## **Create COAs**

$ H_2S$	Cave / Karst	W	aste Prevention Rule
Not Reported	Low		Vaste Minimization Plan
Potash		R-111-Q Design	
Secretary			
Wellhead Multibowl	□ Liner <b>▽</b> F	Casing  3-String Well  Tuid Filled	Casing Clearance
<ul><li>✓ Flex Hose</li><li>✓ Break Testing</li></ul>	☐ DV Tool ☑ Offline Cement	Cementing  ✓ Bradenhead  ☐ Open Annulus	☐ Echometer ☐ Pilot Hole
☐ Capitan Reef	Special Requir  ☐ Water Disposal	rements  COM	☐ Unit

#### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S 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 640 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.
- 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.

Excess calculates to 16%. Additional cement maybe required.

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.

#### 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**, **excluding production**. 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**; (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 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - iii. BOP/BOPE test to be conducted per **43** CFR **3172** as soon as 2<sup>nd</sup> Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

#### A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or

- if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

#### **B. PRESSURE CONTROL**

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible

hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - iii. Manufacturer representative shall install the test plug for the initial BOP test.
  - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
  - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve

open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

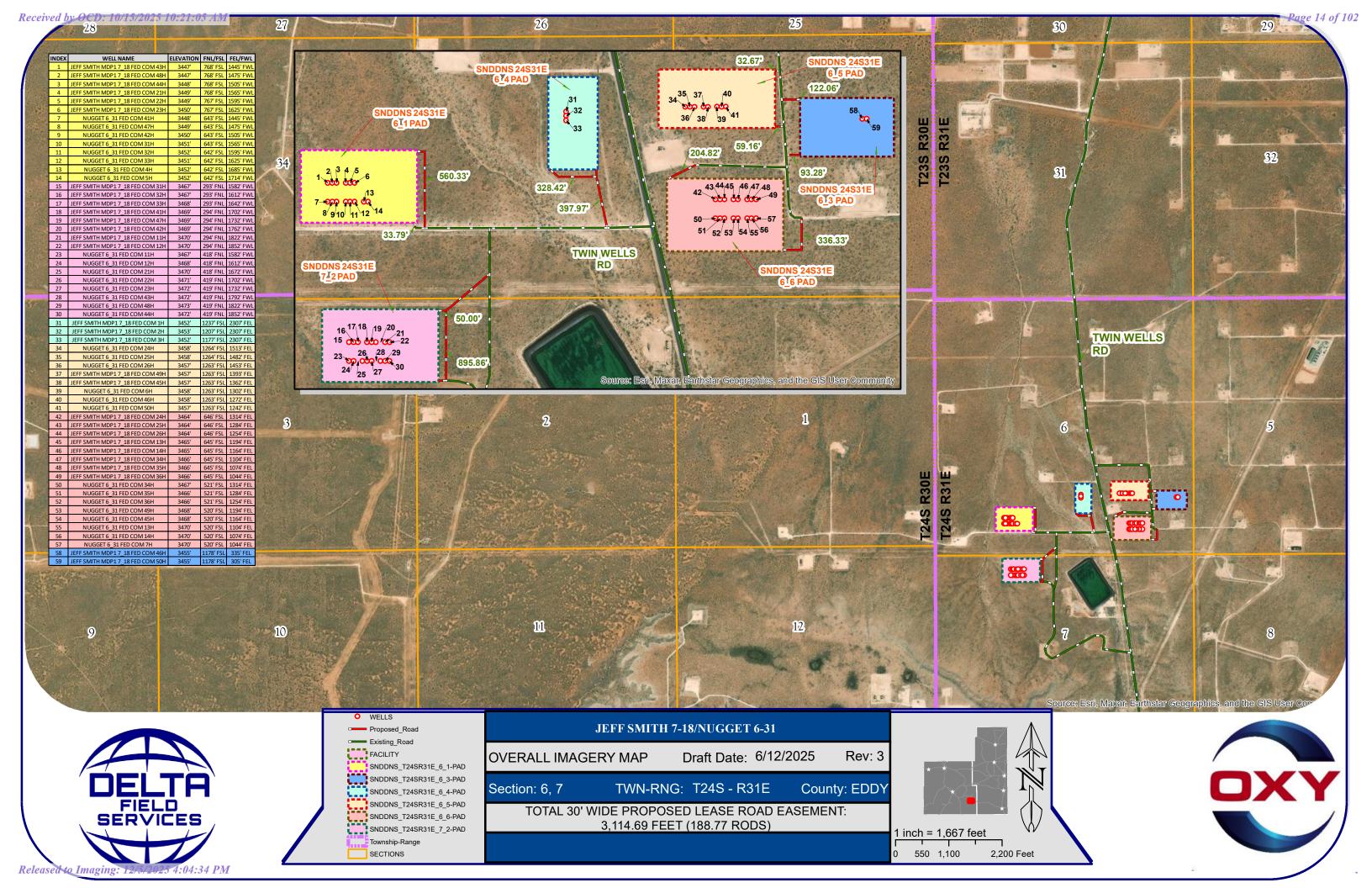
#### C. DRILLING MUD

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

#### D. WASTE MATERIAL AND FLUIDS

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

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





SNDDNS\_24S31E\_6\_1 SEC. 6 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

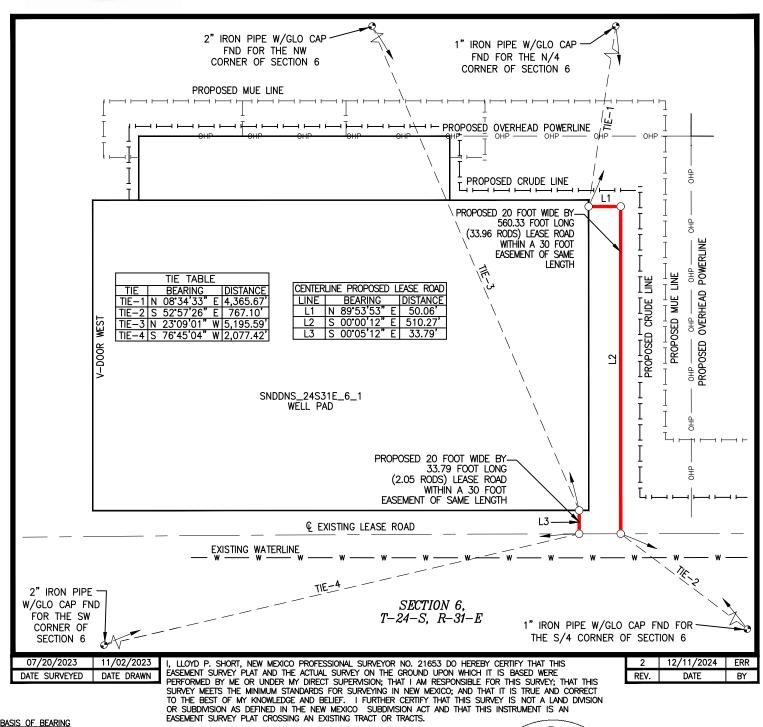


150

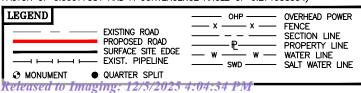
75

= 150

SCALE: 1"



BASIS OF BEARING
LASSEMENT SURVEY PLAT CROSSING AN EXISTING
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\*.)





OYD P. SHOP

2165

EM

(35)ONAL

**JANUARY 10** 

ME+Q

SURVE



SNDDNS\_24S31E\_6\_1
SEC. 6 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.

TANK BATTERY

RECLAMATION

30' TOP SOIL

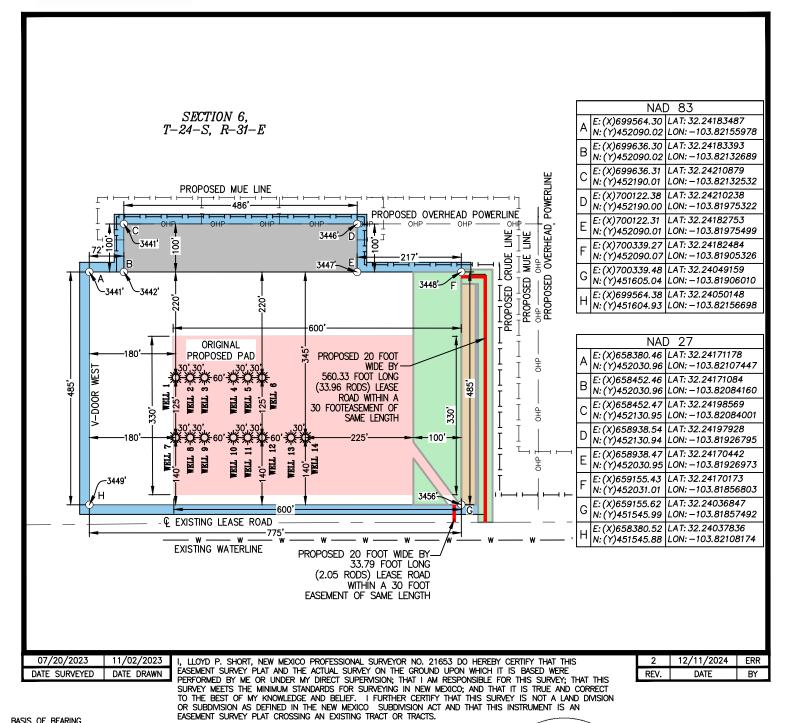
20' DISTURBANCE AREA

ORIGINAL PAD

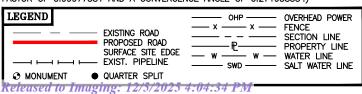
100' 0' 100' 200'

SCALE: 1" = 200'

U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M. FAA PERMIT NEEDED: NO

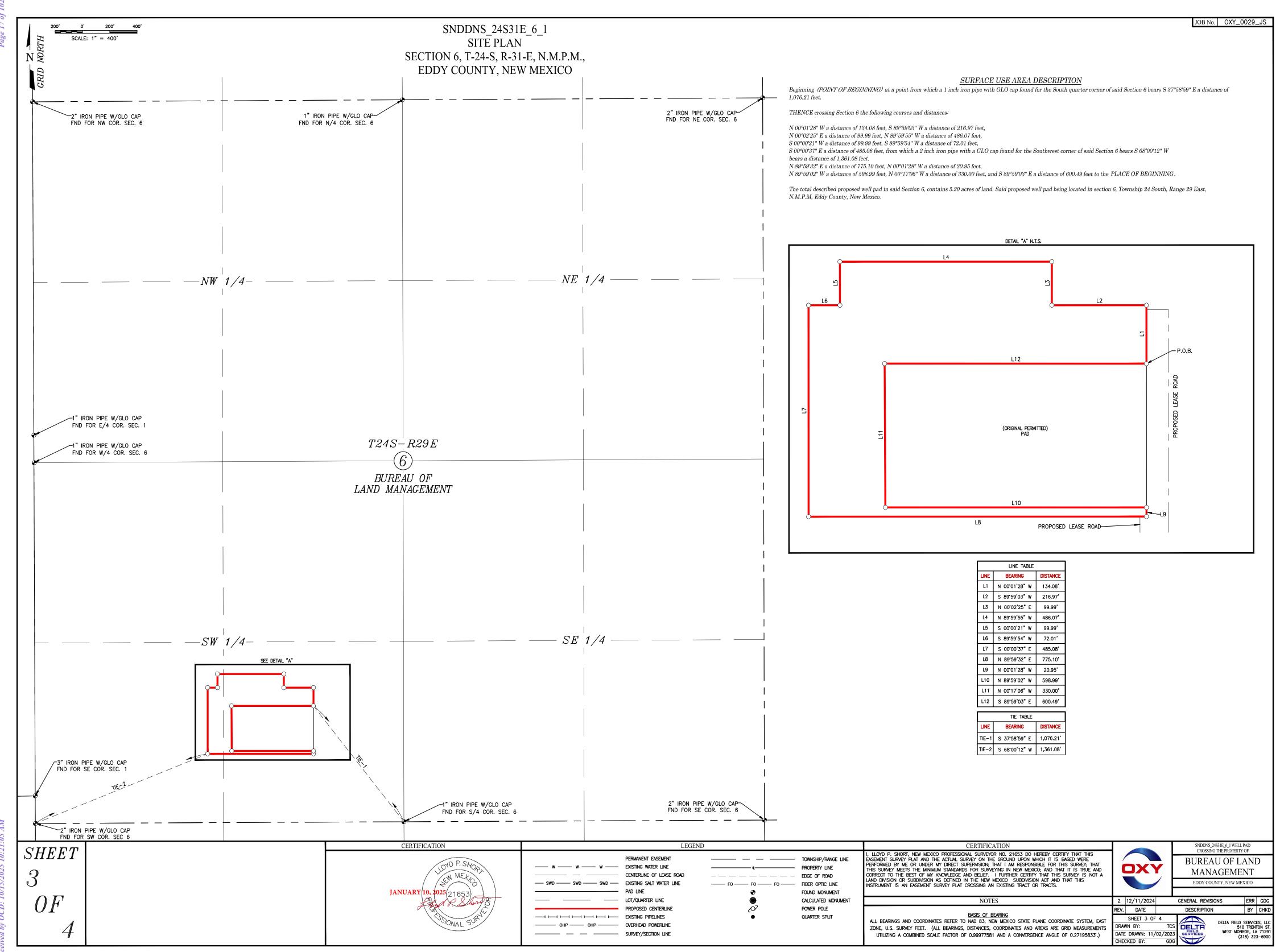


BASIS OF BEARING
LASSEMENT SURVEY PLAT CROSSING AN EXISTING
ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE
COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES,
COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE
FACTOR OF 0.99977581 AND A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





PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY\_0029\_JS
SHEET 2 OF 4





SNDDNS\_24S31E\_6\_1 SEC. 6 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 43H
OXY USA, INC.
768' FSL 1,445' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699744.40' / Y:451869.98'
LAT:32.24122768N / LON:103.82098066W
NAD 27, SPCS NM EAST
X:658560.55' / Y:451810.93'
LAT:32.24110457N / LON:103.82049540W
ELEVATION = 3447'

WELL 3
JEFF SMITH MDP1 7\_18 FED COM 44H
OXY USA, INC.
768' FSL 1,505' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699804.25' / Y:451870.02'
LAT:32.24122700N / LON:103.82078709W
NAD 27, SPCS NM EAST
X:658620.40' / Y:451810.96'
LAT:32.24110389N / LON:103.82030184W
ELEVATION = 3448'

WELL 4
JEFF SMITH MDP1 7, 18 FED COM 21H
OXY USA, INC.
768' FSL 1,565' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699864.29' / Y:451869.94'
LAT:32.24122599N / LON:103.82059290W
NAD 27, SPCS NM EAST
X:658680.44' / Y:451810.88'
LAT:32.24110288N / LON:103.82010766W
ELEVATION = 3449'

WELL 5
JEFF SMITH MDP1 7\_18 FED COM 22H
OXY USA, INC.
767' FSL 1,595' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699894.39' / Y:451869.89'
LAT:32.24122546N / LON:103.82049555W
NAD 27, SPCS NM EAST
X:658710.54' / Y:451810.83'
LAT:32.24110235N / LON:103.82001031W
ELEVATION = 3449'

WELL 6
JEFF SMITH MDP1 7, 18 FED COM 23H
OXY USA, INC.
767' FSL 1,625' FML, SECTION 6
NAD 83, SPCS NM EAST
X:699924.32' / Y:451870.02'
LAT:32.24122543N / LON:103.82039875W
NAD 27, SPCS NM EAST
X:658740.47' / Y:451810.96'
LAT:32.24110231N / LON:103.81991350W
ELEVATION = 3450'

WELL 7
NUGGET 6\_31 FED COM 41H
OXY USA, INC.
643' FSL 1,445' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699744.43' / Y:451744.92'
LAT:32.24088391N / LON:103.82098250W
NAD 27, SPCS NM EAST
X:658560.58' / Y:451685.87'
LAT:32.24076080N / LON:103.82049725W
ELEVATION = 3448'

WELL 8
NUGGET 6\_31 FED COM 47H
OXY USA, INC.
643' FSL 1,475' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699774.37' / Y:451744.98'
LAT:32.24088368N / LON:103.82088566W
NAD 27, SPCS NM EAST
X:658590.52' / Y:451685.93'
LAT:32.24076057N / LON:103.82040041W
ELEVATION = 3449'

WELL 9
NUGGET 6\_31 FED COM 42H
OXY USA, INC.
643' FSL 1,505' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699804.35' / Y:451744.91'
LAT:32.24088310N / LON:103.82078870W
NAD 27, SPCS NM EAST
X:658620.50' / Y:451685.89'
LAT:32.24075999N / LON:103.82030346W
ELEVATION = 3450'

WELL 10
NUGGET 6\_31 FED COM 31H
OXY USA, INC.
643' FSL 1,565' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699864.37' / Y:451745.04'
LAT:32.24088267N / LON:103.82059457W
NAD 27, SPCS NM EAST
X:658680.52' / Y:451685.99'
LAT:32.24075956N / LON:103.82010934W
ELEVATION = 3451'

WELL 11
NUGGET 6.31 FED COM 32H
OXY USA, INC.
642' FSL 1,595' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699894.34' / Y:451744.98'
LAT:32.24088211N / LON:103.82049764W
NAD 27, SPCS NM EAST
X:658710.49' / Y:451685.93'
LAT:32.24075900N / LON:103.82001241W
ELEVATION = 3452'

WELL 12
NUGGET 6\_31 FED COM 33H
OXY USA, INC.
642' FSL 1,625' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699924.45' / Y:451745.00'
LAT:32.24088177N / LON:103.82040026W
NAD 27, SPCS NM EAST
X:658740.60' / Y:451685.95'
LAT:32.24075866N / LON:103.81991503W
ELEVATION = 3451'

WELL 13
NUGGET 6\_31 FED COM 4H
OXY USA, INC.
642' FSL 1,685' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699984.38' / Y:451744.94'
LAT:32.2408802N / LON:103.82020643W
NAD 27, SPCS NM EAST
X:658800.53' / Y:451685.89'
LAT:32.24075771N / LON:103.81972120W
ELEVATION = 3452'

WELL 14
NUGGET 6\_31 FED COM 5H
OXY USA, INC.
642' FSL 1,714' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:700014.30' / Y:451744.94'
LAT:32.24088044N / LON:103.82010966W
NAD 27, SPCS NM EAST
X:658830.44' / Y:451685.89'
LAT:32.24075731N / LON:103.81962444W
ELEVATION = 3452'

 07/20/2023
 11/02/2023

 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	12/11/2024	ERR
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 PROPOSED ROAD SURFACE SITE EDGE SURFACE SITE EDGE EXIST. PIPELINE  MONUMENT  QUARTER SPLIT  OHP OVERHEAD POWER  X FENCE SECTION LINE PROPERTY LINE SWD SALT WATER LINE SALT WATER LINE  Released to Imaging: 12/3/2023 4.04.34 PM







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

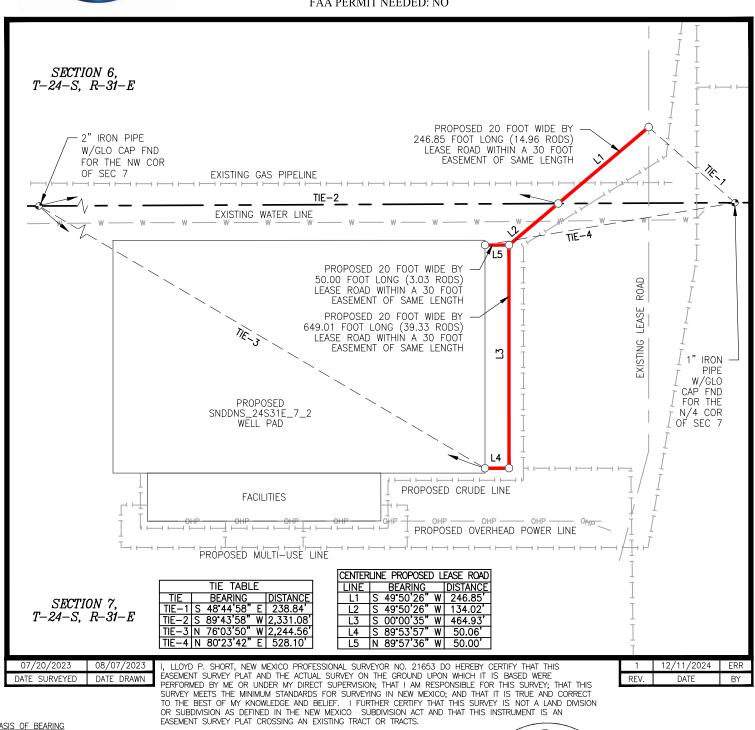


200

100'

SCALE: 1" = 200

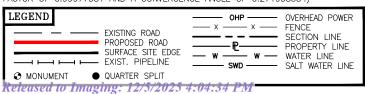
100'



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°.)

