

<b>Well Name:</b> TOP SPOT 12_13 FEDERAL COM	<b>Well Location:</b> T22S / R31E / SEC 13 / SESE / 32.385676 / -103.726915	<b>County or Parish/State:</b> EDDY / NM
<b>Well Number:</b> 13H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM29233	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3001556985	<b>Operator:</b> OXY USA INCORPORATED	

**Notice of Intent**

**Sundry ID:** 2883003

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 11/17/2025

**Time Sundry Submitted:** 12:56

**Date proposed operation will begin:** 02/01/2026

**Procedure Description:** OXY USA Inc., respectfully requests to amend the subject AAPD to revise the drill plan for the pilot hole. \*THERE IS NO ADDITIONAL SURFACE DISTURBANCE RELATED TO THIS SUNDRY" Attached is the updated drill plan, directional plans, BOP Variances and APD Change Worksheet.

**NOI Attachments**

**Procedure Description**

- TOPSPOT12\_13FEDCOM13H\_VAM\_DWC\_C\_HT\_IS\_5.500in\_20ppf\_P110RY\_20251117125614.pdf
- TOPSPOT12\_13FEDCOM13H\_BOPBreakTestingVariance2025\_20251117125604.pdf
- TOPSPOT12\_13FEDCOM13H\_5MAAnnBOPVariance\_20251117125555.pdf
- TOPSPOT12\_13FEDCOM13H\_DirectPlan\_ST\_20251117125540.pdf
- TOPSPOT12\_13FEDCOM13H\_DirectPlan\_Pilot\_20251117125532.pdf
- TOPSPOT12\_13FEDCOM13H\_DrillPlan\_20251117125522.pdf
- TOPSPOT12\_13FEDCOM13H\_C102\_20251117125514.pdf
- TOPSPOT12\_13FEDCOM13H\_APDCHGSUNDRYWORKSHEET\_20251117125456.pdf

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<b>US Well Number:</b> 3001556985	<b>Operator:</b> OXY USA INCORPORATED	

**Conditions of Approval**

**Additional**

TOP\_SPOT\_12\_13\_FED\_COM\_13H\_\_\_12.25\_IN\_PILOT\_HOLE\_\_\_SUNDRY\_COA\_20260127071634.pdf

**Operator**

*I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a*

**Operator Electronic Signature:** MELISSA GUIDRY **Signed on:** NOV 17, 2025 12:56 PM

**Name:** OXY USA INCORPORATED

**Title:** Advisor Regulatory Sr.

**Street Address:** 5 GREENWAY PLAZA SUITE 110

**City:** HOUSTON **State:** TX

**Phone:** (713) 497-2481

**Email address:** MELISSA\_GUIDRY@OXY.COM

**Field**

**Representative Name:**

**Street Address:**

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

**Phone:**

**Email address:**

**BLM Point of Contact**

**BLM POC Name:** KEITH P IMMATTY **BLM POC Title:** ENGINEER

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

**Disposition:** Approved **Disposition Date:** 01/27/2026

**Signature:** KEITH IMMATTY

Form 3160-5  
(October 2024)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.	NMNM29233
6. If Indian, Allottee or Tribe Name	

<b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. TOP SPOT 12_13 FEDERAL COM/13H	
2. Name of Operator OXY USA INCORPORATED	9. API Well No. 3001556985	
3a. Address 5 GREENWAY PLAZA SUITE 110, HOUSTON, TX	3b. Phone No. (include area code) (713) 366-5716	10. Field and Pool or Exploratory Area BILBREY BASIN/BONE SPRING
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 13/T22S/R31E/NMP		11. Country or Parish, State EDDY/NM

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

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

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

OXY USA Inc., respectfully requests to amend the subject AAPD to revise the drill plan for the pilot hole.

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

Attached is the updated drill plan, directional plans, BOP Variances and APD Change Worksheet.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) MELISSA GUIDRY / Ph: (713) 497-2481	Title Advisor Regulatory Sr.
Signature (Electronic Submission)	Date 11/17/2025

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

Approved by KEITH P IMMATTY / Ph: (575) 988-4722 / Approved	Title ENGINEER	Date 01/27/2026
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office CARLSBAD

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

(Instructions on page 2)

## GENERAL INSTRUCTIONS

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

## SPECIFIC INSTRUCTIONS

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

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

## NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

## Additional Information

### Location of Well

0. SHL: SESE / 520 FSL / 1225 FEL / TWSP: 22S / RANGE: 31E / SECTION: 13 / LAT: 32.385676 / LONG: -103.726915 ( TVD: 0 feet, MD: 0 feet )

PPP: SESE / 100 FSL / 1194 FEL / TWSP: 22S / RANGE: 31E / SECTION: 13 / LAT: 32.384522 / LONG: -103.726815 ( TVD: 8978 feet, MD: 9410 feet )

PPP: SENE / 2640 FNL / 1193 FEL / TWSP: 22S / RANGE: 31E / SECTION: 12 / LAT: 32.406019 / LONG: -103.726806 ( TVD: 8978 feet, MD: 17061 feet )

BHL: NENE / 20 FNL / 1372 FEL / TWSP: 22S / RANGE: 31E / SECTION: 12 / LAT: 32.413219 / LONG: -103.726803 ( TVD: 8978 feet, MD: 19680 feet )

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b> OXY USA INCORPORATED
<b>WELL NAME &amp; NO.:</b> TOP SPOT 12 13 FED COM 13H
<b>LOCATION:</b> SEC13 T22S R31E-NMP
<b>COUNTY:</b> <input style="width: 80%;" type="text" value="Eddy County, New Mexico"/>

Create COAs

<b>H<sub>2</sub>S</b>	<b>Cave / Karst</b>	<b>Waste Prevention Rule</b>
<input style="width: 90%;" type="text" value="Present"/>	<input style="width: 90%;" type="text" value="Low"/>	<input style="width: 90%;" type="text" value="Waste Minimization Plan"/>
<b>Potash</b>	<b>R-111-Q Design</b>	
<input style="width: 90%;" type="text" value="Secretary"/>	<input style="width: 95%;" type="text"/>	
<b>Wellhead</b>	<b>Casing</b>	
<input style="width: 90%;" type="text" value="Multibowl"/>	<input style="width: 80%;" type="text" value="3-String Well"/>	
<input type="checkbox"/> Flex Hose	<input type="checkbox"/> Liner <input type="checkbox"/> Fluid Filled <input type="checkbox"/> Casing Clearance	
<input checked="" type="checkbox"/> Break Testing	<b>Cementing</b>	
	<input type="checkbox"/> DV Tool <input checked="" type="checkbox"/> Bradenhead <input type="checkbox"/> Echometer	
	<input checked="" type="checkbox"/> Offline Cement <input type="checkbox"/> Open Annulus <input checked="" type="checkbox"/> Pilot Hole	
<b>Special Requirements</b>		
<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM <input type="checkbox"/> Unit

**A. HYDROGEN SULFIDE**

A Hydrogen Sulfide (H<sub>2</sub>S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

**B. CASING**

1. The **13-3/8** inch surface casing shall be set at approximately **904** feet (a minimum of **70'** 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.
2. The minimum required fill of cement behind the **9-5/8** 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.
  - Pilot hole is required to have a plug at the bottom of the hole and across top of the Wolfcamp formation. Formation top plug to have a 10%/1000' excess.
    - **Bottom Plug: 12,200' to 12,000' minimum (200' plug)**
    - **Wolfcamp Top Plug: 11,744' TVD to 11,527' minimum (100' plug + 117' excess)**
      - \* **Proposal only brings plug up to 11,554'. Please review. Depths to be adjusted based on as drilled pilot hole. Combining plugs OK for single WOC and tag verification.**

If two plugs are set, the BLM is to be contacted (**575-361-2822 Eddy County**) 24 hours prior to the commencement of any plugging operations and when tagging of bottom plug, which must be a minimum of 200' in length. Operator can set one plug from bottom of pilot hole to kick-off point and save the WOC time for tagging the first plug.