DATE DRAWN

DATE SURVEYED



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

DATE

REV.

OND P. SHOP

EN METO

2165

STONAL SURJE

DECEMBER 18,

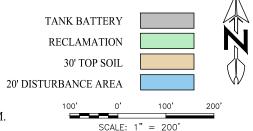


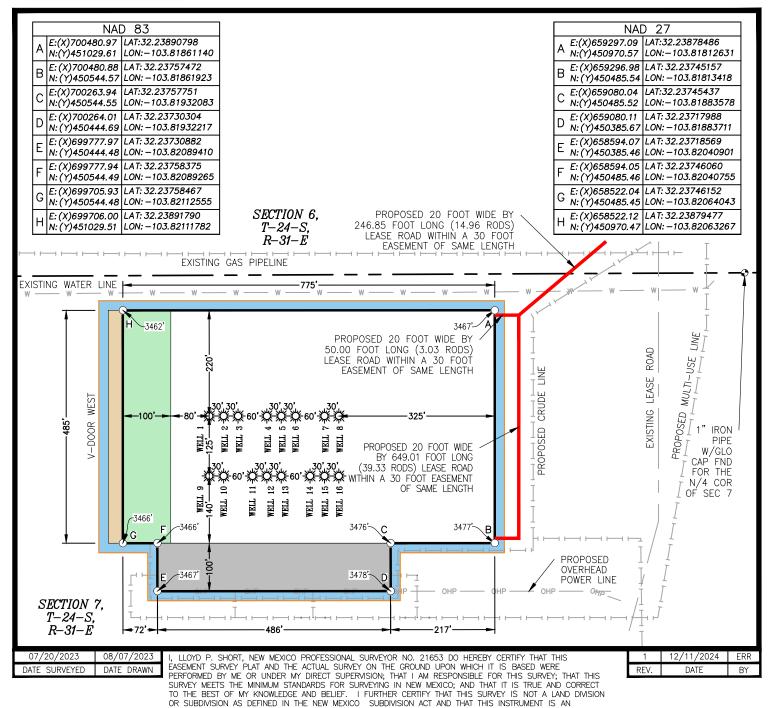
SNDDNS\_24S31E\_7\_2 SEC. 7 TWP. 24-S RGE. 31-E SURVEY: N.M.P.M.

COUNTY: EDDY

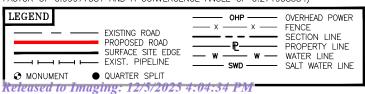
OPERATOR: OXY USA, INC. U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.

FAA PERMIT NEEDED: NO





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\*.)



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

OND P. SHOP

2165

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SONAL

**DECEMBER 18,** 

METQ

SURVE



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:103.82005410W
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:32.23830842N / 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 1,582' FW., 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 1,612' 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 1,672' 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 1,702' 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:450625.46'
LAT:32:23784244N / LON:103.81966784W
ELEVATION = 3471'

#### WELL 13 NUGGET 6\_31 FED COM 23H OXY USA, INC.

419' FNL 1,732' FW., 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.

A19' FNL 1,792' FWL, SECTION 7

NAD 83, SPCS NM EAST

X:700095.99' / Y:450684.50'

LAT:32.23796443N / LON:103.81986185W

NAD 27, SPCS NM EAST

X:658912.10' / Y:450625.47'

LAT:32.23784128N / LON:103.81937676W

ELEVATION = 3472'

#### WELL 15 NUGGET 6\_31 FED COM 48H OXY USA, INC. 419' FNL 1,822' FWL, SECTION 7

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.

1	12/11/2024	ERR
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\*.)

TROTOR OF 0.33377301 7807 7 001	WERGEROE AROLE OF 0:27 199009:)
LEGEND	DAD PE PROPERTY LINE E EDGE W W WATER LINE
♠ MONUMENT	
Released to Imaging: 12/5/	4043 4:04:34 FWI



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



SNDDNS\_24S31E\_6 4 SEC. 6 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.

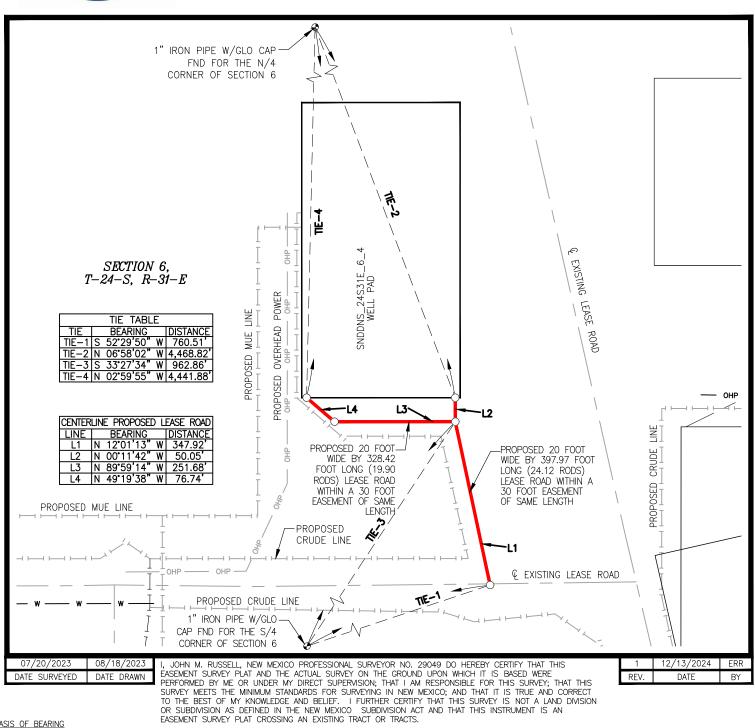
FAA PERMIT NEEDED: NO



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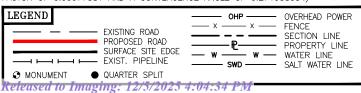
SCALE: 1" = 200

100'



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°.)







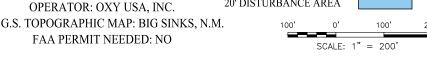


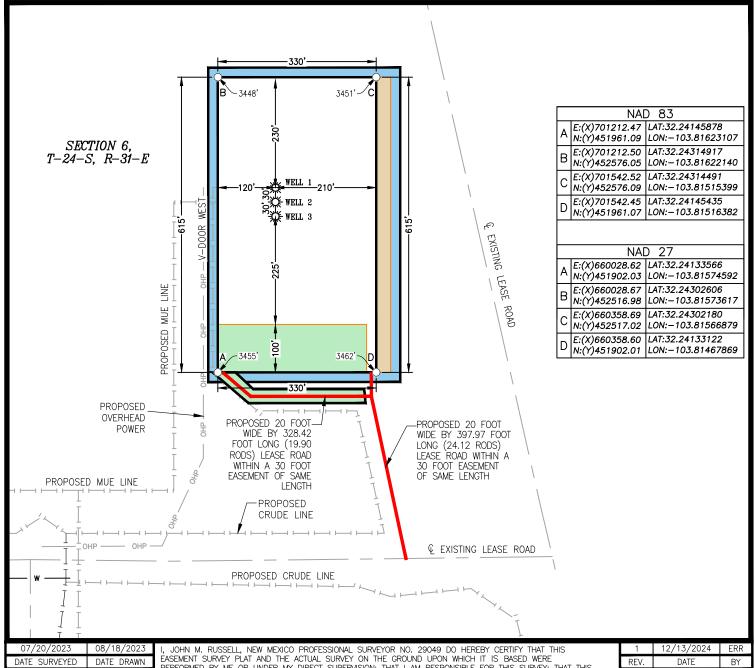
SNDDNS\_24S31E\_6\_4 SEC. 6 TWP. 24-S RGE. 31-E SURVEY: N.M.P.M.

COUNTY: EDDY

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

TANK BATTERY RECLAMATION 30' TOP SOIL 20' DISTURBANCE AREA 100' 0 200 100'

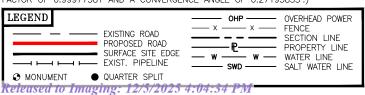




I, JOHN M. RUSSELL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 29049 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS 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.

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°.)





PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291 318-323-6900 OFFICE JOB No. OXY\_0029\_JS04 SHEET 2 OF 3



SNDDNS\_24S31E 6 4 SEC. 6 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 1H OXY USA, INC. 1,237' FSL 2,307' FEL, SECTION 6

NAD 83, SPCS NM EAST X:701332.66' / Y:452345.95' LAT:32.24251508N / LON:103.81583634W NAD 27, SPCS NM EAST X:660148.82' / Y:452286.88' LAT:32.24239197N / LON:103.81535116W ELEVATION = 3452

# WELL 2 JEFF SMITH MDP1 7\_18 FED COM 2H OXY USA, INC. 1,207' FSL 2,307' FEL, SECTION 6

NAD 83, SPCS NM EAST X:701332.47' / Y:452316.14' LAT:32.24243314N / LON:103.81583740W NAD 27, SPCS NM EAST X:660148.63' / Y:452257.07' LAT:32.24231003N / LON:103.81535220W ELEVATION = 3453'

WELL 3
JEFF SMITH MDP1 7\_18 FED COM 3H
OXY USA, INC.
1,177' FSL 2,307' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:701332.72' / Y:452286.00'
LAT:32.24235029N / LON:103.81583708W NAD 27, SPCS NM EAST X:660148.88' / Y:452226.94' LAT:32.24222718N / LON:103.81535191W ELEVATION = 3452'

07/20/2023 08/18/2023 DATE DRAWN DATE SURVEYED

I, JOHN M. RUSSELL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 29049 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 HERETS 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

1	12/13/2024	ERR
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\*.)

	w — w —	FENCE SECTION LINE PROPERTY LINE WATER LINE
♠ MONUMENT	10/5/0005 / 0/ 0/ 0/ 777	
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SNDDNS 24S31E 6 5 SEC. 6 TWP. 24-S RGE. 31-E

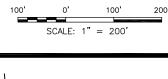
SURVEY: N.M.P.M.

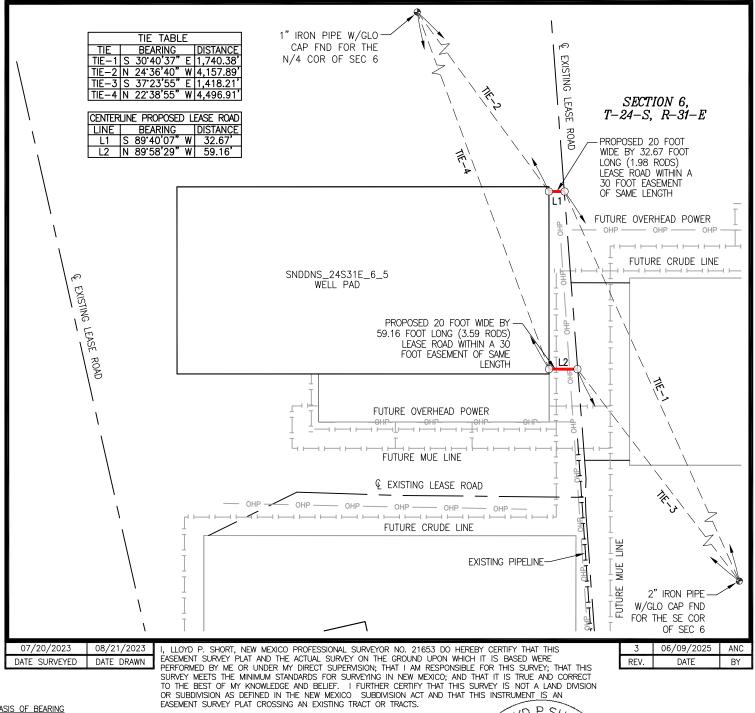
COUNTY: EDDY OPERATOR: OXY USA, INC.

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

FAA PERMIT NEEDED: NO

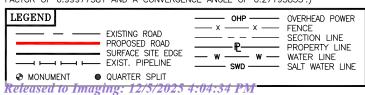






BASIS OF BEARING

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°.)



OND P. SHOP

SEN METO

21653

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**JUNE 12, 202** 

PREPARED BY: DELTA FIELD SERVICES, LLC 510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY\_0029\_JS05
SHEET 1 OF 3

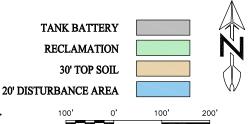


SNDDNS\_24S31E\_6\_5 SEC. 6 TWP. 24-S RGE. 31-E SURVEY: N.M.P.M.

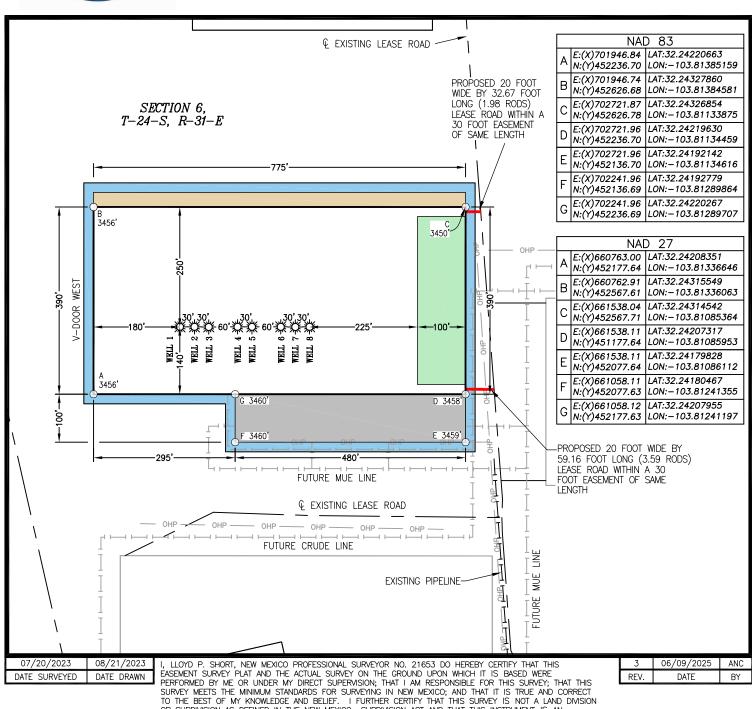
COUNTY: EDDY

OPERATOR: OXY USA, INC. U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.

**FAA PERMIT NEEDED: NO** 



SCALE: 1" = 200'



SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN

JUNE 12, 202

OND P. SHOP

SEN METO

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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\*.)

OR SUBDIVISION AS DEFINED IN THE NEW MEXICO

LEGEND

EXISTING ROAD
PROPOSED ROAD
PROPOSED ROAD
SURFACE SITE EDGE
EXIST. PIPELINE
MONUMENT
QUARTER SPLIT

Released to Imaging: 12/5/2025 4:04:34 PM



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY\_0029\_JS05
SHEET 2 OF 3



SNDDNS\_24S31E\_6\_5 SEC. 6 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 NUGGET 6\_31 FED COM 24H OXY USA, INC. 1,264' FSL 1,513' FEL, SECTION 6

1,264' FSL 1,513' FFL, SECTION 6
NAD 83, SPCS NM EAST
X:702126.76' / Y:452376.68'
LAT:32.2425890N / LON:103.81326749W
NAD 27, SPCS NM EAST
X:660942.92' / Y:452317.61'
LAT:32.24246587N / LON:103.81278236W

ELEVATION =  $3458^\circ$ 

#### WELL 2 NUGGET 6\_31 FED COM 25H OXY USA, INC. 1,264' FSL 1,482' FEL, SECTION 6

1,264' FSL 1,482' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702156.89' / Y:452376.70'
LAT:32.24258866N / LON:103.81317004W
NAD 27, SPCS NM EAST
X:660973.05' / Y:452317.63'
LAT:32.24246554N / LON:103.81268491W
ELEVATION = 3458'

#### WELL 3 NUGGET 6\_31 FED COM 26H OXY USA, INC.

1,263' FSL 1,453' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702186.81' / Y:452376.72'
LAT:32.24258832N / LON:103.81307326W
NAD 27, SPCS NM EAST
X:661002.97' / Y:452317.65'
LAT:32.24246520N / LON:103.81258814W
ELEVATION = 3457'

#### WELL 4 JEFF SMITH MDP1 7\_18 FED COM 49H OXY USA, INC.

1,263' FSL 1,393' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702246.76' / Y:452376.70'
LAT:32.24258747N / LON:103.81287935W
NAD 27, SPCS NM EAST
X:661062.92' / Y:452317.63'
LAT:32.24246434N / LON:103.81239423W
ELEVATION = 3457'

#### WELL 5 JEFF SMITH MDP1 7\_18 FED COM 45H OXY USA, INC.

1,263' FSL 1,362' FEL, SECTION 6

NAD 83, SPCS NM EAST

X:702276.85' / Y:452376.82'

LAT:32.24258740N / LON:103.81278203W

NAD 27, SPCS NM EAST

X:661093.01' / Y:452317.75'

LAT:32.24246427N / LON:103.81229691W

ELEVATION = 3457'

#### WELL 6 NUGGET 6\_31 FED COM 6H OXY USA, INC.

OXY USA, INC.

1,263' FSL 1,302' FEL, SECTION 6

NAD 83, SPCS NM EAST

X:702337.00' / Y:452376.87'

LAT:32.24258673N / LON:103.81258748W

NAD 27, SPCS NM EAST

X:661153.16' / Y:452317.80'

LAT:32.24246360N / LON:103.81210237W

ELEVATION = 3458'

## WELL 7 NUGGET 6\_31 FED COM 46H OXY USA INC

OXY USA, INC.

1,263' FSL 1,272' FEL, SECTION 6

NAD 83, SPCS NM EAST

X:702367.19' / Y:452376.76'

LAT:32.24258603N / LON:103.81248984W

NAD 27, SPCS NM EAST

X:661183.35' / Y:452317.69'

LAT:32.24246290N / LON:103.81200473W

ELEVATION = 3458'

#### WELL 8 NUGGET 6\_31 FED COM 50H OXY USA, INC.

1,263' FSL 1,242' FFL, SECTION 6

NAD 83, SPCS NM EAST

X:702397.07' / Y:452376.96'

LAT:32.24258618N / LON:103.81239319W

NAD 27, SPCS NM EAST

X:661213.23' / Y:452317.89'

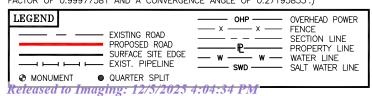
LAT:32.24246305N / LON:-103.81190808W

ELEVATION = 3457'

07/20/2023 08/21/2023 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

3 06/09/2025 ANC 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\*.)





JOYD P. SHOP

EN MEXO

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JUNE 12, 202

PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY\_0029\_JS05
SHEET 3 OF 3



SNDDNS\_24S31E\_6\_6 SEC. 6 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.

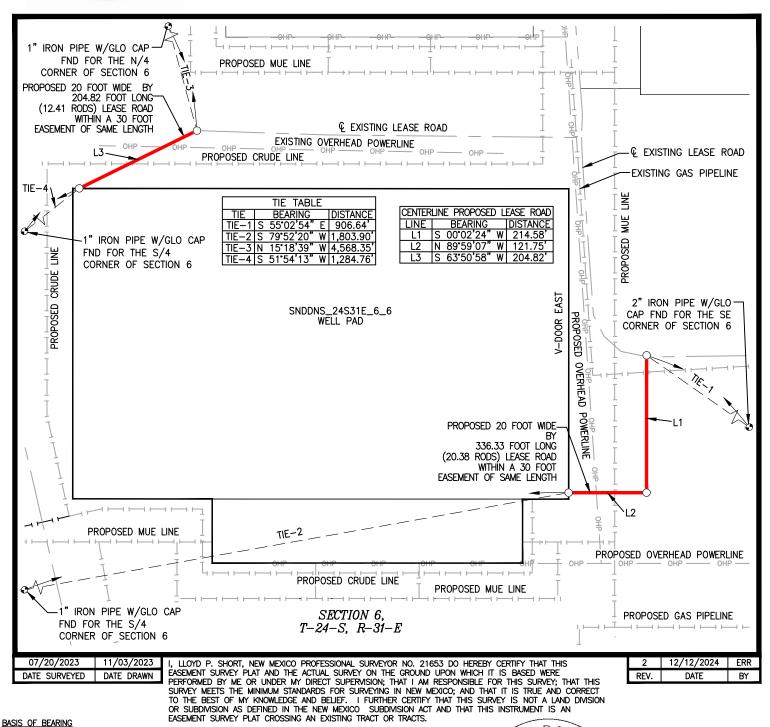
FAA PERMIT NEEDED: NO



150

75

SCALE: 1" = 150



LEGEND OVERHEAD POWER **FENCE** FXISTING ROAD SECTION LINE PROPOSED ROAD PROPERTY LINE P-SURFACE SITE EDGE EXIST. PIPELINE WATER LINE SALT WATER LINE SWD ♠ MONUMENT QUARTER SPLIT Released to Imaging: 12/5/2025 4:04:34 PM

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°.)

BASIS OF BEARING

PREPARED BY: DELTA FIELD SERVICES, LLC 510 TRENTON ST. WEST MONROE, LA 71291

OYD P. SHOP

SEN MEXO

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2025

**JANUARY** 

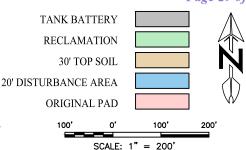
318-323-6900 OFFICE JOB No. OXY\_0029\_JS02 SHEET 1 OF 4

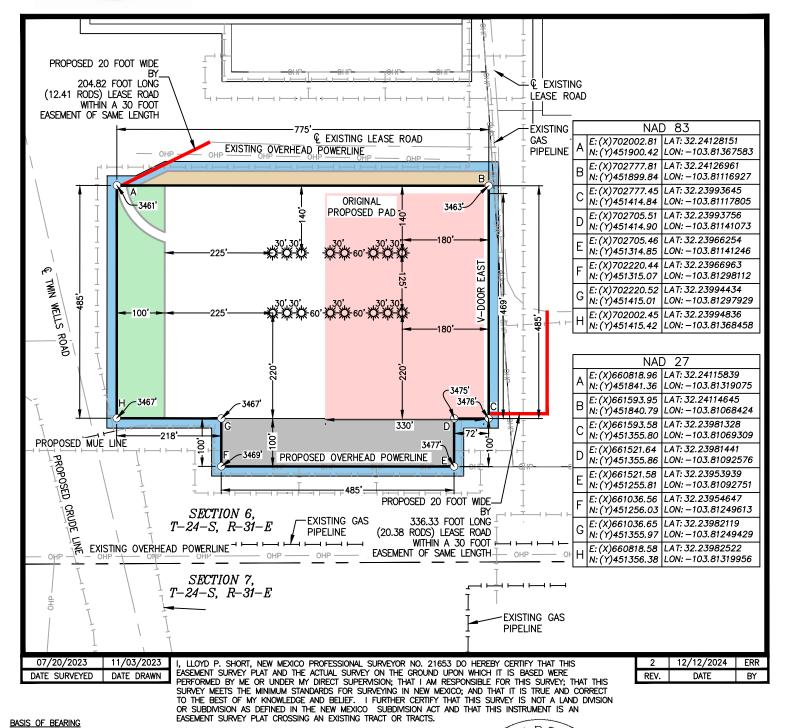


SNDDNS\_24S31E\_6\_6 SEC. 6 TWP. 24-S RGE. 31-E SURVEY: N.M.P.M.

COUNTY: EDDY OPERATOR: OXY USA, INC.

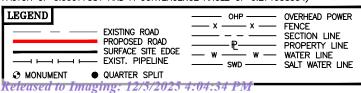
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M. FAA PERMIT NEEDED: NO





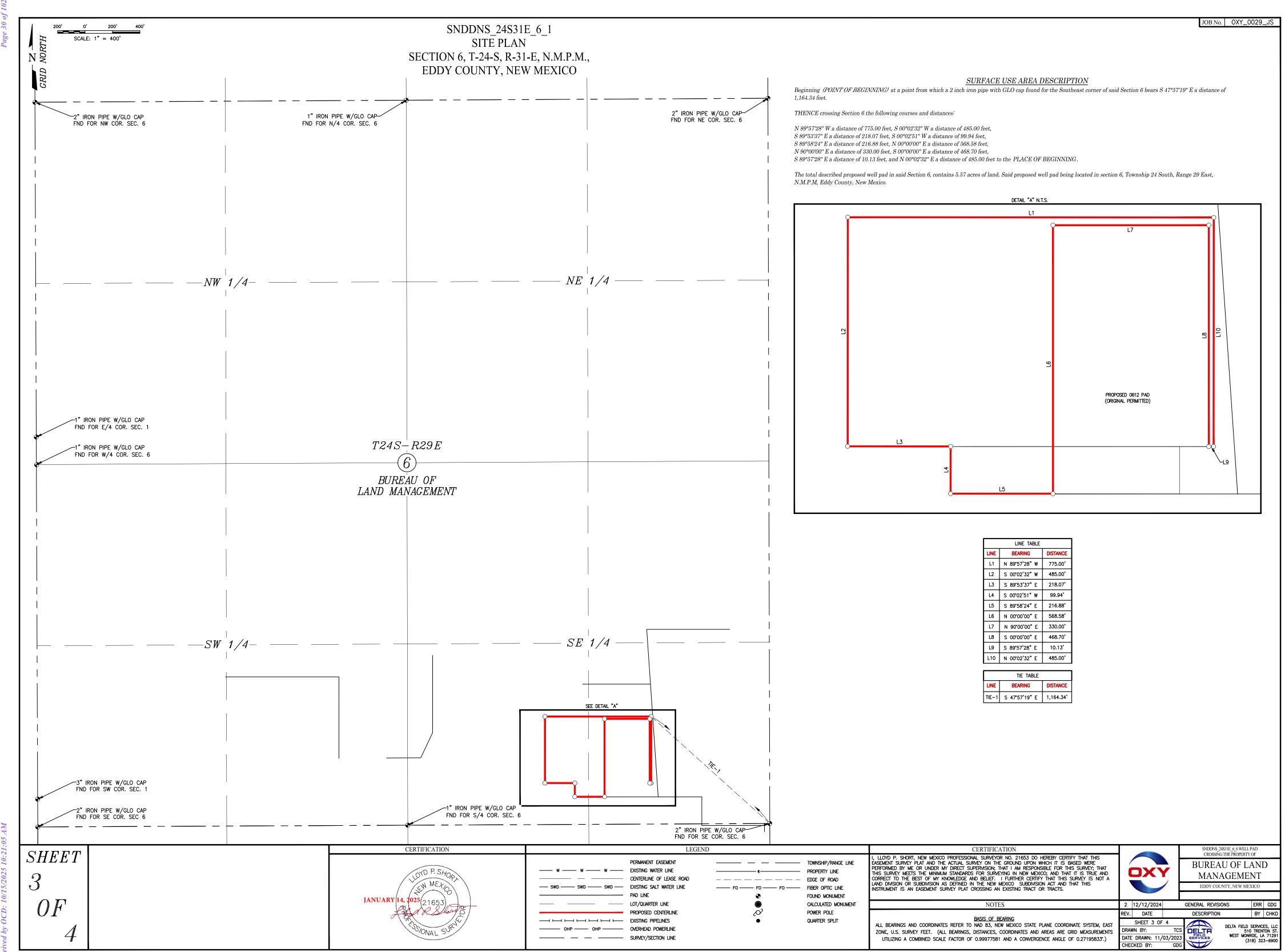
BASIS OF BEARING

LASSEMENI SURVEY PLAI CROSSING AN EXISTING
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".)











SNDDNS\_24S31E\_6\_6 SEC. 6 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 24H
OXY USA, INC.
646' FSL 1,314' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702327.15' / Y:451759.85'
LAT:32.24089081N / LON:103.81262902W
NAD 27, SPCS NM EAST
X:661143.29' / Y:451700.80'
LAT:32.24076767N / LON:103.81214398W
ELEVATION = 3464'

WELL 2
JEFF SMITH MDP1 7\_18 FED COM 25H
OXY USA, INC.
646' FSL 1,284' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702357.12' / Y:451759.87'
LAT:32.24089046N / LON:103.81253208W
NAD 27, SPCS NM EAST
X:661173.26' / Y:451700.82'
LAT:32.24076733N / LON:103.81204705W
ELEVATION = 3464'

WELL 3
JEFF SMITH MDP1 7\_18 FED COM 26H
OXY USA, INC.
646' FSL 1,254' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702387.26' / Y:451759.88'
LAT:32.24089009N / LON:103.81243460W
NAD 27, SPCS NM EAST
X:661203.40' / Y:451700.83'
LAT:32.24076695N / LON:103.81194958W
ELEVATION = 3464'

WELL 4
JEFF SMITH MDP1 7, 18 FED COM 13H
OYY USA, INC.
645' FSL 1,194' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702447.05' / Y:451759.92'
LAT:32.24088940N / LON:103.81224122W
NAD 27, SPCS NM EAST
X:661263.19' / Y:451700.86'
LAT:32.24076625N / LON:103.81175620W
ELEVATION = 3465'

WELL 5

JEFF SMITH MDP1 7\_18 FED COM 14H
OXY USA, INC.
645' FSL 1,164' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702477.16' / Y:451759.86'

LAT:32.2408883N / LON:103.81214384W
NAD 27, SPCS NM EAST
X:661293.30' / Y:451700.81'

LAT:32.24076569N / LON:103.81165882W
ELEVATION = 3465'

WELL 6
JEFF SMITH MDP1 7\_18 FED COM 34H
OXY USA, INC.
645' FSL 1,104' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702537.22' / Y:451759.74'
LAT:32.24088770N / LON:103.81194959W
NAD 27, SPCS NM EAST
X:661353.36' / Y:451700.69'
LAT:32.24076456N / LON:103.81146458W
ELEVATION = 3466'

WELL 7

JEFF SMITH MIDP1 7\_18 FED COM 35H
OXY USA, INC.

645' FSL 1,074' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702567.22' / Y:451759.69'

LAT:32.24088717N / LON:103.81185256W
NAD 27, SPCS NM EAST
X:661383.36' / Y:451700.64'

LAT:32.24076402N / LON:103.81136755W
ELEVATION = 3466'

WELL 8
JEFF SMITH MDP1 7\_18 FED COM 36H
OXY USA, INC.
645' FSL 1,044' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702597.20' / Y:451759.84'
LAT:32.24088718N / LON:103.81175560W
NAD 27, SPCS NM EAST
X:661413.34' / Y:451700.79'
LAT:32.24076403N / LON:103.81127059W
ELEVATION = 3466'

WELL 9

NUGGET 6\_31 FED COM 34H
OXY USA, INC.

521' FSL 1,314' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702327.50' / Y:451634.94'

LAT:32.24054745N / LON:103.81262984W
NAD 27, SPCS NM EAST
X:661143.63' / Y:451575.89'

LAT:32.24042431N / LON:103.81214483W
ELEVATION = 3467'

NUGGET 6\_31 FED COM 35H
OXY USA, INC.
521' FSL 1,284' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702357.38' / Y:451634.88'
LAT:32.24054689N / LON:103.81253320W
NAD 27, SPCS NM EAST
X:661173.52' / Y:451575.83'
LAT:32.24042374N / LON:103.81204819W
ELEVATION = 3466'

WELL 11
NUGGET 6\_31 FED COM 36H
OXY USA, INC.
521' FSL 1,254' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702387.38' / Y:451634.91'
LAT:32.24054657N / LON:103.81243617W
NAD 27, SPCS NM EAST
X:661203.52' / Y:451575.86'
LAT:32.24042343N / LON:103.81195116W
ELEVATION = 3466'

WELL 12
NUGGET 6\_31 FED COM 49H
OXY USA, INC.
520' FSL 1,194' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702447.40' / Y:451634.92'
LAT:32.24054580N / LON:103.81224205W
NAD 27, SPCS NM EAST
X:661263.53' / Y:451575.87'
LAT:32.24042265N / LON:103.81175705W
ELEVATION = 3468'

WELL 13
NUGGET 6\_31 FED COM 45H
OXY USA, INC.
520' FSL 1,164' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702477.36' / Y:451634.92'
LAT:32.24054540N / LON:103.81214515W
NAD 27, SPCS NM EAST
X:661293.50' / Y:451575.87'
LAT:32.24042225N / LON:103.81166015W
ELEVATION = 3468'

WELL 14
NUGGET 6\_31 FED COM 13H
OXY USA, INC.
520' FSL 1,104' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702537.38' / Y:451634.87'
LAT:32.24054446N / LON:103.81195103W
NAD 27, SPCS NM EAST
X:661353.51' / Y:451575.82'
LAT:32.24042131N / LON:103.81146604W
ELEVATION = 3470'

WELL 15
NUGGET 6\_31 FED COM 14H
OXY USA, INC.
520' FSL 1,074' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702567.37' / Y:451634.90'
LAT:32.24054414N / LON:103.81185404W
NAD 27, SPCS NM EAST
X:66138.51' / Y:451575.85'
LAT:32.24042100N / LON:103.81136904W
ELEVATION = 3470'

WELL 16
NUGGET 6\_31 FED COM 7H
OXY USA, INC.
520' FSL 1,044' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702597.39' / Y:451634.84'
LAT:32.24054358N / LON:103.81175695W
NAD 27, SPCS NM EAST
X:661413.53' / Y:451575.79'
LAT:32.24042043N / LON:103.81127195W
ELEVATION = 3470'

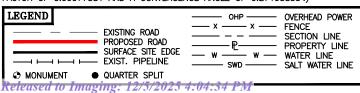
07/20/2023	11/03/2023
DATE SURVEYED	DATE DRAWN

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	12/12/2024	ERR
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\*.)







PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY\_0029\_JS02
SHEET 4 OF 4



SNDDNS 24S31E 6 3 SEC. 6 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



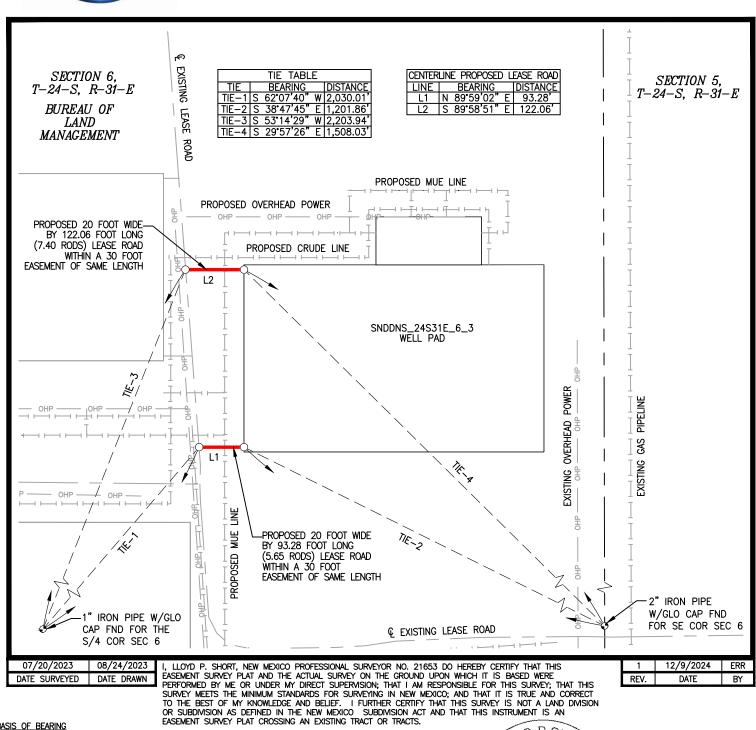
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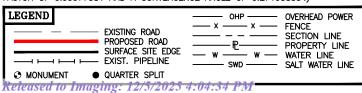
= 200

SCALE: 1"

100"



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DATE

BY

REV.