**Note plug tops on subsequent drilling report.**

- Mud Requirement: Mud shall be placed between all or below plugs. Minimum consistency of plugging mud shall be obtained by mixing at a rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.
- Cement requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.
- Subsequent Plugging Reporting: Within 30 days after plugging work is completed to the BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs

placed, and the size and location (by depths) of casing left in the well. **Show date pilot hole was plugged and tagged.**

**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.

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.

- Operator shall run a CBL from TD of the **Intermediate 1** casing to tieback requirements 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 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. Operator shall use one of the approved methods for cement verification located in the **General Requirements, Section A.1**.
    - **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.

### 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 **10,000 (10M) psi** due to pilot hole, the intermediate casing shoe shall be **5000 (5M) psi**. **Variance is approved to use a 5000 (5M) annular which shall be tested to 3500 (3.5M) 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.
    - BOPE Break Testing is ONLY permitted for hole sections with 5M MASP or less.
    - If the MASP approaches 10% of the rated working pressure of a 5M system, the BOPE must be tested to 10M.
    - The break test should involve a shell test that includes testing the upper pipe rams as proposed.
    - Variance only pertains to the hole-sections in and shallower than the Wolfcamp formation. Break testing is NOT allowed when planning to penetrate the Penn group.
    - While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle in accordance with API STD 53.
    - Any well control event while drilling require notification to the BLM Petroleum Engineer.
    - A full BOPE test is required prior to drilling the first intermediate section.
    - If a hole section tends to show more background gas than normal, please notify BLM Engineer prior to proceeding with break testing on the next well.
    - The BLM PET is to be contacted 4 hours prior to BOPE tests.
      - Eddy County Petroleum Engineering Inspection Staff: (575) 361-2822
      - Lea County Petroleum Engineering Inspection Staff: (575) 689-5981
    - As a minimum, a full BOPE test shall be performed at 21-day intervals.
    - In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.

#### D. SPECIAL REQUIREMENT(S)

##### Communitization Agreement:

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization

Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

### **Offline Cementing**

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

## 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 Lea County Petroleum Engineering Inspection Staff:

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

### Contact Eddy County Petroleum Engineering Inspection Staff:

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator 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 swell.
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 always be operational 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 doghouse 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 & CEMENT

1. The current acceptable methods of cement verification are as follows:
  - i. Observing cement circulated to surface,
  - ii. Cement Bond Log (CBL),

- iii. Temperature log within 8-10 hours after completing the cement job,
  - iv. Echometer (if a second-stage bradenhead is being utilized and operator was granted approval prior to operations.)
2. 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.
3. 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.
4. 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.
5. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Well specific cement details must be onsite prior to pumping the cement for each casing string.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
8. If hard band drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
9. Whenever a casing string is cemented in the R-111-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. (This 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 -our 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 because 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.

KEITH IMMATTY 1/27/2026

## BOP Break Testing Request

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

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

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

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

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

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

### **Background**

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

### **Supporting Rationale**

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

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

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

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

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

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

### Procedures

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

### Notes:

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

## **Summary**

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

## 5M Annular BOP Variance Request

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

### Oxy Well Control Plan

#### A. Component and Preventer Compatibility Table

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

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

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

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

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

#### B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the Bottom Hole Assembly (BHA) through the Blowout Preventers (BOP). The pressure at which control is swapped from the annular to another compatible ram will occur when the anticipated pressure is approaching or envisioned to exceed 70% of the 5M annular Rated Working Pressure (RWP) or 3500 PSI.

#### General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. The Hydraulic Control Remote (HCR) valve and choke will already be in the closed position).
5. Confirm shut-in
6. Notify tool pusher/company representative
7. Read and record the following:
  - a. SIDPP and SICP
  - b. Pit gain
  - c. Time
8. Regroup and identify forward plan
9. If pressure has built or expected to reach 70% of the annular RWP during kill operations, crew will reconfirm spacing and swap to the upper pipe ram

#### General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position)
5. Confirm shut-in
6. Notify tool pusher/company representative
7. Read and record the following
  - a. SIDPP and SICP
  - b. Pit gain
  - c. Time
  - d. Regroup and identify forward plan
  - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram

#### General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position).
5. Confirm shut-in
6. Notify tool pusher/company representative
7. Read and record the following:
  - a. SIDPP and SICP
  - b. Pit gain
  - c. Time
  - d. Regroup and identify forward plan.
  - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams or BSR. (The HCR and choke will already be in the closed position)
3. Confirm shut-in
4. Notify tool pusher/company representative
5. Read and record the following:
  - a. SICP
  - b. Pit gain
  - c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drill pipe thru the stack.
  - a. Perform flow check, if flowing:
  - b. Sound alarm (alert crew)
  - c. Stab full opening safety valve and close
  - d. Space out drill string with tool joint just beneath the upper pipe ram
  - e. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
  - f. Confirm shut-in
  - g. Notify tool pusher/company representative
  - h. Read and record the following:
    - i. SIDPP and SICP
    - ii. Pit gain
    - iii. Time
    - iv. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
  - a. Sound alarm (alert crew)
  - b. Stab crossover and full opening safety valve and close
  - c. Space out drill string with upset just beneath the compatible pipe ram
  - d. Shut-in using compatible pipe ram. (The HCR and choke will already be in the closed position.)
  - e. Confirm shut-in
  - f. Notify tool pusher/company representative
  - g. Read and record the following:
    - i. SIDPP and SICP
    - ii. Pit gain
    - iii. Time
    - iv. Regroup and identify forward plan
3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.

- a. Sound alarm (alert crew)
- b. If possible to pick up high enough, pull string clear of the stack and follow “Open Hole” scenario
- c. If impossible to pick up high enough to pull the string clear of the stack
- d. Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close
- e. Space out drill string with tool joint just beneath the upper pipe ram
- f. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
- g. Confirm shut-in
- h. Notify tool pusher/company representative
- i. Read and record the following:
  - i. SIDPP and SICP
  - ii. Pit gain
  - iii. Time
- j. Regroup and identify forward plan

# **OXY**

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

**Top Spot 12\_13 Fed Com**

**Top Spot 12\_13 Fed Com 13H**

**Wellbore #2**

**Plan: Permitting Plan**

## **Standard Planning Report**

**30 October, 2025**

## OXY Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Top Spot 12_13 Fed Com 13H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3608.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3608.50ft
<b>Site:</b>	Top Spot 12_13 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Top Spot 12_13 Fed Com 13H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #2		
<b>Design:</b>	Permitting Plan		

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

<b>Site</b> Top Spot 12_13 Fed Com			
<b>Site Position:</b>		<b>Northing:</b>	514,494.39 usft
<b>From:</b>	Map	<b>Easting:</b>	725,461.56 usft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in
		<b>Latitude:</b>	32.413000
		<b>Longitude:</b>	-103.736677

<b>Well</b> Top Spot 12_13 Fed Com 13H			
<b>Well Position</b>	+N/-S	0.00 ft	<b>Northing:</b>
	+E/-W	0.00 ft	504,571.18 usf
			<b>Latitude:</b>
			32.385676
<b>Position Uncertainty</b>	6.00 ft	<b>Wellhead Elevation:</b>	ft
<b>Grid Convergence:</b>	0.32 °	<b>Longitude:</b>	-103.726915
		<b>Ground Level:</b>	3,583.50 ft

<b>Wellbore</b> Wellbore #2					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	10/30/2025	6.23	59.93	47,341.00000000

<b>Design</b> Permitting Plan				
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	8,589.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	358.86

<b>Plan Survey Tool Program</b>		<b>Date</b> 10/30/2025		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	8,589.00	19,441.57	Permitting Plan (Wellbore #2)	SQC_C705Mb_MWD+IFR1 MWD+IFR1+Sag+FDIR