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SONAL SUR

JANUARY 02,

PREPARED BY: DELTA FIELD SERVICES, LLC 510 TRENTON ST. WEST MONROE, LA 71291 318-323-6900 OFFICE JOB No. OXY\_0029\_JS03 SHEET 1 OF 3



SNDDNS\_24S31E\_6\_3 SEC. 6 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.

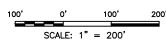
FAA PERMIT NEEDED: NO

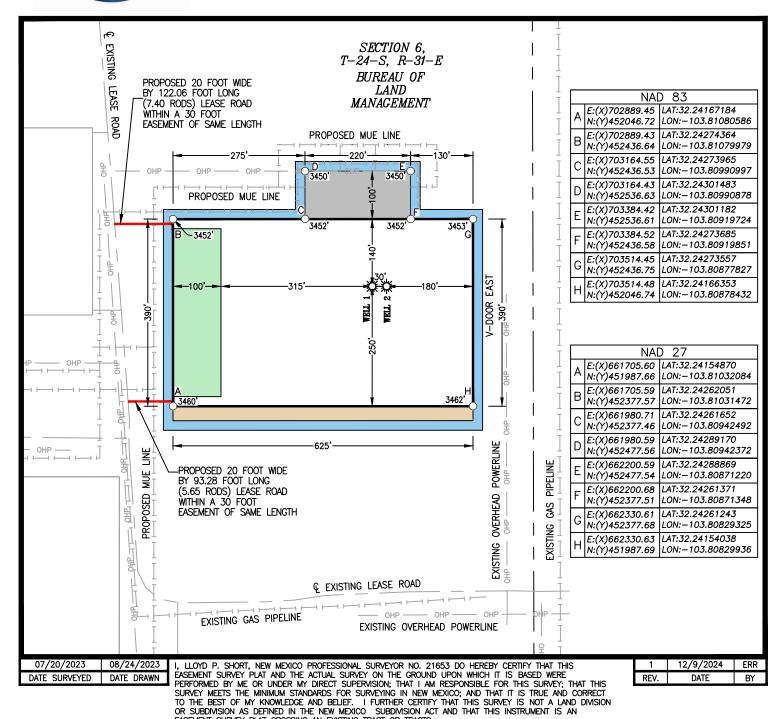


30' TOP SOIL



20' DISTURBANCE AREA





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EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

	· · · · · · · · · · · · · · · · · · ·
LEGEND  EXISTING ROAD PROPOSED ROAD SURFACE SITE EDGE EXIST. PIPELINE	
Released to Imaging: 12/5/2025 4:04:34 PM	



OYD P. SHOP

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JANUARY 02,

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PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY\_0029\_JS03
SHEET 2 OF 3



SNDDNS\_24S31E\_6\_3 SEC. 6 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 46H
OXY USA, INC.

1,178' FSL 335' FEL, SECTION 6 NAD 83, SPCS NM EAST X:703304.41' / Y:452296.59' LAT:32.24235313N / LON:103.80945981W NAD 27, SPCS NM EAST X:662120.56' / Y:452237.52' LAT:32.24222998N / LON:103.80897480W

ELEVATION = 3455'

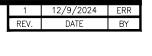
JEFF SMITH MDP1 7\_18 FED COM 50H OXY USA, INC.

1,178' FSL 305' FEL, SECTION 6 NAD 83, SPCS NM EAST X:703334.42' / Y:4522296.58' LAT:32.24235270N / LON:103.80936275W NAD 27, SPCS NM EAST X:662150.58' / Y:452237.51' LAT:32.2422955N / LON:103.80887773W ELEVATION = 3455'

07/20/2023 08/24/2023 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.

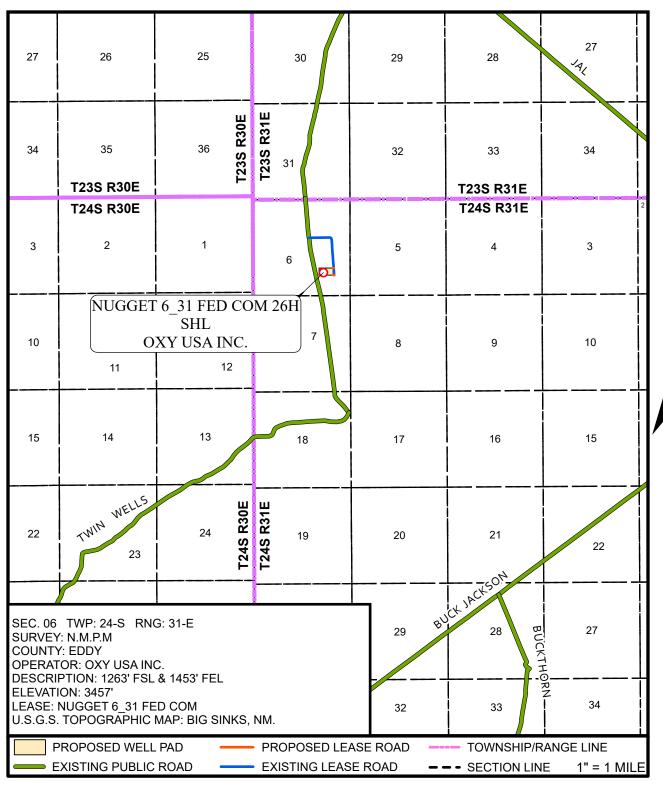
BASIS OF BEARING ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833\*.)







## VICINITY MAP



APPROXIMATELY 16.7 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 APPROXIMATELY 2.3 MILES TO STATE HWY 31 / POTASH MINES ROAD. HEAD EAST ON STATE HWY 31 / POTASH MINES ROAD FOR APPROXIMATELY 7.7 MILES TO STATE HWY 128 / JAL HWY. HEAD EAST ON STATE HWY 128 / JAL HWY FOR APPROXIMATELY 12.8 MILES TO TWIN WELLS ROAD ON SOUTH SIDE OF HWY. HEAD SOUTH ON TWIN WELLS ROAD FOR APPROXIMATELY 3.7 MILES TO AN EXISTING LEASE ROAD ON THE EAST SIDE OF ROAD. HEAD EAST ON SAID LEASE ROAD FOR APPROXIMATELY 0.6 MILES TO THE NORTHEAST PAD ENTRANCE ON WEST SIDE OF ROAD



PREPARED BY:
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510 TRENTON STREET,
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY\_0029\_JS05\_15461



SNDDNS 24S31E 6 5 SEC. 6 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

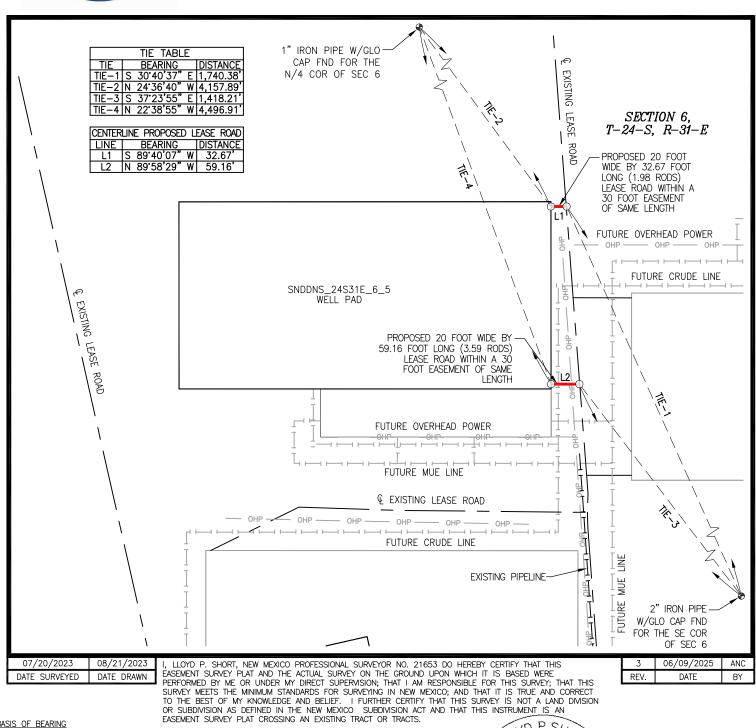


200

100'

SCALE: 1" = 200'

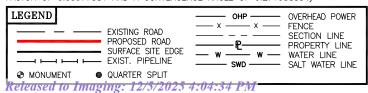
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DATE DRAWN

DATE SURVEYED



PREPARED BY: DELTA FIELD SERVICES, LLC

DATE

REV.

OND P. SHOP

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**JUNE 12, 202** 

510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY\_0029\_JS05
SHEET 1 OF 3



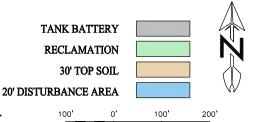
# SITE PLAN

SNDDNS\_24S31E\_6\_5 SEC. 6 TWP. 24-S RGE. 31-E SURVEY: N.M.P.M.

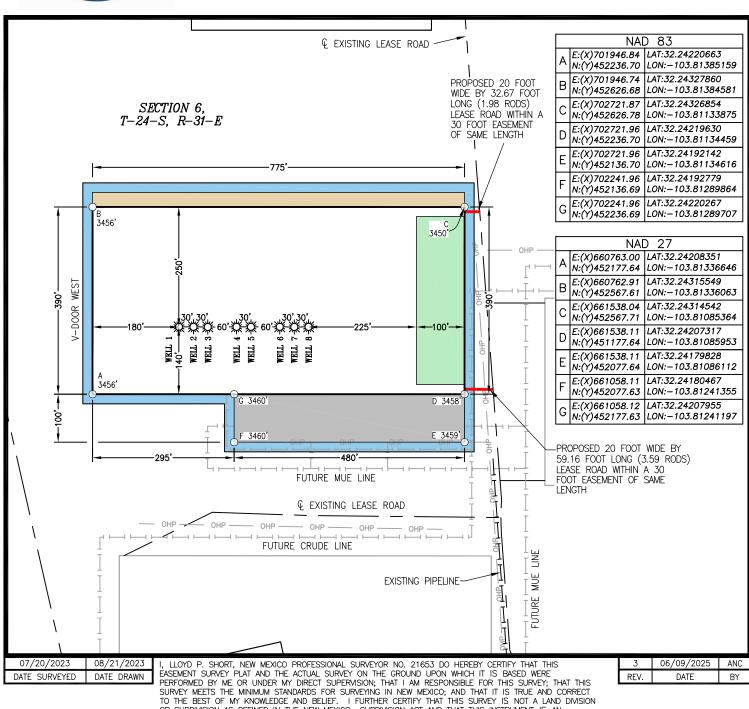
COUNTY: EDDY

OPERATOR: OXY USA, INC. U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.

**FAA PERMIT NEEDED: NO** 



SCALE: 1" = 200



SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN

JUNE 12, 202

OND P. SHOP

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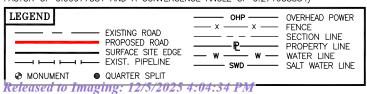
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BASIS OF BEARING
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FACTOR OF 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833\*.)

OR SUBDIVISION AS DEFINED IN THE NEW MEXICO



PREPARED BY:
DELTA FIELD SERVICES, LLC

510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY\_0029\_JS05
SHEET 2 OF 3



# SITE PLAN

SNDDNS\_24S31E\_6\_5 SEC. 6 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 NUGGET 6\_31 FED COM 24H OXY USA, INC. 1,264' FSL 1,513' FEL, SECTION 6

1,264' FSL 1,513' FFL, SECTION 6
NAD 83, SPCS NM EAST
X:702126.76' / Y:452376.68'
LAT:32.24258900N / LON:103.81326749W
NAD 27, SPCS NM EAST
X:660942.92' / Y:452317.61'
LAT:32.24246587N / LON:103.81278236W

ELEVATION =  $3458^\circ$ 

#### WELL 2 NUGGET 6\_31 FED COM 25H OXY USA, INC. 1,264' FSL 1,482' FEL, SECTION 6

1,264' FSL 1,482' FEL, SECTION 6

NAD 83, SPCS NM EAST

X:702156.89' / Y:452376.70'

LAT:32.24258866N / LON:103.81317004W

NAD 27, SPCS NM EAST

X:660973.05' / Y:452317.63'

LAT:32.24246554N / LON:103.81268491W

ELEVATION = 3458'

#### WELL 3 NUGGET 6\_31 FED COM 26H OXY USA, INC.

1,263' FSL 1,453' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702186.81' / Y:452376.72'
LAT:32.24258832N / LON:103.81307326W
NAD 27, SPCS NM EAST
X:661002.97' / Y:452317.65'
LAT:32.24246520N / LON:103.81258814W
ELEVATION = 3457'

#### WELL 4 JEFF SMITH MDP1 7\_18 FED COM 49H OXY USA, INC.

1,263' FSL 1,393' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702246.76' / Y:452376.70'
LAT:32.24258747N / LON:103.81287935W
NAD 27, SPCS NM EAST
X:661062.92' / Y:452317.63'
LAT:32.24246434N / LON:103.81239423W
ELEVATION = 3457'

#### WELL 5 JEFF SMITH MDP1 7\_18 FED COM 45H OXY USA, INC.

1,263' FSL 1,362' FEL, SECTION 6

NAD 83, SPCS NM EAST

X:702276.85' / Y:452376.82'

LAT:32.24258740N / LON:103.81278203W

NAD 27, SPCS NM EAST

X:661093.01' / Y:452317.75'

LAT:32.24246427N / LON:103.81229691W

ELEVATION = 3457'

#### WELL 6 NUGGET 6\_31 FED COM 6H OXY USA, INC.

OXY USA, INC.

1,263' FSL 1,302' FEL, SECTION 6

ND 83, SPCS NM EAST

X:702337.00' / Y:452376.87'

LAT:32.24258673N / LON:103.81258748W

NAD 27, SPCS NM EAST

X:661153.16' / Y:452317.80'

LAT:32.24246360N / LON:103.81210237W

ELEVATION = 3458'

#### WELL 7 NUGGET 6\_31 FED COM 46H OXY USA. INC.

OXY USA, INC.

1,263' FSL 1,272' FEL, SECTION 6

NAD 83, SPCS NM EAST

X:702367.19' / Y:452376.76'

LAT:32.24258603N / LON:103.81248984W

NAD 27, SPCS NM EAST

X:661183.35' / Y:452317.69'

LAT:32.24246290N / LON:103.81200473W

ELEVATION = 3458'

#### WELL 8 NUGGET 6\_31 FED COM 50H OXY USA, INC.

1,263' FSL 1,242' FFL, SECTION 6

NAD 83, SPCS NM EAST

X:702397.07' / Y:452376.96'

LAT:32.24258618N / LON:103.81239319W

NAD 27, SPCS NM EAST

X:661213.23' / Y:452317.89'

LAT:32.24246305N / LON:-103.81190808W

ELEVATION = 3457'

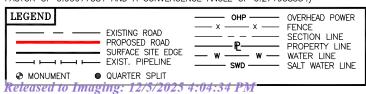
07/20/2023 08/21/2023 DATE SURVEYED DATE DRAWN I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS 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

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3 06/09/2025 ANC REV. DATE BY

BASIS OF BEARING

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FACTOR OF 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)





JOYD P. SHOP

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JUNE 12, 202

PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY\_0029\_JS05
SHEET 3 OF 3

# Oxy USA Inc. - NUGGET 6\_31 FED COM 26H Drill Plan

### 1. Geologic Formations

TVD of Target (ft):	8667	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	19193	Deepest Expected Fresh Water (ft):	572

#### **Delaware Basin**

Formation	MD-RKB (ft)	TVD-RKB (ft)	<b>Expected Fluids</b>
Rustler	572	572	
Salado	946	946	Salt
Marker Bed 126	2000	2000	Salt
Castile	2829	2819	Salt
Delaware	4289	4209	Oil/Gas/Brine
Bell Canyon	4312	4231	Oil/Gas/Brine
Cherry Canyon	5301	5171	Oil/Gas/Brine
Brushy Canyon	6601	6408	Losses
Bone Spring	8346	8068	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

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

### 2. Casing Program

		V	1D	T۱	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	14.75	0	886	0	886	10.75	45.5	J-55	втс
Intermediate	9.875	0	8163	0	7889	7.625	26.4	L-80 HC	BTC
Production	6.75	0	19193	0	8667	5.5	20	P-110	DWC/C-HT-IS

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

Occidental - Permian New Mexico

NUGGET 6\_31 FED COM 26H

All Casing SF Values will meet or						
exceed those below						
SF	SF	Body SE	Joint SF			
0.	٥.	Douy 3.	301116 31			
Collapse	<u> </u>	_	Tension			

#### **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.					
Is premium or uncommon casing planned? If yes attach casing specification sheet.					
Does the above casing design meet or exceed BLM's minimum standards?	Y				
If not provide justification (loading assumptions, casing design criteria).	1				
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching					
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 <sup>rd</sup> string cement tied back					
500' into previous casing?					
Is well located in R-111-Q and SOPA?					
If yes, are the first three strings cemented to surface?					
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?					
Is well located in high Cave/Karst?	N				
If yes, are there two strings cemented to surface?					
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?					
Is well located in critical Cave/Karst?	N				
If yes, are there three strings cemented to surface?					

Created On: 6/17/2025 at 2:08 PM

Occidental - Permian New Mexico NUGGET 6\_31 FED COM 26H

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	741	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	176	1.68	13.2	5%	6,851	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1058	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	653	1.84	13.3	25%	7,663	Circulate	Class C+Ret.

#### **Offline Cementing Request**

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

#### **Bradenhead CBL Request**

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

Occidental - Permian New Mexico NUGGET 6\_31 FED COM 26H

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	<b>✓</b>	Tested to:	Deepest TVD Depth (ft) per Section:																						
		5M		Annular	✓	70% of working pressure																							
				Blind Ram	✓																								
9.875" Hole	13-5/8"	<sup>78</sup> " 5M	Pipe Ram			250 psi / 5000 psi	7889																						
			Double Ram 250 psi /		230 psi / 3000 psi																								
			Other*																										
		5M		Annular	✓	70% of working pressure																							
	13-5/8"																									Blind Ram			
6.75" Hole		5M		Pipe Ram		250 psi / 5000 psi	8667																						
		JIVI		Double Ram	<b>✓</b>	200 psi / 3000 psi																							
			Other*																										

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.

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

Occidental - Permian New Mexico NUGGET 6\_31 FED COM 26H

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.

NUGGET 6\_31 FED COM 26H

Occidental - Permian New Mexico

#### 5. Mud Program

Castian	Depth -	MD	Depth -	TVD	Tema	Weight	Viscosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	(ppg) Viscosity	
Surface	0	886	0	886	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	886	8163	886	7889	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	8163	19193	7889	8667	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	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	F V 1/1VID TOLCO/ VISUAL IVIOLITIES

6. Logging and Testing Procedures

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

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

Occidental - Permian New Mexico NUGGET 6 31 FED COM 26H

#### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4327 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 zonal

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to

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

### 8. Other facets of operation

es
28
es
_

Total Estimated Cuttings Volume: 1365 bbls

PRD NM DIRECTIONAL PLANS (NAD 1983) Nugget 6\_31 Nugget 6\_31 Fed Com 26H

**ORIG HOLE** 

**Plan: Permitting Plan** 

# **Standard Planning Report**

17 June, 2025

#### Planning Report

Database: Company:

HOPSPP **ENGINEERING DESIGNS** 

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site:

Nugget 6\_31

Well:

Wellbore: Design:

Map Zone:

Nugget 6\_31 Fed Com 26H

**ORIG HOLE** Permitting Plan Local Co-ordinate Reference:

**TVD Reference:** 

MD Reference: North Reference:

**Survey Calculation Method:** 

Well Nugget 6\_31 Fed Com 26H

RKB=25' @ 3482.00ft RKB=25' @ 3482.00ft

Grid

Minimum Curvature

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

Map System: Geo Datum:

US State Plane 1983

North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Using geodetic scale factor

Site Nugget 6\_31

Site Position: From:

**Position Uncertainty** 

Мар

Northing: 450,899.01 usft Easting: 698,758.94 usft

Latitude: Longitude:

32.238572 -103.824183

Slot Radius: **Position Uncertainty:** 0.89 ft 13.200 in

Well Nugget 6\_31 Fed Com 26H

Well Position +N/-S +E/-W

0.00 ft 0.00 ft 2.00 ft Northing: Easting: Wellhead Elevation: 452.376.72 usf 702,186.81 usf ft

Latitude: Longitude: **Ground Level:** 

32.242588 -103.813074 3,457.00 ft

**Grid Convergence:** 0.28°

Wellbore **ORIG HOLE** 

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	4/2/2024	6.35	59.78	47,407.10000000

Design Permitting Plan

Audit Notes:

Version: Vertical Section:

Phase: Depth From (TVD)

(ft)

0.00

**PROTOTYPE** +N/-S

(ft)

0.00

Tie On Depth: +E/-W

(ft)

0.00

0.00 Direction

(°) 6.86

**Plan Survey Tool Program** Date 6/17/2025

Depth From Depth To

0.00

(ft) (ft)

Survey (Wellbore) 19,619.90 Permitting Plan (ORIG HOLE)

**Tool Name** B005Mc\_MWD+HRGM+SA

Remarks

MWD+HRGM+Sag+MSA

Plan Sections	,									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,050.00	0.00	0.00	2,050.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,950.00	18.00	150.03	2,935.27	-121.46	70.04	2.00	2.00	0.00	150.03	
8,255.44	18.00	150.03	7,981.04	-1,541.71	889.06	0.00	0.00	0.00	0.00	
8,806.25	45.00	32.77	8,476.47	-1,444.04	1,049.53	10.00	4.90	-21.29	-129.95	
9,344.90	90.27	359.77	8,680.93	-979.89	1,159.76	10.00	8.40	-6.13	-42.41	
19,619.90	90.27	359.77	8,632.88	9,294.91	1,118.00	0.00	0.00	0.00	0.00 F	BHL (Nugget 6_31

#### **Planning Report**

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Nugget 6\_31

Well: Nugget 6\_31 Fed Com 26H

Wellbore: ORIG HOLE

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Nugget 6\_31 Fed Com 26H

RKB=25' @ 3482.00ft RKB=25' @ 3482.00ft

Grid

ŧ	Permitting Pia	all							
ed 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
65.05	0.00	0.00	65.05	0.00	0.00	0.00	0.00	0.00	0.00
PPP-1 Cros									
90.27	0.00 <b>s - PPP-3 Cros</b>	0.00	90.27	0.00	0.00	0.00	0.00	0.00	0.00
100.00	s - PPP-3 Cros 0.00	0.00	ss 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 1,600.00	0.00 0.00	0.00 0.00	1,500.00 1,600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
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 1,900.00	0.00 0.00	0.00 0.00	1,800.00 1,900.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,050.00	0.00	0.00	2,050.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	1.00	150.03	2,100.00	-0.38	0.22	-0.35	2.00	2.00	0.00
2,200.00	3.00	150.03	2,199.93	-3.40	1.96	-3.14	2.00	2.00	0.00
2,300.00	5.00	150.03	2,299.68	-9.44	5.45	-8.73	2.00	2.00	0.00
2,400.00	7.00	150.03	2,399.13	-18.50	10.67	-17.09	2.00	2.00	0.00
2,500.00	9.00	150.03	2,498.15	-30.55	17.62	-28.23	2.00	2.00	0.00
2,600.00	11.00	150.03	2,596.63	-45.60	26.29	-42.13	2.00	2.00	0.00
2,700.00	13.00	150.03	2,694.44	-63.61	36.68	-58.77	2.00	2.00	0.00
2,800.00 2,900.00	15.00 17.00	150.03 150.03	2,791.46 2.887.58	-84.56 -108.44	48.76 62.53	-78.13 -100.20	2.00 2.00	2.00 2.00	0.00 0.00
2,900.00	17.00	150.03	2,887.58 2,935.27	-108.44 -121.46	62.53 70.04	-100.20 -112.23	2.00	2.00	0.00
3,000.00	18.00	150.03	2,982.82	-134.85	77.76	-124.60	0.00	0.00	0.00
3.100.00	18.00	150.03	3,077.93	-161.62	93.20	-149.33	0.00	0.00	0.00
3,200.00	18.00	150.03	3,077.93	-188.39	108.64	-149.33	0.00	0.00	0.00
3,300.00	18.00	150.03	3,268.14	-215.16	124.07	-198.80	0.00	0.00	0.00
3,400.00	18.00	150.03	3,363.24	-241.93	139.51	-223.54	0.00	0.00	0.00
3,500.00	18.00	150.03	3,458.35	-268.70	154.95	-248.27	0.00	0.00	0.00
3,600.00	18.00	150.03	3,553.46	-295.47	170.39	-273.00	0.00	0.00	0.00
3,700.00	18.00	150.03	3,648.56	-322.23	185.82	-297.74	0.00	0.00	0.00
3,800.00	18.00	150.03	3,743.67	-349.00	201.26	-322.47	0.00	0.00	0.00
3,900.00 4,000.00	18.00 18.00	150.03 150.03	3,838.77 3,933.88	-375.77 -402.54	216.70 232.14	-347.21 -371.94	0.00 0.00	0.00 0.00	0.00 0.00
4,100.00	18.00	150.03	4,028.98	-429.31	247.57	-396.68	0.00	0.00	0.00
4,200.00 4,250.00	18.00 18.00	150.03 150.03	4,124.09 4,171.64	-456.08 -469.47	263.01 270.73	-421.41 -433.78	0.00 0.00	0.00 0.00	0.00 0.00
4,250.00 Build 2°/100		150.03	4,171.04	-403.47	210.13	-433.70	0.00	0.00	0.00
4,300.00	18.00	150.03	4,219.19	-482.85	278.45	-446.15	0.00	0.00	0.00
4,400.00	18.00	150.03	4,314.30	-509.62	293.88	-470.88	0.00	0.00	0.00
4,500.00	18.00	150.03	4,409.41	-536.39	309.32	-495.62	0.00	0.00	0.00
4,600.00	18.00	150.03	4,409.41	-563.16	324.76	-495.62 -520.35	0.00	0.00	0.00

#### **Planning Report**

Database: Company: HOPSPP

**ENGINEERING DESIGNS** 

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Nugget 6\_31

Well: Nugget 6\_31 Fed Com 26H

Wellbore: ORIG HOLE

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Nugget 6\_31 Fed Com 26H

RKB=25' @ 3482.00ft RKB=25' @ 3482.00ft

Grid

Design:	Permitting Pla	ın							
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)
4,700.00	18.00	150.03	4,599.62	-589.93	340.20	-545.08	0.00	0.00	0.00
4,800.00	18.00	150.03	4,694.72	-616.70	355.63	-569.82	0.00	0.00	0.00
4,900.00	18.00	150.03	4,789.83	-643.47	371.07	-594.55	0.00	0.00	0.00
5,000.00	18.00	150.03	4,884.93	-670.24	386.51	-619.29	0.00	0.00	0.00
5,100.00	18.00	150.03	4,980.04	-697.01	401.95	-644.02	0.00	0.00	0.00
5,200.00	18.00	150.03	5,075.15	-723.78	417.38	-668.76	0.00	0.00	0.00
5,249.98	18.00	150.03	5,122.68	-737.16	425.10	-681.12	0.00	0.00	0.00
Hold 20° Tar		100.00	0,122.00	101.10	120.10	001.12	0.00	0.00	0.00
5,300.00	18.00	150.03	5,170.25	-750.55	432.82	-693.49	0.00	0.00	0.00
5,400.00	18.00	150.03	5,265.36	-777.32	448.26	-718.23	0.00	0.00	0.00
5,500.00	18.00	150.03	5,360.46	-804.09	463.69	-742.96	0.00	0.00	0.00
5,600.00	18.00	150.03	5,455.57	-830.86	479.13	-767.70	0.00	0.00	0.00
5,700.00	18.00	150.03	5,550.67	-857.63	494.57	-792.43	0.00	0.00	0.00
5,800.00	18.00	150.03	5,645.78	-884.40	510.01	-817.16	0.00	0.00	0.00
5,900.00	18.00	150.03	5,740.89	-911.16	525.44	-841.90	0.00	0.00	0.00
6,000.00	18.00	150.03	5,835.99	-937.93	540.88	-866.63	0.00	0.00	0.00
6,100.00	18.00	150.03	5,931.10	-964.70	556.32	-891.37	0.00	0.00	0.00
6,200.00	18.00	150.03	6,026.20	-991.47	571.76	-916.10	0.00	0.00	0.00
6,300.00	18.00	150.03	6,121.31	-1,018.24	587.19	-940.84	0.00	0.00	0.00
6,400.00	18.00	150.03	6,216.41	-1,045.01	602.63	-965.57	0.00	0.00	0.00
6,500.00	18.00	150.03	6,311.52	-1,071.78	618.07	-990.31	0.00	0.00	0.00
6,600.00	18.00	150.03	6,406.62	-1,098.55	633.50	-1,015.04	0.00	0.00	0.00
6,700.00	18.00	150.03	6,501.73	-1,125.32	648.94	-1,039.78	0.00	0.00	0.00
6,800.00	18.00	150.03	6,596.84	-1,152.09	664.38	-1,064.51	0.00	0.00	0.00
6,900.00	18.00	150.03	6,691.94	-1,178.86	679.82	-1,089.24	0.00	0.00	0.00
7,000.00	18.00	150.03	6,787.05	-1,205.63	695.25	-1,113.98	0.00	0.00	0.00
7,100.00	18.00	150.03	6,882.15	-1,232.40	710.69	-1,138.71	0.00	0.00	0.00
7,200.00	18.00	150.03	6,977.26	-1,259.17	726.13	-1,163.45	0.00	0.00	0.00
7,300.00	18.00	150.03	7,072.36	-1,285.94	741.56	-1,188.18	0.00	0.00	0.00
7,400.00	18.00	150.03	7,167.47	-1,312.71	757.00	-1,212.92	0.00	0.00	0.00
7,500.00	18.00	150.03	7,262.58	-1,339.48	772.44	-1,237.65	0.00	0.00	0.00
7,600.00	18.00	150.03	7,357.68	-1,366.25	787.88	-1,262.39	0.00	0.00	0.00
7,700.00	18.00	150.03	7,452.79	-1,393.02	803.31	-1,287.12	0.00	0.00	0.00
7,800.00	18.00	150.03	7,547.89	-1,419.79	818.75	-1,311.86	0.00	0.00	0.00
7,900.00	18.00	150.03	7,643.00	-1,446.56	834.19	-1,336.59	0.00	0.00	0.00
8,000.00	18.00	150.03	7,738.10	-1,473.32	849.63	-1,361.32	0.00	0.00	0.00
8,100.00	18.00	150.03	7,833.21	-1,500.09	865.06	-1,386.06	0.00	0.00	0.00
8,200.00	18.00	150.03	7,928.32	-1,526.86	880.50	-1,410.79	0.00	0.00	0.00
8,255.44	18.00	150.03	7,981.04	-1,541.71	889.06	-1,424.51	0.00	0.00	0.00
8,263.48	17.49	147.98	7,988.69	-1,543.80	890.32	-1,426.44	10.00	-6.29	-25.51
· ·	17.49 & Turn 11°/100		7,300.09	-1,043.00	090.32	-1,420.44	10.00	-0.29	-20.01
8,300.00	15.51	137.16	8,023.72	-1,552.04	896.55	-1,433.87	10.00	-5.44	-29.63
8,400.00	13.96	97.52	8,120.67	-1,563.45	917.65	-1,442.68	10.00	-1.55	-39.64
8,500.00	18.58	65.15	8,216.83	-1,558.32	944.13	-1,434.43	10.00	4.62	-32.36
8,600.00	26.30	48.22	8,309.29	-1,536.81	975.19	-1,409.36	10.00	7.72	-16.94
8,700.00	35.13	38.93	8,395.22	-1,499.57	1,009.88	-1,368.25	10.00	8.83	-9.28
8,800.00	44.41	33.07	8,472.02	-1,447.73	1,047.14	-1,312.33	10.00	9.28	-5.86
8,806.25	45.00	32.77	8,476.47	-1,444.04	1,049.53	-1,308.38	10.00	9.42	-4.79
8,900.00	52.22	24.78	8,538.47	-1,382.40	1,083.08	-1,243.17	10.00	7.70	-8.52
9,000.00	60.41	17.86	8,593.93	-1,304.94	1,113.05	-1,162.69	10.00	8.18	-6.92
9,100.00	68.89	12.00	8,636.74	-1,217.71	1,136.14	-1,073.32	10.00	8.49	-5.86
9,200.00	77.56	6.79	8,665.58	-1,123.36	1,151.65	-977.80	10.00	8.67	-5.22
9,208.09	78.27	6.38	8,667.28	-1,115.50	1,152.56	-969.89	10.00	8.73	-4.99
<b>Landing Poi</b> 9,300.00	nt, Turn 1.5°/10 86.32	<b>00'</b> 1.91	8,679.60	-1,024.76	1,159.10	-879.01	10.00	8.76	-4.86

#### Planning Report

Database: Company: Project: HOPSPP

**ENGINEERING DESIGNS** 

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Nugget 6\_31

Well: Nugget 6\_31 Fed Com 26H

Wellbore: ORIG HOLE

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Nugget 6\_31 Fed Com 26H

RKB=25' @ 3482.00ft RKB=25' @ 3482.00ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,344.90	90.27	359.77	8,680.93	-979.89	1,159.76	-834.39	10.00	8.79	-4.77
9,400.00	90.27	359.77	8,680.67	-924.79	1,159.54	-779.71	0.00	0.00	0.00
9,500.00	90.27	359.77	8,680.21	-824.79	1,159.13	-680.48	0.00	0.00	0.00
9,600.00	90.27	359.77	8,679.74	-724.80	1,158.72	-581.24	0.00	0.00	0.00
9,700.00	90.27	359.77	8,679.27	-624.80	1,158.32	-482.01	0.00	0.00	0.00
9,800.00	90.27	359.77	8,678.80	-524.80	1,157.91	-382.77	0.00	0.00	0.00
9,900.00	90.27	359.77	8,678.34	-424.80	1,157.50	-283.54	0.00	0.00	0.00
10,000.00	90.27	359.77	8,677.87	-324.80	1,157.10	-184.31	0.00	0.00	0.00
10,100.00	90.27	359.77	8,677.40	-224.81	1,156.69	-85.07	0.00	0.00	0.00
10,200.00	90.27	359.77	8,676.93	-124.81	1,156.28	14.16	0.00	0.00	0.00
10,300.00	90.27	359.77	8,676.47	-24.81	1,155.88	113.40	0.00	0.00	0.00
10,400.00 10,500.00 10,541.61 <b>Hold</b>	90.27 90.27 90.27	359.77 359.77 359.77	8,676.00 8,675.53 8,675.34	75.19 175.19 216.80	1,155.47 1,155.06 1,154.90	212.63 311.86 353.16	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
10,600.00	90.27	359.77	8,675.06	275.18	1,154.66	411.10	0.00	0.00	0.00
10,700.00	90.27	359.77	8,674.60	375.18	1,154.25	510.33	0.00	0.00	0.00
10,800.00	90.27	359.77	8,674.13	475.18	1,153.85	609.57	0.00	0.00	0.00
10,900.00	90.27	359.77	8,673.66	575.18	1,153.44	708.80	0.00	0.00	0.00
11,000.00	90.27	359.77	8,673.19	675.18	1,153.03	808.03	0.00	0.00	0.00
11,100.00	90.27	359.77	8,672.72	775.17	1,152.63	907.27	0.00	0.00	0.00
11,200.00	90.27	359.77	8,672.26	875.17	1,152.22	1,006.50	0.00	0.00	0.00
11,300.00	90.27	359.77	8,671.79	975.17	1,151.81	1,105.74	0.00	0.00	0.00
11,400.00	90.27	359.77	8,671.32	1,075.17	1,151.41	1,204.97	0.00	0.00	0.00
11,500.00	90.27	359.77	8,670.85	1,175.17	1,151.00	1,304.20	0.00	0.00	0.00
11,600.00	90.27	359.77	8,670.39	1,275.17	1,150.59	1,403.44	0.00	0.00	0.00
11,700.00	90.27	359.77	8,669.92	1,375.16	1,150.19	1,502.67	0.00	0.00	0.00
11,800.00	90.27	359.77	8,669.45	1,475.16	1,149.78	1,601.91	0.00	0.00	0.00
11,900.00	90.27	359.77	8,668.98	1,575.16	1,149.38	1,701.14	0.00	0.00	0.00
12,000.00	90.27	359.77	8,668.52	1,675.16	1,148.97	1,800.37	0.00	0.00	0.00
12,100.00	90.27	359.77	8,668.05	1,775.16	1,148.56	1,899.61	0.00	0.00	0.00
12,200.00	90.27	359.77	8,667.58	1,875.15	1,148.16	1,998.84	0.00	0.00	0.00
12,300.00	90.27	359.77	8,667.11	1,975.15	1,147.75	2,098.08	0.00	0.00	0.00
12,400.00	90.27	359.77	8,666.65	2,075.15	1,147.34	2,197.31	0.00	0.00	0.00
12,500.00 12,600.00 12,700.00	90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77	8,665.71 8,665.24	2,075.15 2,175.15 2,275.15 2,375.14	1,146.94 1,146.53 1,146.12	2,197.31 2,296.54 2,395.78 2,495.01	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
12,800.00	90.27	359.77	8,664.77	2,475.14	1,145.72	2,594.25	0.00	0.00	0.00
12,900.00	90.27	359.77	8,664.31	2,575.14	1,145.31	2,693.48	0.00	0.00	0.00
13,000.00	90.27	359.77	8,663.84	2,675.14	1,144.90	2,792.71	0.00	0.00	0.00
13,100.00	90.27	359.77	8,663.37	2,775.14	1,144.50	2,891.95	0.00	0.00	0.00
13,200.00	90.27	359.77	8,662.90	2,875.13	1,144.09	2,991.18	0.00	0.00	0.00
13,300.00	90.27	359.77	8,662.44	2,975.13	1,143.69	3,090.42	0.00	0.00	0.00
13,400.00	90.27	359.77	8,661.97	3,075.13	1,143.28	3,189.65	0.00	0.00	0.00
13,500.00	90.27	359.77	8,661.50	3,175.13	1,142.87	3,288.88	0.00	0.00	0.00
13,600.00	90.27	359.77	8,661.03	3,275.13	1,142.47	3,388.12	0.00	0.00	0.00
13,700.00	90.27	359.77	8,660.57	3,375.12	1,142.06	3,487.35	0.00	0.00	0.00
13,800.00	90.27	359.77	8,660.10	3,475.12	1,141.65	3,586.59	0.00	0.00	0.00
13,900.00	90.27	359.77	8,659.63	3,575.12	1,141.25	3,685.82	0.00	0.00	0.00
14,000.00	90.27	359.77	8,659.16	3,675.12	1,140.84	3,785.05	0.00	0.00	0.00
14,100.00	90.27	359.77	8,658.70	3,775.12	1,140.43	3,884.29	0.00	0.00	0.00
14,200.00	90.27	359.77	8,658.23	3,875.12	1,140.03	3,983.52	0.00	0.00	0.00
14,300.00	90.27	359.77	8,657.76	3,975.11	1,139.62	4,082.76	0.00	0.00	0.00
14,400.00	90.27	359.77	8,657.29	4,075.11	1,139.21	4,181.99	0.00	0.00	0.00
14,500.00	90.27	359.77	8,656.83	4,175.11	1,138.81	4,281.22	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