<b>Plan Sections</b>										
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
8,589.00	10.00	197.05	8,553.53	-401.59	-123.19	0.00	0.00	0.00	0.00	
9,134.59	45.00	358.70	9,053.44	-241.76	-142.98	10.00	6.42	29.63	164.14	
9,584.67	90.00	359.70	9,221.29	163.41	-148.04	10.00	10.00	0.22	1.41	
19,441.57	90.00	359.70	9,221.50	10,020.18	-200.18	0.00	0.00	0.00	0.00	PBHL (Top Spot)

# OXY

## Planning Report

<b>Database:</b>	HOSPSP	<b>Local Co-ordinate Reference:</b>	Well Top Spot 12_13 Fed Com 13H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3608.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3608.50ft
<b>Site:</b>	Top Spot 12_13 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Top Spot 12_13 Fed Com 13H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #2		
<b>Design:</b>	Permitting Plan		

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

# OXY

## Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Top Spot 12_13 Fed Com 13H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3608.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3608.50ft
<b>Site:</b>	Top Spot 12_13 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Top Spot 12_13 Fed Com 13H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #2		
<b>Design:</b>	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	1.60	197.05	5,999.99	-1.07	-0.33	-1.06	1.60	1.60	0.00
6,100.00	3.60	197.05	6,099.88	-5.40	-1.66	-5.37	2.00	2.00	0.00
6,200.00	5.60	197.05	6,199.55	-13.07	-4.01	-12.99	2.00	2.00	0.00
6,300.00	7.60	197.05	6,298.89	-24.06	-7.38	-23.91	2.00	2.00	0.00
6,400.00	9.60	197.05	6,397.76	-38.35	-11.77	-38.11	2.00	2.00	0.00
6,500.00	10.00	197.05	6,496.25	-54.89	-16.84	-54.54	0.40	0.40	0.00
6,600.00	10.00	197.05	6,594.73	-71.48	-21.93	-71.03	0.00	0.00	0.00
6,700.00	10.00	197.05	6,693.21	-88.08	-27.02	-87.52	0.00	0.00	0.00
6,800.00	10.00	197.05	6,791.70	-104.68	-32.11	-104.01	0.00	0.00	0.00
6,900.00	10.00	197.05	6,890.18	-121.27	-37.20	-120.51	0.00	0.00	0.00
7,000.00	10.00	197.05	6,988.66	-137.87	-42.29	-137.00	0.00	0.00	0.00
7,100.00	10.00	197.05	7,087.14	-154.47	-47.38	-153.49	0.00	0.00	0.00
7,200.00	10.00	197.05	7,185.62	-171.06	-52.48	-169.98	0.00	0.00	0.00
7,300.00	10.00	197.05	7,284.10	-187.66	-57.57	-186.47	0.00	0.00	0.00
7,400.00	10.00	197.05	7,382.59	-204.26	-62.66	-202.97	0.00	0.00	0.00
7,500.00	10.00	197.05	7,481.07	-220.85	-67.75	-219.46	0.00	0.00	0.00
7,600.00	10.00	197.05	7,579.55	-237.45	-72.84	-235.95	0.00	0.00	0.00
7,700.00	10.00	197.05	7,678.03	-254.05	-77.93	-252.44	0.00	0.00	0.00
7,800.00	10.00	197.05	7,776.51	-270.64	-83.02	-268.93	0.00	0.00	0.00
7,900.00	10.00	197.05	7,874.99	-287.24	-88.11	-285.42	0.00	0.00	0.00
8,000.00	10.00	197.05	7,973.47	-303.84	-93.21	-301.92	0.00	0.00	0.00
8,100.00	10.00	197.05	8,071.96	-320.44	-98.30	-318.41	0.00	0.00	0.00
8,200.00	10.00	197.05	8,170.44	-337.03	-103.39	-334.90	0.00	0.00	0.00
8,300.00	10.00	197.05	8,268.92	-353.63	-108.48	-351.39	0.00	0.00	0.00
8,400.00	10.00	197.05	8,367.40	-370.23	-113.57	-367.88	0.00	0.00	0.00
8,500.00	10.00	197.05	8,465.88	-386.82	-118.66	-384.38	0.00	0.00	0.00
8,589.00	10.00	197.05	8,553.53	-401.59	-123.19	-399.05	0.00	0.00	0.00
<b>KOP, ST 10°/100'</b>									
8,600.00	8.94	198.99	8,564.38	-403.32	-123.75	-400.76	10.00	-9.57	17.58
8,700.00	3.09	299.93	8,663.95	-409.33	-128.63	-406.68	10.00	-5.85	100.94
8,800.00	11.79	348.27	8,763.08	-397.96	-133.06	-395.22	10.00	8.70	48.34
8,900.00	21.64	354.55	8,858.74	-369.53	-136.90	-366.72	10.00	9.85	6.28
9,000.00	31.58	356.99	8,948.04	-324.91	-140.03	-322.05	10.00	9.94	2.44
9,100.00	41.55	358.35	9,028.26	-265.46	-142.37	-262.56	10.00	9.97	1.36
9,134.59	45.00	358.70	9,053.44	-241.76	-142.98	-238.85	10.00	9.98	1.01
<b>Continue 10°/100'</b>									
9,200.00	51.54	358.91	9,096.95	-192.98	-143.99	-190.07	10.00	10.00	0.31
9,300.00	61.54	359.16	9,152.02	-109.68	-145.39	-106.75	10.00	10.00	0.25
9,400.00	71.53	359.36	9,191.79	-18.07	-146.57	-15.14	10.00	10.00	0.21
9,500.00	81.53	359.55	9,215.05	79.05	-147.49	81.98	10.00	10.00	0.18
9,584.67	90.00	359.70	9,221.29	163.41	-148.04	166.34	10.00	10.00	0.18
<b>Landing Point</b>									
9,600.00	90.00	359.70	9,221.29	178.74	-148.12	181.67	0.00	0.00	0.00
9,700.00	90.00	359.70	9,221.29	278.74	-148.65	281.66	0.00	0.00	0.00
9,800.00	90.00	359.70	9,221.30	378.74	-149.18	381.65	0.00	0.00	0.00
9,900.00	90.00	359.70	9,221.30	478.74	-149.71	481.63	0.00	0.00	0.00
10,000.00	90.00	359.70	9,221.30	578.74	-150.24	581.62	0.00	0.00	0.00
10,100.00	90.00	359.70	9,221.30	678.74	-150.77	681.61	0.00	0.00	0.00
10,200.00	90.00	359.70	9,221.30	778.74	-151.30	781.60	0.00	0.00	0.00
10,300.00	90.00	359.70	9,221.31	878.73	-151.82	881.59	0.00	0.00	0.00

# OXY

## Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Top Spot 12_13 Fed Com 13H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3608.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3608.50ft
<b>Site:</b>	Top Spot 12_13 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Top Spot 12_13 Fed Com 13H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #2		
<b>Design:</b>	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
10,400.00	90.00	359.70	9,221.31	978.73	-152.35	981.58	0.00	0.00	0.00	
10,500.00	90.00	359.70	9,221.31	1,078.73	-152.88	1,081.57	0.00	0.00	0.00	
10,600.00	90.00	359.70	9,221.31	1,178.73	-153.41	1,181.56	0.00	0.00	0.00	
10,700.00	90.00	359.70	9,221.32	1,278.73	-153.94	1,281.55	0.00	0.00	0.00	
10,800.00	90.00	359.70	9,221.32	1,378.73	-154.47	1,381.54	0.00	0.00	0.00	
10,900.00	90.00	359.70	9,221.32	1,478.73	-155.00	1,481.53	0.00	0.00	0.00	
11,000.00	90.00	359.70	9,221.32	1,578.72	-155.53	1,581.52	0.00	0.00	0.00	
11,100.00	90.00	359.70	9,221.32	1,678.72	-156.06	1,681.51	0.00	0.00	0.00	
11,200.00	90.00	359.70	9,221.33	1,778.72	-156.59	1,781.49	0.00	0.00	0.00	
11,300.00	90.00	359.70	9,221.33	1,878.72	-157.11	1,881.48	0.00	0.00	0.00	
11,400.00	90.00	359.70	9,221.33	1,978.72	-157.64	1,981.47	0.00	0.00	0.00	
11,500.00	90.00	359.70	9,221.33	2,078.72	-158.17	2,081.46	0.00	0.00	0.00	
11,600.00	90.00	359.70	9,221.33	2,178.72	-158.70	2,181.45	0.00	0.00	0.00	
11,700.00	90.00	359.70	9,221.34	2,278.71	-159.23	2,281.44	0.00	0.00	0.00	
11,800.00	90.00	359.70	9,221.34	2,378.71	-159.76	2,381.43	0.00	0.00	0.00	
11,900.00	90.00	359.70	9,221.34	2,478.71	-160.29	2,481.42	0.00	0.00	0.00	
12,000.00	90.00	359.70	9,221.34	2,578.71	-160.82	2,581.41	0.00	0.00	0.00	
12,100.00	90.00	359.70	9,221.34	2,678.71	-161.35	2,681.40	0.00	0.00	0.00	
12,200.00	90.00	359.70	9,221.35	2,778.71	-161.87	2,781.39	0.00	0.00	0.00	
12,300.00	90.00	359.70	9,221.35	2,878.71	-162.40	2,881.38	0.00	0.00	0.00	
12,400.00	90.00	359.70	9,221.35	2,978.71	-162.93	2,981.37	0.00	0.00	0.00	
12,500.00	90.00	359.70	9,221.35	3,078.70	-163.46	3,081.35	0.00	0.00	0.00	
12,600.00	90.00	359.70	9,221.36	3,178.70	-163.99	3,181.34	0.00	0.00	0.00	
12,700.00	90.00	359.70	9,221.36	3,278.70	-164.52	3,281.33	0.00	0.00	0.00	
12,800.00	90.00	359.70	9,221.36	3,378.70	-165.05	3,381.32	0.00	0.00	0.00	
12,900.00	90.00	359.70	9,221.36	3,478.70	-165.58	3,481.31	0.00	0.00	0.00	
13,000.00	90.00	359.70	9,221.36	3,578.70	-166.11	3,581.30	0.00	0.00	0.00	
13,100.00	90.00	359.70	9,221.37	3,678.70	-166.64	3,681.29	0.00	0.00	0.00	
13,200.00	90.00	359.70	9,221.37	3,778.69	-167.16	3,781.28	0.00	0.00	0.00	
13,300.00	90.00	359.70	9,221.37	3,878.69	-167.69	3,881.27	0.00	0.00	0.00	
13,400.00	90.00	359.70	9,221.37	3,978.69	-168.22	3,981.26	0.00	0.00	0.00	
13,500.00	90.00	359.70	9,221.37	4,078.69	-168.75	4,081.25	0.00	0.00	0.00	
13,600.00	90.00	359.70	9,221.38	4,178.69	-169.28	4,181.24	0.00	0.00	0.00	
13,700.00	90.00	359.70	9,221.38	4,278.69	-169.81	4,281.23	0.00	0.00	0.00	
13,800.00	90.00	359.70	9,221.38	4,378.69	-170.34	4,381.21	0.00	0.00	0.00	
13,900.00	90.00	359.70	9,221.38	4,478.68	-170.87	4,481.20	0.00	0.00	0.00	
14,000.00	90.00	359.70	9,221.39	4,578.68	-171.40	4,581.19	0.00	0.00	0.00	
14,100.00	90.00	359.70	9,221.39	4,678.68	-171.93	4,681.18	0.00	0.00	0.00	
14,200.00	90.00	359.70	9,221.39	4,778.68	-172.45	4,781.17	0.00	0.00	0.00	
14,300.00	90.00	359.70	9,221.39	4,878.68	-172.98	4,881.16	0.00	0.00	0.00	
14,400.00	90.00	359.70	9,221.39	4,978.68	-173.51	4,981.15	0.00	0.00	0.00	
14,500.00	90.00	359.70	9,221.40	5,078.68	-174.04	5,081.14	0.00	0.00	0.00	
14,600.00	90.00	359.70	9,221.40	5,178.67	-174.57	5,181.13	0.00	0.00	0.00	
14,700.00	90.00	359.70	9,221.40	5,278.67	-175.10	5,281.12	0.00	0.00	0.00	
14,800.00	90.00	359.70	9,221.40	5,378.67	-175.63	5,381.11	0.00	0.00	0.00	
14,900.00	90.00	359.70	9,221.40	5,478.67	-176.16	5,481.10	0.00	0.00	0.00	
15,000.00	90.00	359.70	9,221.41	5,578.67	-176.69	5,581.08	0.00	0.00	0.00	
15,100.00	90.00	359.70	9,221.41	5,678.67	-177.22	5,681.07	0.00	0.00	0.00	
15,200.00	90.00	359.70	9,221.41	5,778.67	-177.74	5,781.06	0.00	0.00	0.00	
15,300.00	90.00	359.70	9,221.41	5,878.66	-178.27	5,881.05	0.00	0.00	0.00	
15,400.00	90.00	359.70	9,221.41	5,978.66	-178.80	5,981.04	0.00	0.00	0.00	
15,500.00	90.00	359.70	9,221.42	6,078.66	-179.33	6,081.03	0.00	0.00	0.00	
15,600.00	90.00	359.70	9,221.42	6,178.66	-179.86	6,181.02	0.00	0.00	0.00	
15,700.00	90.00	359.70	9,221.42	6,278.66	-180.39	6,281.01	0.00	0.00	0.00	
15,800.00	90.00	359.70	9,221.42	6,378.66	-180.92	6,381.00	0.00	0.00	0.00	