**ENGINEERING DESIGNS** 

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Nugget 6\_31

Well: Nugget 6\_31 Fed Com 26H

Wellbore: ORIG HOLE

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Nugget 6\_31 Fed Com 26H

RKB=25' @ 3482.00ft RKB=25' @ 3482.00ft

Grid Minimum Curvature

		_
P	lanned	Survey

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)
14,600.00 14,700.00	90.27 90.27	359.77 359.77	8,656.36 8,655.89	4,275.11 4,375.11	1,138.40 1,138.00	4,380.46 4,479.69	0.00 0.00	0.00 0.00	0.00 0.00
14,800.00 14,900.00 15,000.00 15,100.00 15,200.00 15,300.00	90.27 90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77 359.77	8,655.42 8,654.95 8,654.49 8,654.02 8,653.55 8,653.08	4,475.10 4,575.10 4,675.10 4,775.10 4,875.10 4.975.09	1,137.59 1,137.18 1,136.78 1,136.37 1,135.96	4,578.93 4,678.16 4,777.39 4,876.63 4,975.86 5,075.10	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
15,400.00 15,500.00 15,600.00 15,700.00	90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77 359.77	8,652.62 8,652.15 8,651.68 8,651.21 8,650.75	5,075.09 5,175.09 5,275.09 5,375.09 5,475.08	1,135.15 1,134.74 1,134.34 1,133.93	5,174.33 5,273.56 5,372.80 5,472.03 5,571.27	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
15,900.00 15,900.00 16,000.00 16,100.00 16,200.00	90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77 359.77	8,650.28 8,649.81 8,649.34 8,648.88 8,648.41	5,575.08 5,675.08 5,775.08 5,875.08 5,975.07	1,133.12 1,132.71 1,132.31 1,131.90	5,670.50 5,769.73 5,868.97 5,968.20 6,067.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16,400.00 16,500.00 16,600.00 16,700.00	90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77 359.77	8,647.94 8,647.47 8,647.00 8,646.54 8,646.07	6,075.07 6,175.07 6,275.07 6,375.07 6,475.07	1,131.49 1,131.09 1,130.68 1,130.27 1,129.87	6,166.67 6,265.90 6,365.14 6,464.37 6,563.61	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16,900.00 17,000.00 17,100.00 17,200.00	90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77	8,645.60 8,645.13 8,644.67 8,644.20	6,575.06 6,675.06 6,775.06 6,875.06	1,129.05 1,128.65 1,128.24 1,127.84	6,662.84 6,762.08 6,861.31 6,960.54	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
17,300.00 17,400.00 17,500.00 17,600.00 17,700.00	90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77 359.77	8,643.73 8,643.26 8,642.80 8,642.33 8,641.86	6,975.06 7,075.05 7,175.05 7,275.05 7,375.05	1,127.43 1,127.02 1,126.62 1,126.21 1,125.80	7,059.78 7,159.01 7,258.25 7,357.48 7,456.71	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
17,800.00 17,900.00 18,000.00 18,100.00 18,200.00	90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77 359.77	8,641.39 8,640.93 8,640.46 8,639.99 8,639.52	7,475.05 7,575.04 7,675.04 7,775.04 7,875.04	1,125.40 1,124.99 1,124.58 1,124.18 1,123.77	7,555.95 7,655.18 7,754.42 7,853.65 7,952.88	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
18,300.00 18,400.00 18,500.00 18,600.00 18,700.00	90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77 359.77	8,639.06 8,638.59 8,638.12 8,637.65 8,637.18	7,975.04 8,075.03 8,175.03 8,275.03 8,375.03	1,123.36 1,122.96 1,122.55 1,122.15 1,121.74	8,052.12 8,151.35 8,250.59 8,349.82 8,449.05	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
18,800.00 18,900.00 19,000.00 19,100.00 19,193.11	90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77 359.77	8,636.72 8,636.25 8,635.78 8,635.31 8,634.88	8,475.03 8,575.03 8,675.02 8,775.02 8,868.13	1,121.33 1,120.93 1,120.52 1,120.11 1,119.74	8,548.29 8,647.52 8,746.76 8,845.99 8,938.39	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
TD at 19193		250.77	0 604 05	0.075.00	1,119.71	9.045.00	0.00	0.00	0.00
19,200.00 19,300.00 19,400.00 19,500.00 19,600.00	90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77 359.77	8,634.85 8,634.38 8,633.91 8,633.44 8,632.98	8,875.02 8,975.02 9,075.02 9,175.01 9,275.01	1,119.30 1,118.89 1,118.49 1,118.08	8,945.22 9,044.46 9,143.69 9,242.93 9,342.16	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
19,619.90	90.27	359.77	8,632.88	9,294.91	1,118.00	9,361.90	0.00	0.00	0.00

#### **Planning Report**

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Nugget 6\_31

Well: Nugget 6\_31 Fed Com 26H

Wellbore: ORIG HOLE

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Nugget 6\_31 Fed Com 26H

RKB=25' @ 3482.00ft RKB=25' @ 3482.00ft

Grid

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 targe - Point	0.00 t center by 19	0.00 943.77ft at 0	0.00 .00ft MD (0.	-1,558.12 00 TVD, 0.00	1,162.11 N, 0.00 E)	450,818.70	703,348.85	32.238290	-103.809340
PBHL (Nugget 6_31 - plan hits target ce - Point	0.00 nter	0.00	8,632.88	9,294.91	1,118.00	461,671.04	703,304.74	32.268121	-103.809311
FTP (Nugget 6_31 Fed - plan misses targe - Point		0.00 7.09ft at 917	8,681.77 3.20ft MD (8	-1,158.09 8659.28 TVD,	1,160.48 -1149.19 N,	451,218.70 1148.27 E)	703,347.22	32.239390	-103.809339

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	572.00	572.00	RUSTLER			
	946.00	946.00	SALADO			
	2,000.00	2,000.00	MARKER BED 126		0.00	
	2,828.55	2,819.00	CASTILE			
	4,289.28	4,209.00	DELAWARE			
	4,312.41	4,231.00	BELL CANYON			
	5,300.79	5,171.00	CHERRY CANYON			
	6,601.45	6,408.00	BRUSHY CANYON			
	8,345.77	8,068.00	BONE SPRING			
i .						

Plan Annotations					
Measu Dept (ft)		ertical Depth (ft)	Local Coordi +N/-S (ft)	nates +E/-W (ft)	Comment
1	5.05	65.05	0.00	0.00	PPP-1 Cross
9	0.27	90.27	0.00	0.00	PPP-2 Cross
9	0.27	90.27	0.00	0.00	PPP-3 Cross
9	0.27	90.27	0.00	0.00	PPP-4 Cross
4,25	0.00	4,171.64	-469.47	270.73	Build 2°/100'
5,24	9.98	5,122.68	-737.16	425.10	Hold 20° Tangent
8,26	3.48	7,988.69	-1,543.80	890.32	KOP, Build & Turn 11°/100'
9,20	8.09	8,667.28	-1,115.50	1,152.56	Landing Point, Turn 1.5°/100'
10,54	1.61	8,675.34	216.80	1,154.90	Hold
19,19	3.11	8,634.88	8,868.13	1,119.74	TD at 19193.11' MD





### 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"

		l	MD	T	VD				
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	14.75	0	1200	0	1200	10.75	45.5	J-55	втс
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

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

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

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

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

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

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





All Casing SF Values will meet or							
exceed those below							
SF	SF Body SF Joint SF						
•	٠.	Jou, 5.	30				
Collapse		Tension					

### **§Annular Clearance Variance Request**

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

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

## 2. Trajectory / Boundary Conditions

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

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

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





### 3. Cementing Program

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

#### Design Variation "A1"

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	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.

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

#### **Design Variation "A2"**

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	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.

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

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

#### **Offline Cementing Request**

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

### **Bradenhead CBL Request**

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





### 4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	1	Tested to:	Deepest TVD Depth (ft) per Section:	
		5M		Annular	✓	70% of working pressure		
				Blind Ram	✓		12775**	
9.875" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi		
		JIVI		Double Ram	✓	200 psi / 0000 psi		
			Other*					
		5M		Annular	✓	100% of working pressure		
				Blind Ram	✓			
6.75" Hole	13-5/8"	10M		Pipe Ram		250 psi / 10000 psi	12775	
		TOIVI		Double Ram	<b>√</b>	200 p31/ 10000 p31		
			Other*					

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

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

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

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

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

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





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

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

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

Υ

Are anchors required by manufacturer?

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

See attached Schematics.

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

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

#### **Hammer Union Variance**

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

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





### 5. Mud Program & Drilling Conditions

Section	Depth - MD		Depth - TVD		Tuno	Weight	Viscosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	1200	0	1200	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	1200	13111*	1200	12775*	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	13111	23361	12775	12775	Water-Based or Oil- Based Mud	9.5 - 13.5	38-50	N/C

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

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

### **Drilling Blind Request**

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

- Oxy will first attempt to cure losses before proceeding with drilling blind
- Drilling blind will only be allowed in the Castille and formations below
- While drilling blind, will monitor backside by filling-up on connections and 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	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	, ,

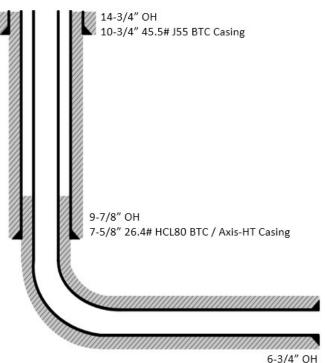
Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential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





# 6. Wellbore Diagram(s)

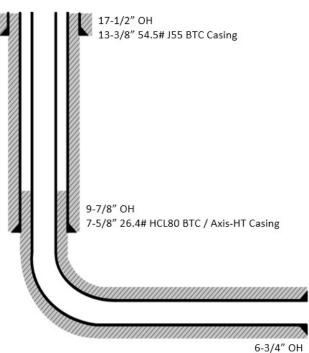
### Design Variation "A1"



5-1/2" 20# P110 Wedge 461 / Sprint SF / DWC/C-HT-IS Casing

TOC @ 500' Above Prev. CSG

## Design Variation "A2"



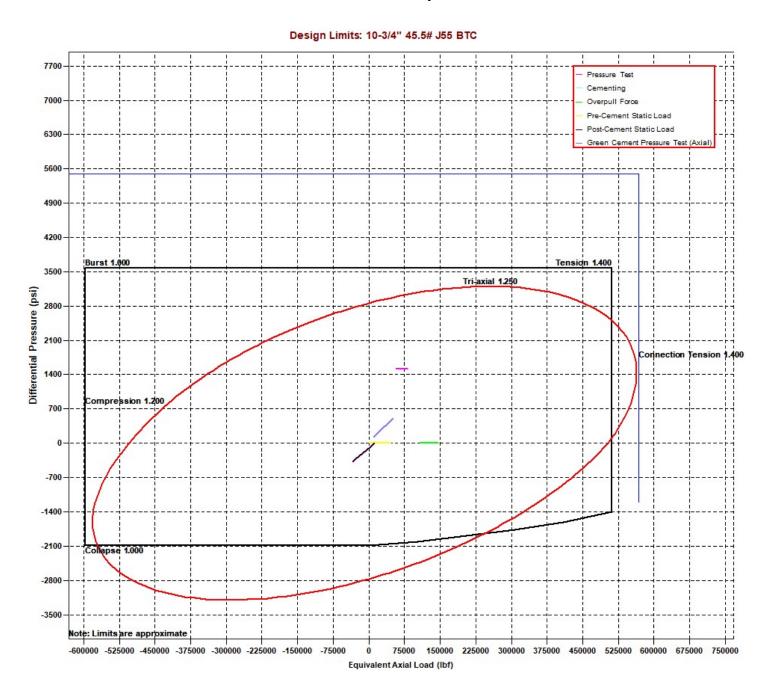
5-1/2" 20# P110 Wedge 461 / Sprint SF / DWC/C-HT-IS Casing