## OXY Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Top Spot 12_13 Fed Com 13H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3608.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3608.50ft
<b>Site:</b>	Top Spot 12_13 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Top Spot 12_13 Fed Com 13H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #2		
<b>Design:</b>	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,900.00	90.00	359.70	9,221.43	6,478.66	-181.45	6,480.99	0.00	0.00	0.00
16,000.00	90.00	359.70	9,221.43	6,578.65	-181.98	6,580.98	0.00	0.00	0.00
16,100.00	90.00	359.70	9,221.43	6,678.65	-182.50	6,680.97	0.00	0.00	0.00
16,200.00	90.00	359.70	9,221.43	6,778.65	-183.03	6,780.96	0.00	0.00	0.00
16,300.00	90.00	359.70	9,221.43	6,878.65	-183.56	6,880.94	0.00	0.00	0.00
16,400.00	90.00	359.70	9,221.44	6,978.65	-184.09	6,980.93	0.00	0.00	0.00
16,500.00	90.00	359.70	9,221.44	7,078.65	-184.62	7,080.92	0.00	0.00	0.00
16,600.00	90.00	359.70	9,221.44	7,178.65	-185.15	7,180.91	0.00	0.00	0.00
16,700.00	90.00	359.70	9,221.44	7,278.65	-185.68	7,280.90	0.00	0.00	0.00
16,800.00	90.00	359.70	9,221.44	7,378.64	-186.21	7,380.89	0.00	0.00	0.00
16,823.36	90.00	359.70	9,221.44	7,402.00	-186.33	7,404.25	0.00	0.00	0.00
<b>LC Cross</b>									
16,900.00	90.00	359.70	9,221.45	7,478.64	-186.74	7,480.88	0.00	0.00	0.00
17,000.00	90.00	359.70	9,221.45	7,578.64	-187.27	7,580.87	0.00	0.00	0.00
17,100.00	90.00	359.70	9,221.45	7,678.64	-187.79	7,680.86	0.00	0.00	0.00
17,200.00	90.00	359.70	9,221.45	7,778.64	-188.32	7,780.85	0.00	0.00	0.00
17,300.00	90.00	359.70	9,221.45	7,878.64	-188.85	7,880.84	0.00	0.00	0.00
17,400.00	90.00	359.70	9,221.46	7,978.64	-189.38	7,980.83	0.00	0.00	0.00
17,500.00	90.00	359.70	9,221.46	8,078.63	-189.91	8,080.82	0.00	0.00	0.00
17,600.00	90.00	359.70	9,221.46	8,178.63	-190.44	8,180.80	0.00	0.00	0.00
17,700.00	90.00	359.70	9,221.46	8,278.63	-190.97	8,280.79	0.00	0.00	0.00
17,800.00	90.00	359.70	9,221.47	8,378.63	-191.50	8,380.78	0.00	0.00	0.00
17,900.00	90.00	359.70	9,221.47	8,478.63	-192.03	8,480.77	0.00	0.00	0.00
18,000.00	90.00	359.70	9,221.47	8,578.63	-192.56	8,580.76	0.00	0.00	0.00
18,100.00	90.00	359.70	9,221.47	8,678.63	-193.08	8,680.75	0.00	0.00	0.00
18,200.00	90.00	359.70	9,221.47	8,778.62	-193.61	8,780.74	0.00	0.00	0.00
18,300.00	90.00	359.70	9,221.48	8,878.62	-194.14	8,880.73	0.00	0.00	0.00
18,400.00	90.00	359.70	9,221.48	8,978.62	-194.67	8,980.72	0.00	0.00	0.00
18,500.00	90.00	359.70	9,221.48	9,078.62	-195.20	9,080.71	0.00	0.00	0.00
18,600.00	90.00	359.70	9,221.48	9,178.62	-195.73	9,180.70	0.00	0.00	0.00
18,700.00	90.00	359.70	9,221.48	9,278.62	-196.26	9,280.69	0.00	0.00	0.00
18,800.00	90.00	359.70	9,221.49	9,378.62	-196.79	9,380.68	0.00	0.00	0.00
18,900.00	90.00	359.70	9,221.49	9,478.61	-197.32	9,480.66	0.00	0.00	0.00
19,000.00	90.00	359.70	9,221.49	9,578.61	-197.84	9,580.65	0.00	0.00	0.00
19,100.00	90.00	359.70	9,221.49	9,678.61	-198.37	9,680.64	0.00	0.00	0.00
19,200.00	90.00	359.70	9,221.50	9,778.61	-198.90	9,780.63	0.00	0.00	0.00
19,300.00	90.00	359.70	9,221.50	9,878.61	-199.43	9,880.62	0.00	0.00	0.00
19,400.00	90.00	359.70	9,221.50	9,978.61	-199.96	9,980.61	0.00	0.00	0.00
19,441.57	90.00	359.70	9,221.50	10,020.18	-200.18	10,022.18	0.00	0.00	0.00
<b>TD at 19441.57' MD</b>									

**OXY**  
Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Top Spot 12_13 Fed Com 13H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3608.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3608.50ft
<b>Site:</b>	Top Spot 12_13 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Top Spot 12_13 Fed Com 13H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #2		
<b>Design:</b>	Permitting Plan		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Top Spot 12_13 - hit/miss target - Shape - plan misses target center by 492.23ft at 0.10ft MD (0.10 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.10	-470.58	-144.36	504,100.62	728,385.93	32.384385	-103.727392
PBHL (Top Spot - plan hits target center - Point	0.00	0.00	9,221.50	10,020.18	-200.18	514,590.83	728,330.11	32.413220	-103.727380
FTP (Top Spot 12_13 - plan misses target center by 245.41ft at 9134.43ft MD (9053.33 TVD, -241.87 N, -142.97 E) - Point	0.00	0.00	9,221.50	-420.59	-144.64	504,150.61	728,385.65	32.384523	-103.727392

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,589.00	8,553.53	-401.59	-123.19	KOP, ST 10°/100'
9,134.59	9,053.44	-241.76	-142.98	Continue 10°/100'
9,584.67	9,221.29	163.41	-148.04	Landing Point
16,823.36	9,221.44	7,402.00	-186.33	LC Cross
19,441.57	9,221.50	10,020.18	-200.18	TD at 19441.57' MD

# **OXY**

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

**Top Spot 12\_13 Fed Com**

**Top Spot 12\_13 Fed Com 13H**

**ORIG HOLE**

**Plan: Permitting Plan**

## **Standard Planning Report**

**30 October, 2025**

# OXY Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Top Spot 12_13 Fed Com 13H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3608.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3608.50ft
<b>Site:</b>	Top Spot 12_13 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Top Spot 12_13 Fed Com 13H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIG HOLE		
<b>Design:</b>	Permitting Plan		

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

<b>Site</b> Top Spot 12_13 Fed Com			
<b>Site Position:</b>		<b>Northing:</b>	514,494.39 usft
<b>From:</b>	Map	<b>Easting:</b>	725,461.56 usft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in
		<b>Latitude:</b>	32.413000
		<b>Longitude:</b>	-103.736677

<b>Well</b> Top Spot 12_13 Fed Com 13H						
<b>Well Position</b>	+N/-S	0.00 ft	<b>Northing:</b>	504,571.18 usf	<b>Latitude:</b>	32.385676
	+E/-W	0.00 ft	<b>Easting:</b>	728,530.28 usf	<b>Longitude:</b>	-103.726915
<b>Position Uncertainty</b>		6.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	3,583.50 ft
<b>Grid Convergence:</b>		0.32 °				

<b>Wellbore</b> ORIG HOLE					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	7/5/2024	6.33	59.97	47,512.40000000

<b>Design</b> Permitting Plan					
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	197.05	

<b>Plan Survey Tool Program</b>		<b>Date</b> 10/30/2025			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	13,540.04 Permitting Plan (ORIG HOLE)	SQC_C705Mb_MWD+IFR1	MWD+IFR1+Sag+FDIR	

<b>Plan Sections</b>										
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	
5,920.00	0.00	0.00	5,920.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,419.86	10.00	197.05	6,417.33	-41.59	-12.76	2.00	2.00	0.00	197.05	
8,670.60	10.00	197.05	8,633.89	-415.14	-127.35	0.00	0.00	0.00	0.00	
9,337.08	0.00	0.00	9,297.00	-470.58	-144.36	1.50	-1.50	0.00	180.00	
13,540.08	0.00	0.00	13,500.00	-470.58	-144.36	0.00	0.00	0.00	0.00	

# OXY

## Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Top Spot 12_13 Fed Com 13H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3608.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3608.50ft
<b>Site:</b>	Top Spot 12_13 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Top Spot 12_13 Fed Com 13H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIG HOLE		
<b>Design:</b>	Permitting Plan		

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

# OXY

## Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Top Spot 12_13 Fed Com 13H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3608.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3608.50ft
<b>Site:</b>	Top Spot 12_13 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Top Spot 12_13 Fed Com 13H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIG HOLE		
<b>Design:</b>	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,920.00	0.00	0.00	5,920.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Build 2°/100'</b>									
6,000.00	1.60	197.05	5,999.99	-1.07	-0.33	1.12	2.00	2.00	0.00
6,100.00	3.60	197.05	6,099.88	-5.40	-1.66	5.65	2.00	2.00	0.00
6,200.00	5.60	197.05	6,199.55	-13.07	-4.01	13.67	2.00	2.00	0.00
6,300.00	7.60	197.05	6,298.89	-24.06	-7.38	25.17	2.00	2.00	0.00
6,400.00	9.60	197.05	6,397.76	-38.35	-11.77	40.12	2.00	2.00	0.00
6,419.86	10.00	197.05	6,417.33	-41.59	-12.76	43.50	2.00	2.00	0.00
<b>Hold 10° Tangent</b>									
6,500.00	10.00	197.05	6,496.25	-54.89	-16.84	57.41	0.00	0.00	0.00
6,600.00	10.00	197.05	6,594.73	-71.48	-21.93	74.77	0.00	0.00	0.00
6,700.00	10.00	197.05	6,693.21	-88.08	-27.02	92.13	0.00	0.00	0.00
6,800.00	10.00	197.05	6,791.70	-104.68	-32.11	109.49	0.00	0.00	0.00
6,900.00	10.00	197.05	6,890.18	-121.27	-37.20	126.85	0.00	0.00	0.00
7,000.00	10.00	197.05	6,988.66	-137.87	-42.29	144.21	0.00	0.00	0.00
7,100.00	10.00	197.05	7,087.14	-154.47	-47.38	161.57	0.00	0.00	0.00
7,200.00	10.00	197.05	7,185.62	-171.06	-52.48	178.93	0.00	0.00	0.00
7,300.00	10.00	197.05	7,284.10	-187.66	-57.57	196.29	0.00	0.00	0.00
7,400.00	10.00	197.05	7,382.59	-204.26	-62.66	213.65	0.00	0.00	0.00
7,500.00	10.00	197.05	7,481.07	-220.85	-67.75	231.01	0.00	0.00	0.00
7,600.00	10.00	197.05	7,579.55	-237.45	-72.84	248.37	0.00	0.00	0.00
7,700.00	10.00	197.05	7,678.03	-254.05	-77.93	265.73	0.00	0.00	0.00
7,800.00	10.00	197.05	7,776.51	-270.64	-83.02	283.09	0.00	0.00	0.00
7,900.00	10.00	197.05	7,874.99	-287.24	-88.11	300.45	0.00	0.00	0.00
8,000.00	10.00	197.05	7,973.47	-303.84	-93.21	317.81	0.00	0.00	0.00
8,100.00	10.00	197.05	8,071.96	-320.44	-98.30	335.17	0.00	0.00	0.00
8,200.00	10.00	197.05	8,170.44	-337.03	-103.39	352.53	0.00	0.00	0.00
8,300.00	10.00	197.05	8,268.92	-353.63	-108.48	369.89	0.00	0.00	0.00
8,400.00	10.00	197.05	8,367.40	-370.23	-113.57	387.25	0.00	0.00	0.00
8,500.00	10.00	197.05	8,465.88	-386.82	-118.66	404.61	0.00	0.00	0.00
8,600.00	10.00	197.05	8,564.36	-403.42	-123.75	421.97	0.00	0.00	0.00
8,670.60	10.00	197.05	8,633.89	-415.14	-127.35	434.23	0.00	0.00	0.00
<b>Drop 1.5°/100'</b>									
8,700.00	9.56	197.05	8,662.87	-419.91	-128.81	439.22	1.50	-1.50	0.00
8,800.00	8.06	197.05	8,761.68	-434.55	-133.30	454.53	1.50	-1.50	0.00
8,900.00	6.56	197.05	8,860.87	-446.70	-137.03	467.25	1.50	-1.50	0.00
9,000.00	5.06	197.05	8,960.35	-456.37	-140.00	477.36	1.50	-1.50	0.00
9,100.00	3.56	197.05	9,060.07	-463.55	-142.20	484.87	1.50	-1.50	0.00
9,200.00	2.06	197.05	9,159.95	-468.23	-143.64	489.77	1.50	-1.50	0.00
9,300.00	0.56	197.05	9,259.92	-470.41	-144.30	492.05	1.50	-1.50	0.00
9,337.08	0.00	0.00	9,297.00	-470.58	-144.36	492.23	1.50	-1.50	0.00
<b>Hold Vertical</b>									
9,400.00	0.00	0.00	9,359.92	-470.58	-144.36	492.23	0.00	0.00	0.00
9,500.00	0.00	0.00	9,459.92	-470.58	-144.36	492.23	0.00	0.00	0.00
9,600.00	0.00	0.00	9,559.92	-470.58	-144.36	492.23	0.00	0.00	0.00
9,700.00	0.00	0.00	9,659.92	-470.58	-144.36	492.23	0.00	0.00	0.00
9,800.00	0.00	0.00	9,759.92	-470.58	-144.36	492.23	0.00	0.00	0.00
9,900.00	0.00	0.00	9,859.92	-470.58	-144.36	492.23	0.00	0.00	0.00
10,000.00	0.00	0.00	9,959.92	-470.58	-144.36	492.23	0.00	0.00	0.00
10,100.00	0.00	0.00	10,059.92	-470.58	-144.36	492.23	0.00	0.00	0.00

## OXY Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Top Spot 12_13 Fed Com 13H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3608.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3608.50ft
<b>Site:</b>	Top Spot 12_13 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Top Spot 12_13 Fed Com 13H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIG HOLE		
<b>Design:</b>	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,200.00	0.00	0.00	10,159.92	-470.58	-144.36	492.23	0.00	0.00	0.00
10,300.00	0.00	0.00	10,259.92	-470.58	-144.36	492.23	0.00	0.00	0.00
10,400.00	0.00	0.00	10,359.92	-470.58	-144.36	492.23	0.00	0.00	0.00
10,500.00	0.00	0.00	10,459.92	-470.58	-144.36	492.23	0.00	0.00	0.00
10,600.00	0.00	0.00	10,559.92	-470.58	-144.36	492.23	0.00	0.00	0.00
10,700.00	0.00	0.00	10,659.92	-470.58	-144.36	492.23	0.00	0.00	0.00
10,800.00	0.00	0.00	10,759.92	-470.58	-144.36	492.23	0.00	0.00	0.00
10,900.00	0.00	0.00	10,859.92	-470.58	-144.36	492.23	0.00	0.00	0.00
11,000.00	0.00	0.00	10,959.92	-470.58	-144.36	492.23	0.00	0.00	0.00
11,100.00	0.00	0.00	11,059.92	-470.58	-144.36	492.23	0.00	0.00	0.00
11,200.00	0.00	0.00	11,159.92	-470.58	-144.36	492.23	0.00	0.00	0.00
11,300.00	0.00	0.00	11,259.92	-470.58	-144.36	492.23	0.00	0.00	0.00
11,400.00	0.00	0.00	11,359.92	-470.58	-144.36	492.23	0.00	0.00	0.00
11,500.00	0.00	0.00	11,459.92	-470.58	-144.36	492.23	0.00	0.00	0.00
11,600.00	0.00	0.00	11,559.92	-470.58	-144.36	492.23	0.00	0.00	0.00
11,700.00	0.00	0.00	11,659.92	-470.58	-144.36	492.23	0.00	0.00	0.00
11,800.00	0.00	0.00	11,759.92	-470.58	-144.36	492.23	0.00	0.00	0.00
11,900.00	0.00	0.00	11,859.92	-470.58	-144.36	492.23	0.00	0.00	0.00
12,000.00	0.00	0.00	11,959.92	-470.58	-144.36	492.23	0.00	0.00	0.00
12,100.00	0.00	0.00	12,059.92	-470.58	-144.36	492.23	0.00	0.00	0.00
12,200.00	0.00	0.00	12,159.92	-470.58	-144.36	492.23	0.00	0.00	0.00
12,300.00	0.00	0.00	12,259.92	-470.58	-144.36	492.23	0.00	0.00	0.00
12,400.00	0.00	0.00	12,359.92	-470.58	-144.36	492.23	0.00	0.00	0.00
12,500.00	0.00	0.00	12,459.92	-470.58	-144.36	492.23	0.00	0.00	0.00
12,600.00	0.00	0.00	12,559.92	-470.58	-144.36	492.23	0.00	0.00	0.00
12,700.00	0.00	0.00	12,659.92	-470.58	-144.36	492.23	0.00	0.00	0.00
12,800.00	0.00	0.00	12,759.92	-470.58	-144.36	492.23	0.00	0.00	0.00
12,900.00	0.00	0.00	12,859.92	-470.58	-144.36	492.23	0.00	0.00	0.00
13,000.00	0.00	0.00	12,959.92	-470.58	-144.36	492.23	0.00	0.00	0.00
13,100.00	0.00	0.00	13,059.92	-470.58	-144.36	492.23	0.00	0.00	0.00
13,200.00	0.00	0.00	13,159.92	-470.58	-144.36	492.23	0.00	0.00	0.00
13,300.00	0.00	0.00	13,259.92	-470.58	-144.36	492.23	0.00	0.00	0.00
13,400.00	0.00	0.00	13,359.92	-470.58	-144.36	492.23	0.00	0.00	0.00
13,500.00	0.00	0.00	13,459.92	-470.58	-144.36	492.23	0.00	0.00	0.00
13,540.08	0.00	0.00	13,500.00	-470.58	-144.36	492.23	0.00	0.00	0.00
<b>TD Pilot at 13540.08' MD</b>									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Top Spot 12_13 - hit/miss target - Shape - Point	0.00	0.00	0.10	-470.58	-144.36	504,100.62	728,385.93	32.384385	-103.727392
- plan misses target center by 492.23ft at 0.10ft MD (0.10 TVD, 0.00 N, 0.00 E)									
PBHL (Top Spot - plan misses target center by 10388.69ft at 7521.06ft MD (7501.81 TVD, -224.35 N, -68.82 E) - Point	0.00	0.00	9,221.50	10,020.18	-200.18	514,590.83	728,330.11	32.413220	-103.727380
FTP (Top Spot 12_13 - plan misses target center by 49.27ft at 9260.51ft MD (9220.43 TVD, -469.85 N, -144.13 E) - Point	0.00	0.00	9,221.50	-420.59	-144.64	504,150.61	728,385.65	32.384523	-103.727392