TOC @ 500' Above Prev. CSG



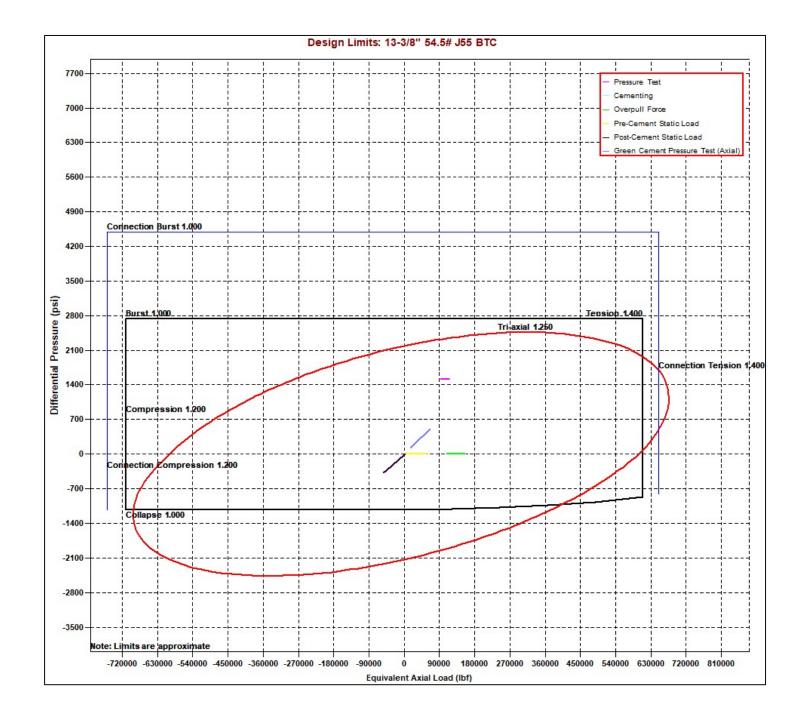


# 7. Landmark StressCheck Screenshots - Triaxial Output



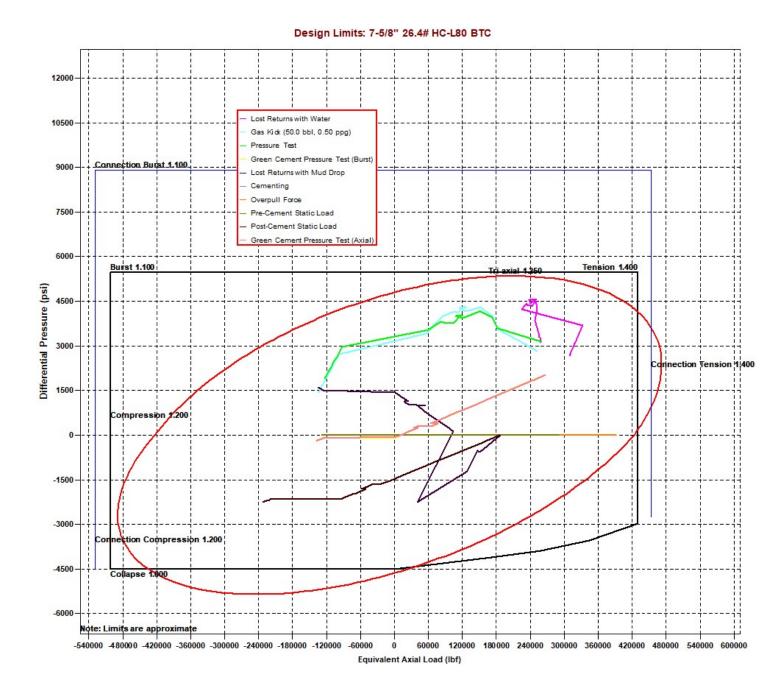








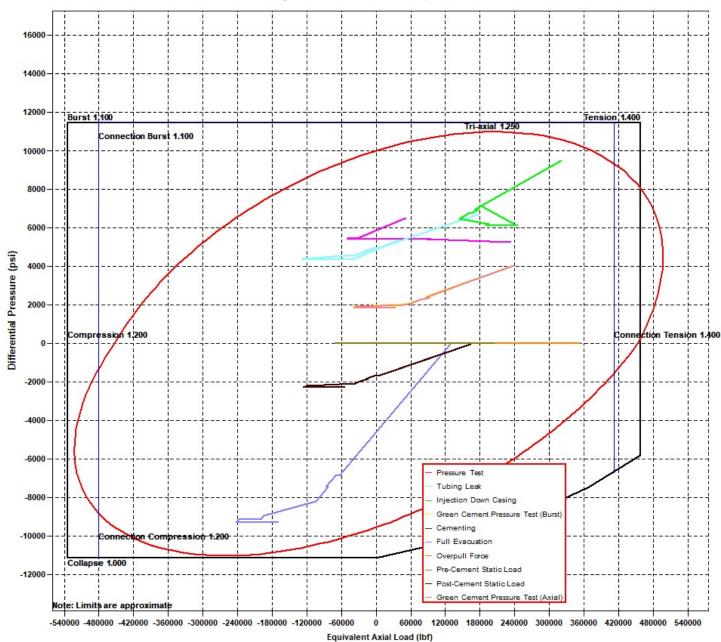










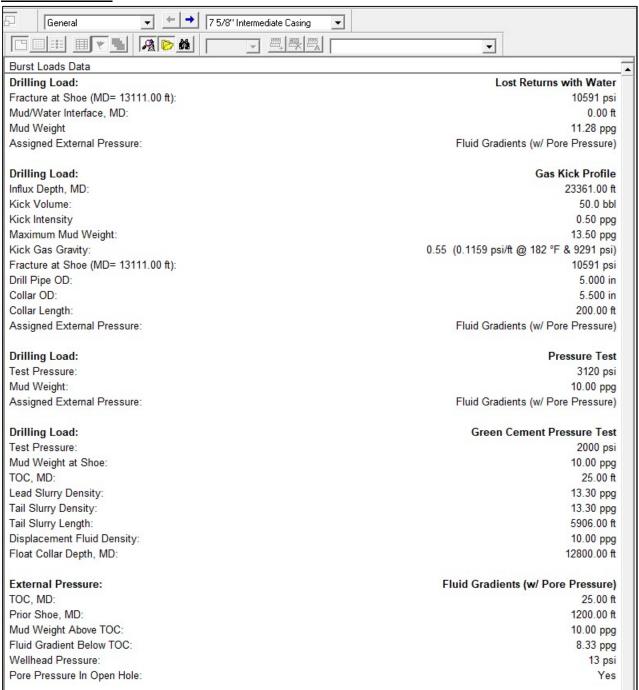






### 8. Landmark StressCheck Screenshots – Inputs for Intermediate CSG Load Cases

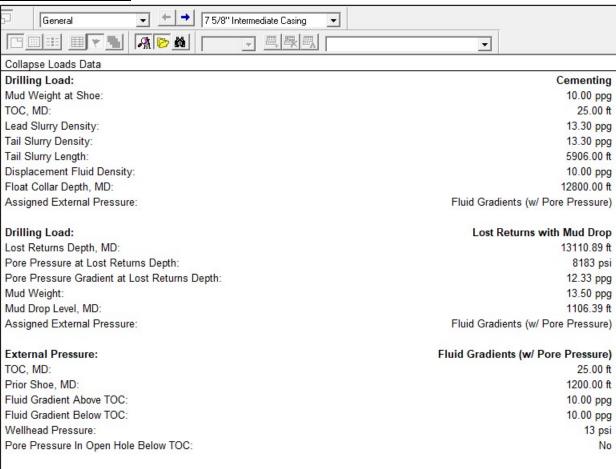
#### **Burst Load Cases**



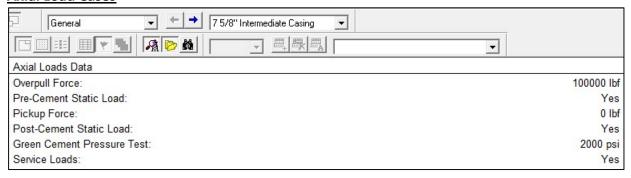




### **Collapse Load Cases**



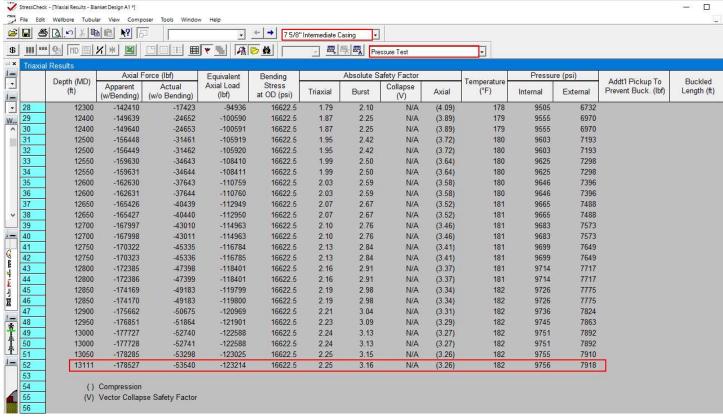
#### **Axial Load Cases**







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



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

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





### 10. Intermediate Non-API Casing Spec Sheet



# **Technical Data Sheet**

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

Mec	nanica	Properties	
Minimum Yield Strength	psi.	80,000	
Maximum Yield Strength	psi.	95,000	
Minimum Tensile Strength	psi.	95,000	
	Dime	nsions	
		Pipe	AXIS HT
Outside Diameter	in.	7.625	8.500
Wall Thickness	in.	0.328	525
Inside Diameter	in.	6.969	(C
Standard Drift	in.	6.844	6.844
Alternate Drift	in.	528	-
Plain End Weight	lbs/ft.	-	•
Nominal Linear Weight	lbs/ft.	26.40	6 <b>5</b> 6
	Perfor	mance	
		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	525
Joint Strength	lbs.	(5)	635 x 1,000
M	ake-Up	Torques	
		Pipe	AXIS HT
Optimum Make-Up Torque	ft/lbs.	12.	8,000
Maximum Operational Torque	ft/lbs.	(m)	25,000

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### 11. Production Non-API Casing Spec Sheets





Coupling	Pipe Body
Grade: P1104CY	Grade: P110-ICY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: •
	6th Band: -

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

#### Pipe Body Data

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

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

#### **Connection Data**

	0.0501
Connection OD	6.050 in
Coupling Length	7.714 in
Connection ID	4.778 in
Make-up Loss	3.775 in
Threads per inch	3.40
Connection OD Option	Ms

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

Make-Up Torques	
Minimum	17,000 ft-lb
Optimum	18,000 ft-lb
Maximum	21,600 ft-lb
Operation Limit Torques	
Operating Torque	43,000 ft-lb
Yield Torque	51,000 ft-lb
Buck-On	
Minimum	21,600 ft-lb
Maximum	23,100 ft-lb

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

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

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#### CONNECTION DATA SHEET





PIPF	RODY	PROP	FRT	FS .

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-Pr	remium Integral Semi
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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#### **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	A	PI 5CT
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	729	klb
Ultimate Strength	787	klb
Min. Internal Yield Pressure	14,360	psi
Collapse Pressure	12,090	psi

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

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

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

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

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

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

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

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

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

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#### **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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### 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.

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

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

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

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

All Casing SF Values will meet or					
exceed those below					
SF	SF	<b>Body SF</b>	Joint SF		
Collapse	Burst	Tension	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

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

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

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

## 3. Cementing Program

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

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

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

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

#### **Offline Cementing Request**

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





#### **Bradenhead CBL Request**

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

# 4. Pressure Control Equipment

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

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

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

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

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

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

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





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

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

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

Υ

Are anchors required by manufacturer?

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

See attached Schematics.

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

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

#### **Hammer Union Variance**

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

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





# 5. Mud Program & Drilling Conditions

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

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

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

# **Drilling Blind Request**

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

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

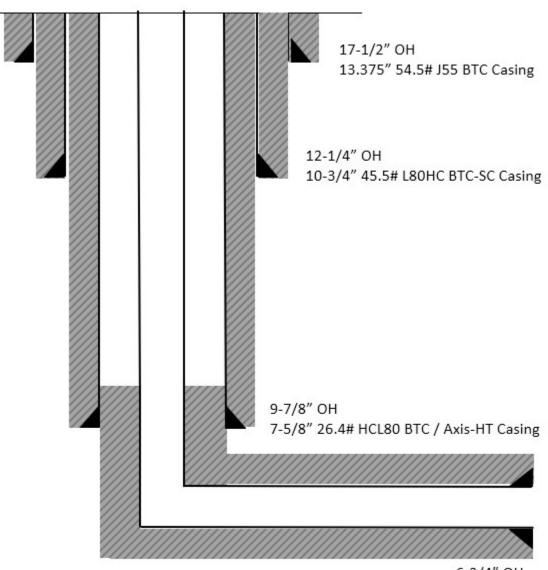
What will be used to monitor the	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	FV 1/1VID TOLCO/ VISUAL WIGHTONING

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





# 6. Wellbore Diagram

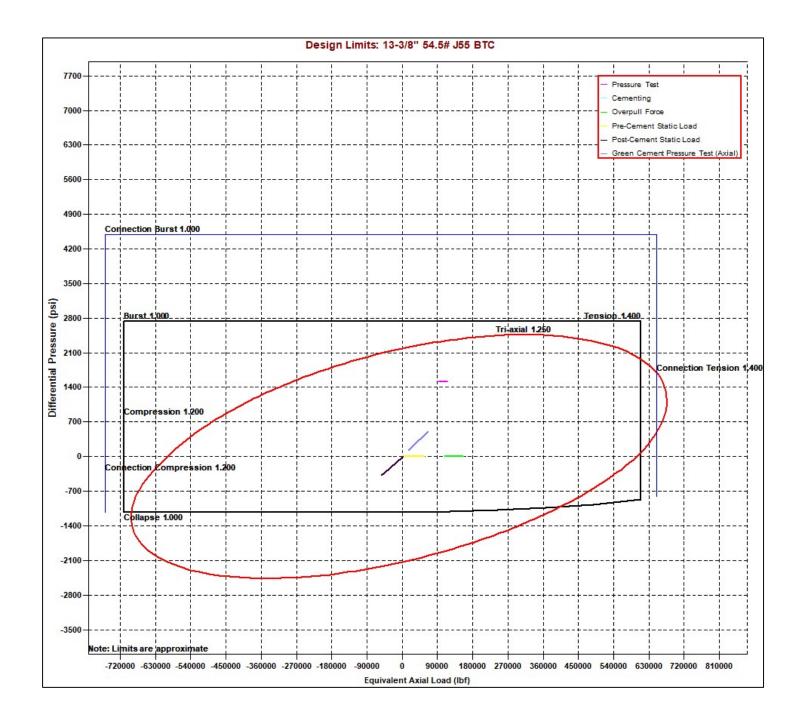


6-3/4" OH 5-1/2" 20# P110 Wedge 461 / Sprint SF / DWC/C-HT-IS Casing TOC @ 500' Above Prev Csg.





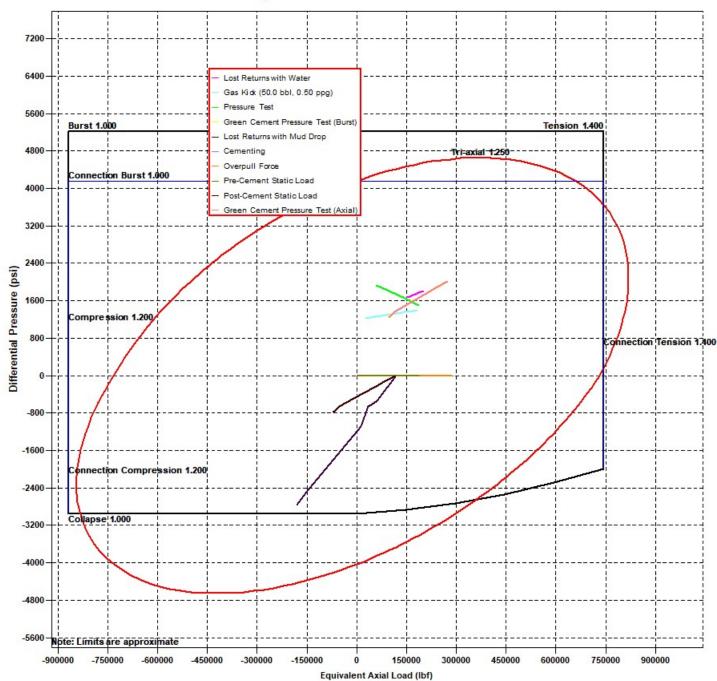
# 7. Landmark StressCheck Screenshots - Triaxial Output





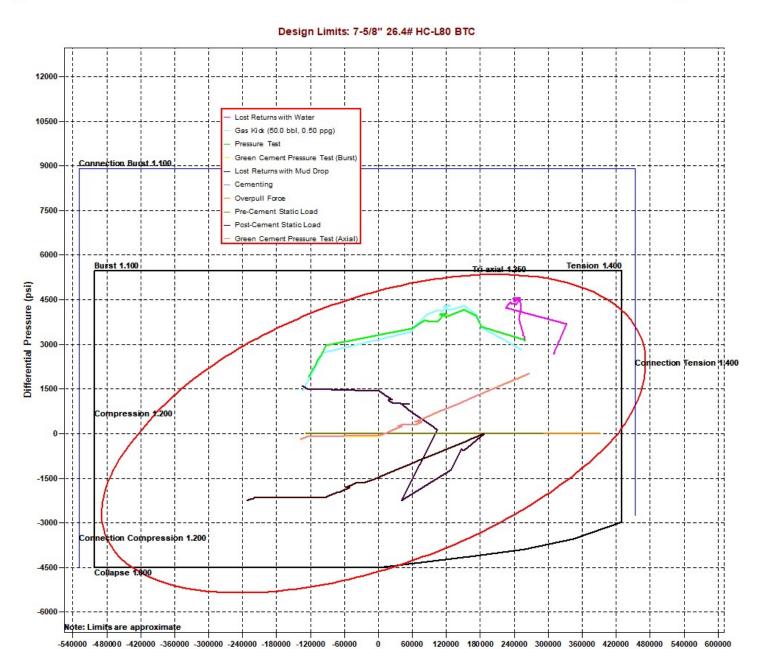


#### Design Limits: 10-3/4" 45.5# HC-L80 BTC-SC





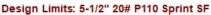


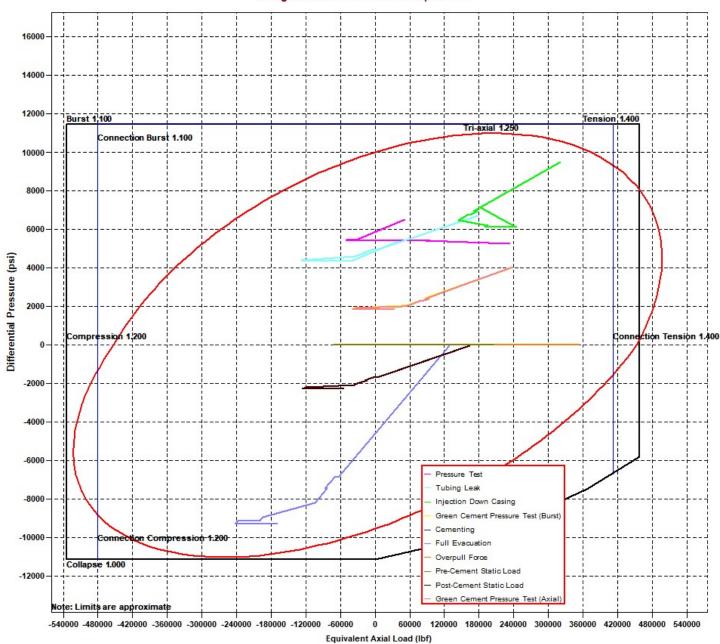


Equivalent Axial Load (lbf)







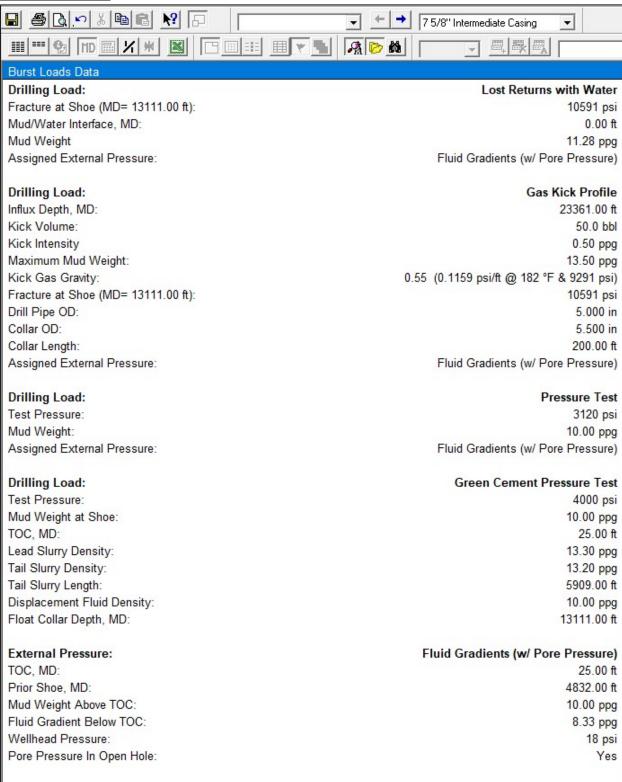






# 8. Landmark StressCheck Screenshots – Inputs for Intermediate 2 CSG Load Cases

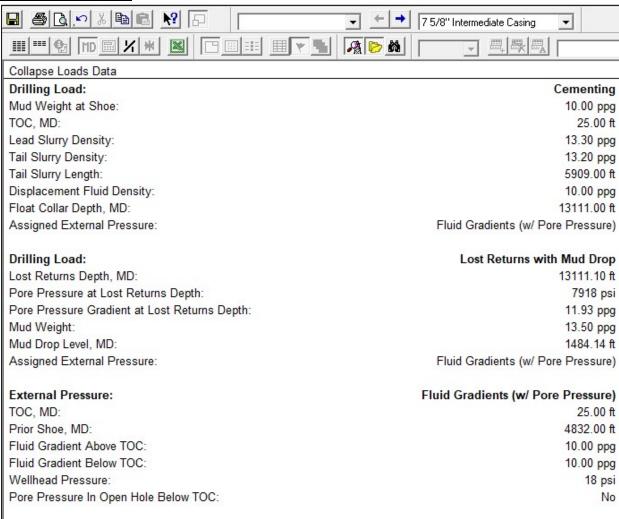
#### **Burst Load Cases**



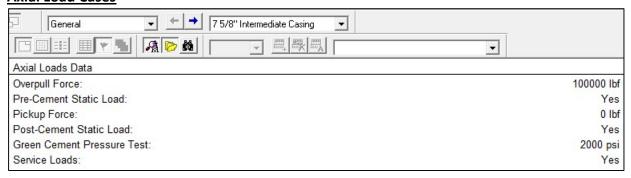




#### **Collapse Load Cases**



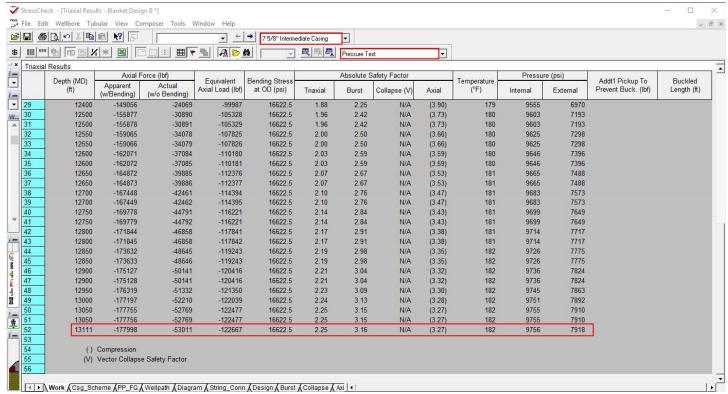
#### **Axial Load Cases**







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



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

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





Printed on: 06/19/2023

# 10. Intermediate Non-API Casing Spec Sheet

Tenaris **API BTC -Special** Clearance

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

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

#### **Pipe Body Data**

10.750 in.	Drift	9.875 in.
0.400 in.	Plain End Weight	44.26 lb/ft
45.500 lb/ft	OD Tolerance	API
9.950 in.		
	0.400 in. 45.500 lb/ft	0.400 in. Plain End Weight 45.500 lb/ft OD Tolerance

Performance	
SMYS	55,000 psi
Min UTS	75,000 psi
Body Yield Strength	715 x1000 lb
Min. Internal Yield Pressure	3580 psi
Collapse Pressure	2090 psi
Max. Allowed Bending	23 °/100 ft

#### **Connection Data**

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

#### Notes

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

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

(Sections 9 & 10) equations.