## OXY Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Top Spot 12_13 Fed Com 13H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3608.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3608.50ft
<b>Site:</b>	Top Spot 12_13 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Top Spot 12_13 Fed Com 13H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIG HOLE		
<b>Design:</b>	Permitting Plan		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
833.50	833.50	RUSTLER			
1,131.50	1,131.50	SALADO			
2,000.00	2,000.00	MARKER BED 126			
2,867.50	2,867.50	CASTILE			
4,498.50	4,498.50	DELAWARE			
4,563.50	4,563.50	BELL CANYON			
5,413.50	5,413.50	CHERRY CANYON			
6,653.58	6,647.50	BRUSHY CANYON			
8,431.58	8,398.50	BONE SPRING			
9,548.58	9,508.50	BONE SPRING 1ST			
10,160.58	10,120.50	BONE SPRING 2ND			
11,180.58	11,140.50	BONE SPRING 3RD			
11,693.58	11,653.50	Wolfcamp			
11,711.58	11,671.50	Wolfcamp X			
11,765.58	11,725.50	Wolfcamp Y			
11,815.58	11,775.50	Wolfcamp A1			
12,010.58	11,970.50	Wolfcamp A2			
12,110.58	12,070.50	Wolfcamp B			
12,391.58	12,351.50	WFMP D			
12,724.58	12,684.50	WFMP E			
12,813.58	12,773.50	PENN			
12,978.58	12,938.50	CANYON			
13,178.58	13,138.50	STRAWN			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
5,920.00	5,920.00	0.00	0.00	Build 2°/100'	
6,419.86	6,417.33	-41.59	-12.76	Hold 10° Tangent	
8,670.60	8,633.89	-415.14	-127.35	Drop 1.5°/100'	
9,337.08	9,297.00	-470.58	-144.36	Hold Vertical	
13,540.08	13,500.00	-470.58	-144.36	TD Pilot at 13540.08' MD	

# Oxy USA Inc. - TOP SPOT 12\_13 FED COM 13H Drill Plan

## 1. Geologic Formations

TVD of Target (ft):	9222	Pilot Hole Depth (ft):	13540
Total Measured Depth (ft):	19442	Deepest Expected Fresh Water (ft):	834

### Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	834	834	
Salado	1132	1132	Salt
Marker Bed 126	2000	2000	Salt
Castile	2868	2868	Salt
Delaware	4499	4499	Oil/Gas/Brine
Bell Canyon	4564	4564	Oil/Gas/Brine
Cherry Canyon	5414	5414	Oil/Gas/Brine
Brushy Canyon	6654	6648	Losses
Bone Spring	8432	8399	Oil/Gas
Bone Spring 1st	9549	9509	Oil/Gas
Bone Spring 2nd	10161	10121	Oil/Gas
Bone Spring 3rd	11181	11141	Oil/Gas
Wolfcamp	11694	11654	Oil/Gas
Penn	12814	12774	Oil/Gas
Strawn	13179	13139	Oil/Gas

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

## 2. Casing Program

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	17.5	0	904	0	904	13.375	54.5	J-55	BTC
Intermediate	12.25	0	12200	0	12159	9.625	40	L-80 HC	BTC
Production	8.5	0	19442	0	9222	5.5	20	P-110	DWC/C-HT-IS

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

\*Oxy requests the option to run the 10.75" Intermediate I as a contingency string to be run only if severe hole conditions dictate an additional casing string necessary. This would make the planned 7.625" / 7.827" Casing the Intermediate II.  
 \*\*If 4S Contingency is not required, Oxy requests permission to transition from 12.25" to 9.875" Intermediate I at 1st trip point below Brushy top (estimated top in formation table above). Cement volumes will be updated on C103 submission.

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

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

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

### 3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft <sup>3</sup> /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	944	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	1037	1.68	13.2	5%	6,904	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1565	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	1198	1.84	13.3	25%	11,700	Circulate	Class C+Ret.
Pilot	1	Pilot - Filler Plug	206	1.39	14.8	10%	12,878	Circulate	Class C+
Pilot	2	Pilot - Filler Plug	206	1.39	14.8	10%	12,216	Circulate	Class C+
Pilot	2	Pilot - Filler Plug	5	1.39	14.8	10%	12,200	Circulate	Class C+
Pilot	3	Pilot - Filler Plug	218	1.39	14.8	10%	11,554	Circulate	Class C+

#### Offline Cementing Request

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

#### Bradenhead CBL Request

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

**4. Pressure Control Equipment**

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:	Deepest TVD Depth (ft) per Section:
12.25" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	12159
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
8.5" Hole (Pilot)	13-5/8"	5M	Annular	✓	100% of working pressure	13500
		10M	Blind Ram	✓	250 psi / 10000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
8.5" Hole (Lateral)	13-5/8"	5M	Annular	✓	70% of working pressure	9222
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			

\*Specify if additional ram is utilized

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

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

**5M Annular BOP Request**

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

	<p>Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.</p> <p>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.</p>
	<p>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.</p>
Y	<p>Are anchors required by manufacturer?</p>
	<p>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.</p> <p>See attached schematics.</p>

**BOP Break Testing Request**

Oxy requests permission to adjust the BOP break testing (intermediate and production) requirements as per the agreement reached in the OXY/BLM meeting on April 4th, 2025. Please see BOP Break Testing Variance attachment for further details.

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

**5. Mud Program**

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	904	0	904	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	904	12200	904	12159	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Pilot	12200	13540	12159	13500	Water-Based or Oil-Based Mud	9.5 - 13.5 (Pilot)	38-50	N/C
Production	8589	19442	8554	9222	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, ACL2. Oxy will use a closed mud system.

What will be used to monitor the loss or gain of fluid?	PVT/MD Totco/Visual Monitoring
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**6. Logging and Testing Procedures**

<b>Logging, Coring and Testing.</b>	
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
No	Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
Yes	RSWC ~12550 to 13200
Additional logs planned	Interval
No	Resistivity
No	Density
Yes	CBL Production string
Yes	Mud log Bone Spring – TD
Yes	Triple Combo (Spectral Gamma, Dipole Sonic, CMR) 12000 - TD

**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	9477 psi (Pilot), 4604 psi (Lateral)
Abnormal Temperature	No
BH Temperature at deepest TVD	188°F (Pilot), 154°F (Lateral)

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 BLM.	
N	H2S is present
Y	H2S Plan attached

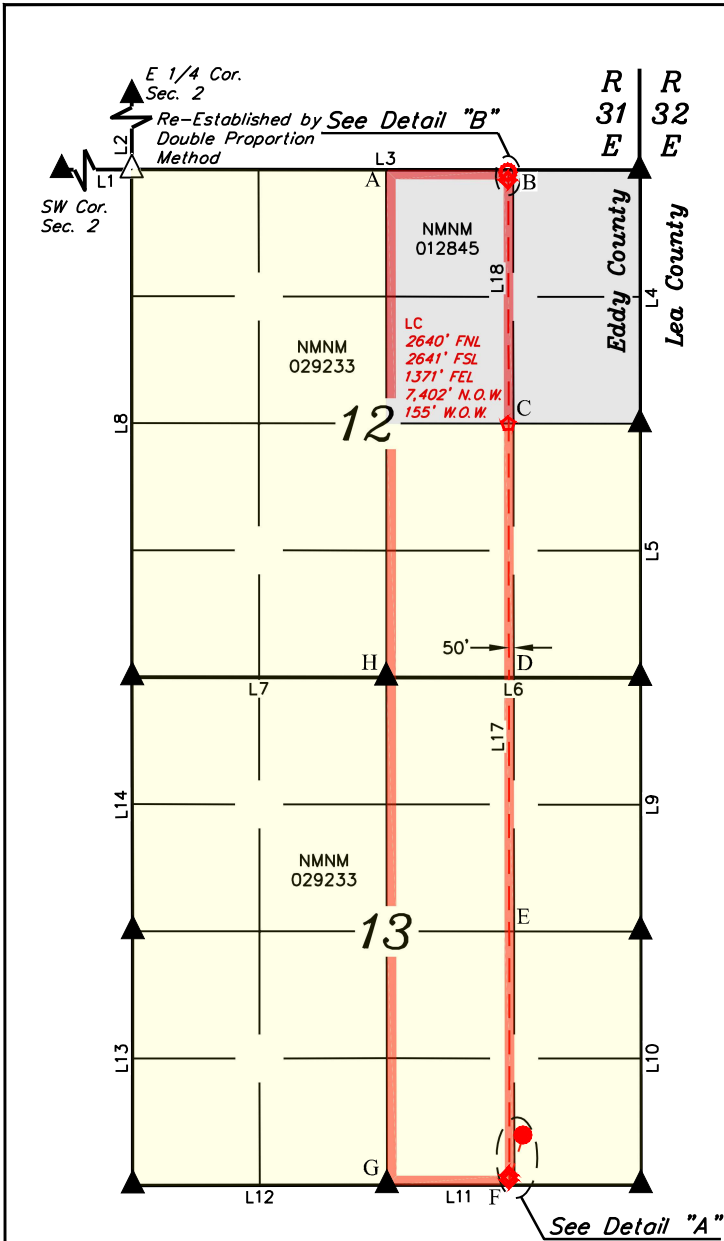
**8. Other facets of operation**

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 2 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

**Total Estimated Cuttings Volume: 2772 bbls**



Property Name TOP SPOT 12_13 FED COM	Well Number 13H	Drawn By T.I.R. 08-26-24	Revised By REV. 3 T.J.S. 07-17-25 (WELLBORE PATH UPDATE)
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- NOTE:
- Distances referenced on plat to section lines are perpendicular.
  - Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
  - Colored areas within section lines represent federal oil & gas leases.

POINT	NAD 27 N.M. STATE PLANE, EAST ZONE		NAD 83 N.M. STATE PLANE, EAST ZONE	
	NORTHING	EASTING	NORTHING	EASTING
A	514547.09'	685877.72'	514607.78'	727059.77'
B	514550.25'	687198.70'	514610.95'	728380.77'
C	511911.03'	687212.16'	511971.66'	728394.30'
D	509270.21'	687226.09'	509330.77'	728408.30'
E	506629.60'	687240.39'	506690.09'	728422.68'
F	503990.44'	687255.04'	504050.86'	728437.41'
G	503984.61'	685934.52'	504045.03'	727116.88'
H	509266.21'	685905.18'	509326.77'	727087.38'

LINE	DIRECTION	LENGTH
L1	S89°48'38"W	5283.00'
L2	N00°05'15"W	2642.31'
L3	N89°53'45"W	5284.97'
L4	N00°02'49"W	2638.99'
L5	N00°04'00"W	2641.40'
L6	N89°55'57"W	2642.34'
L7	N89°57'03"W	2643.31'
L8	N00°02'58"W	5284.61'
L9	N00°03'46"W	2640.91'
L10	N00°04'43"W	2638.22'
L11	S89°59'17"W	2641.57'
L12	S89°52'27"W	2645.53'
L13	N00°00'53"W	2649.62'
L14	N00°05'42"W	2641.26'
L15	S17°17'43"W	492.29'
L16	N00°04'43"W	50.00'
L17	N00°03'50"W	7822.45'
L18	N00°03'50"W	2539.85'
L19	N00°02'49"W	80.00'

- = SURFACE HOLE LOCATION
- ◆ = KICK OFF POINT/TAKE POINTS
- = LEASE CROSSING
- = BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- = HORIZONTAL SPACING UNIT
- N.O.W. = NORTH OF WELL
- W.O.W. = WEST OF WELL



<b>NAD 83 (SURFACE HOLE LOCATION)</b> LATITUDE = 32°23'08.44" (32.385676°) LONGITUDE = -103°43'36.89" (-103.726915°)
<b>NAD 27 (SURFACE HOLE LOCATION)</b> LATITUDE = 32°23'07.99" (32.385554°) LONGITUDE = -103°43'35.14" (-103.726426°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 504571.18' E: 728530.28'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 504510.75' E: 687347.92'

<b>NAD 83 (KICK OFF POINT)</b> LATITUDE = 32°23'03.79" (32.384385°) LONGITUDE = -103°43'38.61" (-103.727391°)
<b>NAD 27 (KICK OFF POINT)</b> LATITUDE = 32°23'03.35" (32.384263°) LONGITUDE = -103°43'36.85" (-103.726903°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 504100.62' E: 728385.93'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 504040.20' E: 687203.56'

<b>NAD 83 (FIRST TAKE POINT)</b> LATITUDE = 32°23'04.28" (32.384523°) LONGITUDE = -103°43'38.61" (-103.727391°)
<b>NAD 27 (FIRST TAKE POINT)</b> LATITUDE = 32°23'03.84" (32.384400°) LONGITUDE = -103°43'36.85" (-103.726903°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 504150.61' E: 728385.65'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 504090.19' E: 687203.28'

<b>NAD 83 (LEASE CROSSING)</b> LATITUDE = 32°24'21.67" (32.406020°) LONGITUDE = -103°43'38.58" (-103.727383°)
<b>NAD 27 (LEASE CROSSING)</b> LATITUDE = 32°24'21.23" (32.405898°) LONGITUDE = -103°43'36.82" (-103.726893°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 511971.50' E: 728344.03'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 511910.87' E: 687161.89'

<b>NAD 83 (LAST TAKE POINT)</b> LATITUDE = 32°24'46.80" (32.413000°) LONGITUDE = -103°43'38.57" (-103.727380°)
<b>NAD 27 (LAST TAKE POINT)</b> LATITUDE = 32°24'46.36" (32.412878°) LONGITUDE = -103°43'36.80" (-103.726890°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 514510.84' E: 728330.52'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 514450.15' E: 687148.45'

<b>NAD 83 (BOTTOM HOLE LOCATION)</b> LATITUDE = 32°24'47.59" (32.413220°) LONGITUDE = -103°43'38.57" (-103.727380°)
<b>NAD 27 (BOTTOM HOLE LOCATION)</b> LATITUDE = 32°24'47.15" (32.413098°) LONGITUDE = -103°43'36.80" (-103.726890°)
<b>STATE PLANE NAD 83 (N.M. EAST)</b> N: 514590.83' E: 728330.11'
<b>STATE PLANE NAD 27 (N.M. EAST)</b> N: 514530.13' E: 687148.05'



Sante Fe Main Office  
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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 549386

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 549386
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
ward.rikala	The pilot hole will be completely filled with cement to achieve required zonal isolation.	3/17/2026
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	3/17/2026