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

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# **Technical Data Sheet**

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

Mec	hanica	l Properties	
Minimum Yield Strength	psi.	80,000	
Maximum Yield Strength	psi.	95,000	
Minimum Tensile Strength	psi.	95,000	
	Dime	nsions	
		Pipe	AXIS HT
Outside Diameter	in.	7.625	8.500
Wall Thickness	in.	0.328	020
Inside Diameter	in.	6.969	-
Standard Drift	in.	6.844	6.844
Alternate Drift	in.	72	2
Plain End Weight	lbs/ft.		-
Nominal Linear Weight	lbs/ft.	26.40	6 <b>%</b> 6
	Perfor	mance	
		Pipe	AXIS HT
Minimum Collapse Pressure	psi.	4,320	5 <del>=</del> 3
Minimum Internal Yield Pressure	psi.	6,020	6,020
Minimum Pipe Body Yield Strength	lbs.	602 x 1,000	626
Joint Strength	lbs.	(5)	635 x 1,000
M	ake-Up	Torques	
		Pipe	AXIS HT
Optimum Make-Up Torque	ft/lbs.	15.	8,000
Maximum Operational Torque	ft/lbs.	0.00	25,000

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# 11. Production Non-API Casing Spec Sheets





**■**Tenaris

# TenarisHydril Wedge 461 ® MS



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

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

#### Pipe Body Data

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

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

#### **Connection Data**

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

Tension Efficiency	100 %
Tension Enciency	100 /6
Joint Yield Strength	729 x1000 lb
Internal Pressure Capacity	14,360 psi
Compression Efficiency	100 %
Compression Strength	729 x1000 lb
Max. Allowable Bending	104 °/100 fi
External Pressure Capacity	12,300 psi
Coupling Face Load	273,000 lb

Make-Up Torques	
Minimum	17,000 ft-lb
Optimum	18,000 ft-lb
Maximum	21,600 ft-lb
Operation Limit Torques	
Operating Torque	43,000 ft-lb
Yield Torque	51,000 ft-lb
Buck-On	
Minimum	21,600 ft-lb
Maximum	23,100 ft-lb

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

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

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Generated on May 21, 2024

12,640

11,100 psi



#### CONNECTION DATA SHEET





PIPE BODY PROPERTIES -		
Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Wall Thickness	0.361	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	20.00	lb/ft
Plain End Weight	19.83	lb/ft
Drift	4.653	in.
Grade Type	API 5CT	ī
Minimum Yield Strength	110	ksi
Maximum Yield Strength	140	ksi
Minimum Ultimate Tensile Strength	125	ksi

#### CONNECTION PROPERTIES

Pipe Body Yield Strength Internal Yield Pressure

Collapse Pressure

DIDE DODY DRODEDTIES

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

#### JOINT PERFORMANCES

Tension Strength	577	klb
Compression Strength	577	klb
Internal Pressure Resistance	12,640	psi
External Pressure Resistance	11,100	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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# DING/C-Mr-15

#### **Connection Data Sheet**

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

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

Connection Type	Semi-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	

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

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

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

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

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

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

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

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

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#### **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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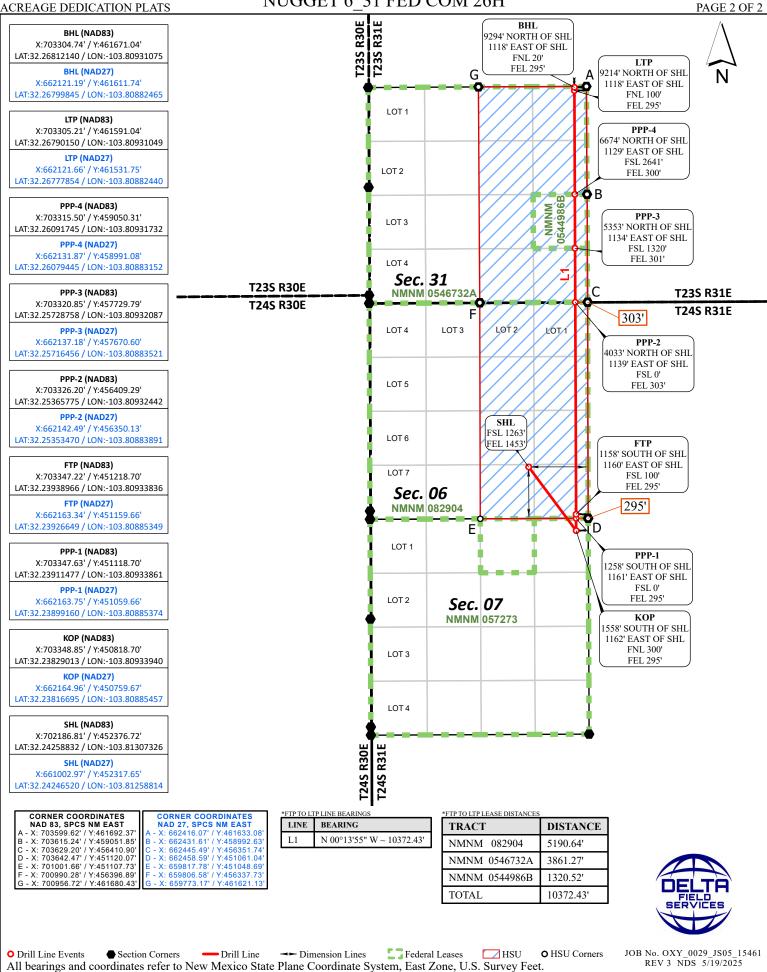
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Submit Electronically Via OCD Permitting

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

	Revised July 9, 2024 PAGE 1 OF 2
	☐ Initial Submittal
Submittal	✓ Amended Report

									As	Drilled		
					WELL LOCATIO	N INFORMATION						
API Nur <b>30-</b> (	nber 015-56	6050	Pool Code 13367	7		COTTON DRAW; BONE SPRING						
Property 329			Property Na	me	NI IGGET 6	31 FED COM		Well Number	1			
OGRID			Operator Na	me	NOGGET 0_	51 FED COM			Ground Level Elevat			
	16696	, )			OXY U	SA INC.			345	7'		
Surface	e Owner: [	State [	Fee Tri	ibal 🔽	Federal	Mineral Owner:	State [	Fee	Tribal Federa	1		
					Surface	Location						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	(NAD83)	Longitude (NAD83)	County		
О	06	24S	31E		1263' FSL	1453' FEL	32.24	258832	-103.81307326	EDDY		
	Bottom Hole Location											
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	(NAD83)	Longitude (NAD83)	County		
A	31	23S	31E		20' FNL	295' FEL	32.26	812140	-103.80931075	EDDY		
	ed Acres 40.41	Infill or Defin	-		g Well API 015-56039	Overlapping Spacing Unit (	(Y/N)		Consolidation Code N/A			
Order 1	Numbers: N	/A				Well setbacks are under	Common	Ownership	: Yes N	0		
					Kick Off F	oint (KOP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	(NAD83)	Longitude (NAD83)	County		
A	07	24S	31E		300' FNL	295' FEL	32.23	829013	-103.80933940	EDDY		
					First Take	Point (FTP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	(NAD83)	Longitude (NAD83)	County		
P	06	24S	31E		100' FSL	295' FEL	32.23	938966	-103.80933836	EDDY		
					Last Take	Point (LTP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	(NAD83)	Longitude (NAD83)	County		
A	31	23S	31E		100' FNL	295' FEL	32.26	790150	-103.80931049	EDDY		
Unitized N/A		of Uniform Inter	est	Spacin	g Unit Type: X Horiz	ontal Vertical	G	round Floor	Elevation 3457'			
OPER	ATOR CEI	RTIFICATIO	NS			SURVEYOR CERTI	FICATIO	ONS				
I hereby knowled either o propose contrac	certify that the lge and belief, wns a working and bottom hole t with an owne	e information con and, if the well is interest or unlea location or has a r of a working in	ntained herein s a vertical or d sed mineral in right to drill t terest or unlea	directional terest in th his well at sed minera	l complete to the best of my well, that this organization e land including the this location pursuant to a al interest, or to a voluntary tered by the division.	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.						
consent each tro	of at least one act (in the targe	lessee or owner et pool or format	of a working in ion) in which a	nterest or i ny part of	ation has received the unleased mineral interest in the well's completed from the division.	21653 21653						
Signa	ture	thrie	7/1/20 Date	025		Land & Short &						
	a Guthrie ed Name					TSTONAL SURT						
sara	guthrie@	②oxy.com				Signature and Seal of	Professi	ional Surv	eyor			
	Address	<b>y</b>				Certificate Number		Date of S	Survey			
						2	1653		MAY 20, 2	025		



# **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.
  - 0 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
  - o 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.
  - o 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 procldure.

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 thlee 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

# **Oxy USA Inc. - Blanket Design Pad Document**

**OXY** - Blanket Design A

**Pad Name:** SNDDNS\_T24SR31E\_6\_5 **SHL:** 1264' FSL 1513' FEL, Sec 06, T24S-R31E

Oxy requests for the bellow wells to be approved for the two designs listed in the Blanket Design document (Blanket Design A –OXY –3S Slim v7.2.) The MDs and TVDs for all intervals are within the boundary conditions. The max inclination and DLS are also within the boundary conditions (directional plans attached separately for review.)

#### 1. Blanket Design - Wells

Well Name	APD#	Sur	face	Intern	nediate	Production		
well Name	APD#	MD	TVD	MD	TVD	MD	TVD	
NUGGET 6_31 FED COM 24H	10400098023	873	873	8077	7818	19577	8683	
NUGGET 6_31 FED COM 25H	10400098031	881	881	8143	7908	19554	8824	
NUGGET 6_31 FED COM 26H	10400098045	886	886	8163	7889	19193	8667	

#### 2. Review Criteria Table

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

# 3. Geologic Formations

Formation	MD-RKB (ft)	TVD-RKB (ft)	<b>Expected Fluids</b>
Rustler	555	555	
Salado	933	933	Salt
Marker Bed 126	2000	2000	Salt
Castile	2810	2807	Salt
Delaware	4253	4186	Oil/Gas/Brine
Bell Canyon	4284	4216	Oil/Gas/Brine
Cherry Canyon	5239	5124	Oil/Gas/Brine
Brushy Canyon	6555	6376	Losses
Bone Spring	8308	8046	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

### 4. Cementing Program

Section	Stage	Slurry:	Sacks Yield De (ft^3/ft) (Ili		Density (lb/gal)	Excess:	тос	Placement	Description	
Surface	1	Surface - Tail	730	1.33	14.8	100%	-	Circulate	Class C+Accel.	
Int.	1	Intermediate 1S - Tail	171	1.68	13.2	5%	6,805	Circulate	Class C+Ret., Disper.	
Int.	2	Intermediate 2S - Tail BH	1051	1.71	13.3	25%	-	Bradenhead	Class C+Accel.	
Prod.	1	Production - Tail	680	1.84	13.3	25%	7,577	Circulate	Class C+Ret.	

Page 99 of 102

Received by OCD: 10/15/2025 10:21:05 AM

	OXY APD CHANGE SUNDRY LIST FORM			AFMSS Blurb																	
	DATE SUNDRY WORKSHEET CREATED WELL NAME_NUMBER API NUMBER ESTIMATED SPUD DATE	NUGGET 6_31 FED 30-015-56050 4/1/2026	FEDERAL COM 26H							HTS CHANGES AND ATTACHMEN DOCUMENTS ARE INDIVIDUAL	CHMENTS. GENERAL CHANGE DOCUMENTS ARE COMBINED INTO 1 PDF FILE AND WELL SPECIFIC VIDUAL ATTACHMENTS.										
ſ	ITEM			AF	PD BASE LINE (For R	egulatory to Comp	lete)					SUNDRY PLAN (Groups to complete the latest plan)									
ŀ		Date APD/BASE LIN	Date APD/BASE LINE APPROVED:								DATE Sundry Worksheet:										
	NAME	NUGGET 6_31 FEDI	ERAL COM 26H								NUGGET 6_31 FEDERAL COM 26H										
	NSL	NO									NO										
ing	SHL	SWSE 1263' FSL & 1	1453' FEL								SWSE 1263' FSL & 1453' FE	:L									
anr	PAD	SNDDNS_24S31E_6	5_5								SNDDNS_24S31E_6_5										
e Pl	BHL	NENE 20' FNL & 380	0' FEL								NENE 20' FNL & 295' FEL										
Ļac	HSU SIZE, ACRES	640									640										
Sur	POOL	COTTON DRAW; BONE SPRING									COTTON DRAW; BONE SPI	RING									
	TVD	8,687									8,634										
	TARGET FORMATION	BONE SPRING									BONE SPRING										
				1		ASE LINE	I	T			2 11		SUNDRY PLAN								
	3RA	Section	Hole Size (in.)	MD	TVD		Csg WT			Conn.	Section	Hole Size (in.)	MD	TVD		Csg WT (ppf)			Conn.		
	Š	Surface	14.75	886	886	10.75	45.5	J-55		BTC	Surface	14.75	886	886	10.75	45.5	J-55		BTC		
	<u>ā</u>	Int	9.875	8163	7962	7.625	26.4	L-80 HC		BTC	Int	9.875	8163	7889	7.625	26.4	L-80 HC		BTC		
	Ž.	Int2	6.75	10102	8687		20	P-110		SPRINT-SF	INTZ Drod	6.75	10102	8667	5.5	20	P-110		DWC/C LIT IS		
	CAS	Prod Liner	0.75	19193	8087	5.5	20	P-110	-	SPRINT-SF	Prod Liner	6.75	19193	8007	5.5	20	P-110		DWC/C-HT-IS		
	-	Lillei			ΔPD R	 ASE LINE					Linei			SLINE	I DRY PLAN						
	5	Section/Stage	Slurry	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess	тос	Placement	Description	Section/Stage	Slurry	Sacks		Density (lb/gal)	Fxcess	тос	Placement	Description		
	A A A	Surf	SURFACE- TAIL	741	1.33	14.8	100%	0	CIRCULATE	CLASS C+ ACCEL.	Surf	SURFACE- TAIL	741	1.33	14.8	100%	0	CIRCULATE	CLASS C+ ACCEL.		
	<u> </u>	Int/1	INTERMEDIATE 1S- TAIL	189	1.68	13.2	5%	6,752	CIRCULATE	CLASS C+ RET., DISPER.	Int	INTERMEDIATE 1S- TAIL	176	1.68	13.2	5%	6,851	CIRCULATE	CLASS C+ RET., DISPER.		
in g	<u> </u>	Int/2	INTERMEDIATE 2S- TAIL BH	1042	1.71	13.3	25%	0	BRADENHEAD	CLASS C+ ACCEL.	Int	INTERMEDIATE 2S- TAIL BH	1058	1.71	13.3	25%	0	BRADENHEAD	CLASS C+ ACCEL.		
Drill	Z.	Int2					1				Int2										
_	<u> </u>	Int2									Int2										
	ö	Prod	PRODUCTION- TAIL	653	1.84	13.3	25%	7,663	CIRCULATE	CLASS C+ RET.	Prod	PRODUCTION- TAIL	653	1.84	13.3	25%	7,663	CIRCULATE	CLASS C+ RET.		
					APD B	ASE LINE								SUNE	RY PLAN						
		BOP Break Tesing \		Υ							BOP Break Tesing Varianc		Υ								
	CES	5M Annular BOP V								5M Annular BOP Variance											
	AA	Bradenhead CBL V		Y							Bradenhead CBL Variance		Υ								
	ARI	Offline Cementing		Y							Offline Cementing Variance		Υ								
	>		r Clearance Variance	N							Production Annular Clears		Y	_							
		Flexible Choke Line									Flexible Choke Line Varian	ice		_							
		(Pilot Hole, Logs et	(C.)								(Pilot Hole, Logs etc.)										

Note- Only fill out what item is changing. The other cells can be left blank.

VERSION DATE 8/30/2024

	<b>Hole Size</b>						
Section	(in.)	MD (ft)	TVD (ft)	Csg OD (in)	Csg WT (ppf)	Grade	Conn.
Surface							
Int							
Int2							
Prod							
Liner							

Section	Stage	Slurry	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess	TOC	Placement
Surf								
Int								
Int								
Int2								
Int2								
Prod								

Description	

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

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 515450

#### **CONDITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	515450
	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.	12/5/2025