

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: EVIL OLIVE 26-35 FEDERAL COM	Well Location: T22S / R31E / SEC 26 / NWSE / 32.3619686 / -103.7472874	County or Parish/State: EDDY / NM
Well Number: 13H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM62590	Unit or CA Name: Olive Won Unit	Unit or CA Number: NMNM106319137
US Well Number: 3001556527	Operator: OXY USA INCORPORATED	

Notice of Intent

Sundry ID: 2901287

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/19/2026

Time Sundry Submitted: 05:38

Date proposed operation will begin: 06/01/2026

Procedure Description: OXY USA Inc., respectfully requests to amend the subject AAPD to revise the Well Name, SHL, BHL, HSU, Well Pad, TVD and Drill Plan. Old Well Name: EVIL OLIVE 26_35 FEDERAL COM 13H New Well Name: OLIVE WON UNIT 13H Old SHL: 2449' FSL 2231' FEL New SHL: 2446' FSL 1167' FEL Old BHL: 20' FSL 1370' FEL New BHL: 20' FSL 1480' FEL Old HSU: 240 acres New HSU: 960 acres Old Well Pad: LSTTNK_22S31E_26_2 New Well Pad: LSTTNK_22S31E_26_3 Old TVD: 9100' New TVD: 9155' *THERE IS NO ADDITIONAL SURFACE DISTURBANCE RELATED TO THIS SUNDRY" Attached is the updated C102, drill plan, directional, Blanket Design, Updated Variances and APD Change Worksheet.

NOI Attachments

Procedure Description

- OLIVEWONUNIT13H_VAM_DWC_C_XT_5.500in_20ppf_P110RY_20260319053613.pdf
- OLIVEWONUNIT13H_13inADAPT_10.75in_7.625in_10x10_20260319053601.pdf
- OLIVEWONUNIT13H_CombinedVariances_2026_20260319053550.pdf
- Blanket_Design_C_Pad_Review_Document_LSTTNK_22S31E_26_3_20260319053526.pdf
- Blanket_Design_C___OXY___3S_Mid_v1.0_20260319053515.pdf
- OLIVEWONUNIT13H_DirectPlan_20260319053501.pdf
- OLIVEWONUNIT13H_DrillPlan_20260319053449.pdf
- OLIVEWONUNIT13H_C102_20260319053437.pdf

Well Name: EVIL OLIVE 26-35
FEDERAL COM

Well Location: T22S / R31E / SEC 26 /
NWSE / 32.3619686 / -103.7472874

County or Parish/State: EDDY /
NM

Well Number: 13H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM62590

Unit or CA Name: Olive Won Unit

Unit or CA Number:
NMNM106319137

US Well Number: 3001556527

Operator: OXY USA INCORPORATED

OLIVEWONUNIT13H_APDCHGSUNDRYWORKSHEET_20260319053425.pdf

Conditions of Approval

Additional

OLIVE_WON_UNIT__04092026__SUNDRY_COA_20260409154630.pdf

Operator

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

Operator Electronic Signature: MELISSA GUIDRY

Signed on: MAR 19, 2026 05:37 AM

Name: OXY USA INCORPORATED

Title: Advisor Regulatory Sr.

Street Address: 5 GREENWAY PLAZA SUITE 110

City: HOUSTON

State: TX

Phone: (713) 497-2481

Email address: MELISSA_GUIDRY@OXY.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 04/10/2026

Signature: Chris Walls

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.	NMNM62590
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No. Olive Won Unit/NMNM106319137
2. Name of Operator OXY USA INCORPORATED		8. Well Name and No. EVIL OLIVE 26-35 FEDERAL COM/13H
3a. Address 5 GREENWAY PLAZA SUITE 110, HOUSTON, TX	3b. Phone No. (include area code) (713) 366-5716	9. API Well No. 3001556527
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SEC 26/T22S/R31E/NMP		10. Field and Pool or Exploratory Area BILBERY BASIN/BONE SPRING
		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 recomplete 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 Well Name, SHL, BHL, HSU, Well Pad, TVD and Drill Plan.

Old Well Name: EVIL OLIVE 26_35 FEDERAL COM 13H
New Well Name: OLIVE WON UNIT 13H

Old SHL: 2449' FSL 2231' FEL
NewSHL: 2446' FSL 1167' FEL

Old BHL: 20' FSL 1370' FEL
New BHL: 20' FSL 1480' FEL

Old HSU: 240 acres

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) MELISSA GUIDRY / Ph: (713) 497-2481	Advisor Regulatory Sr. Title
Signature (Electronic Submission)	Date 03/19/2026

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Petroleum Engineer Title	04/10/2026 Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

New HSU: 960 acres

Old Well Pad: LSTTNK_22S31E_26_2

New Well Pad: LSTTNK_22S31E_26_3

Old TVD: 9100'

New TVD: 9155'

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

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

Location of Well

0. SHL: NWSE / 2449 FSL / 2231 FEL / TWSP: 22S / RANGE: 31E / SECTION: 26 / LAT: 32.3619686 / LONG: -103.7472874 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 0 FNL / 1376 FEL / TWSP: 22S / RANGE: 31E / SECTION: 35 / LAT: 32.355238 / LONG: -103.7444979 (TVD: 9100 feet, MD: 11919 feet)

PPP: NWSE / 2540 FSL / 1370 FEL / TWSP: 22S / RANGE: 31E / SECTION: 26 / LAT: 32.3622198 / LONG: -103.7445022 (TVD: 9100 feet, MD: 9528 feet)

BHL: SWSE / 20 FSL / 1370 FEL / TWSP: 22S / RANGE: 31E / SECTION: 35 / LAT: 32.340783 / LONG: -103.7444918 (TVD: 9100 feet, MD: 17178 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INC.
WELL NAME:	OLIVE WON UNIT
WELL NUMBERS SUNDRIED:	1H, 2H, 3H, 11H, 12H and 13H
LOCATION:	SEC26 T22S R31E -NMP
COUNTY:	Eddy County, New Mexico

Create COAs

H₂S	Cave / Karst	Waste Prevention Rule
Present	Low	Waste Minimization Plan
Potash	R-111-Q Design	
Secretary & WIPP		
Wellhead	Casing	
Multibowl	3-String Well	
<input checked="" type="checkbox"/> Flex Hose <input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Liner <input checked="" type="checkbox"/> Fluid <input type="checkbox"/> Casing Clearance	
	Cementing	
	<input type="checkbox"/> DV Tool <input checked="" type="checkbox"/> Bradenhead <input type="checkbox"/> Echometer <input checked="" type="checkbox"/> Offline Cement <input type="checkbox"/> Open Annulus <input type="checkbox"/> Pilot Hole	
Special Requirements		
<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM <input checked="" type="checkbox"/> Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) 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

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

A1

1. The **10-3/4** inch surface casing shall be set at approximately **913** 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.

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

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

Bradenhead Squeeze: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon**.
 - b. **Second stage:** Operator to squeeze and top-out. Cement to meet requirements listed for this casing string. If cement does not circulate see B.1.a, c-d above.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is **500 feet** into the previous casing.
 - **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.

A2

1. The **13-3/8** inch surface casing shall be set at approximately **913** 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.

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

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

Bradenhead Squeeze: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon**.
 - b. **Second stage:** Operator to squeeze and top-out. Cement to meet requirements listed for this casing string. If cement does not circulate see B.1.a, c-d above.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is **500 feet** into the previous casing.
 - **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.

B

1. The **13-3/8** inch surface casing shall be set at approximately **913** 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.

1st Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **10-3/4** 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.

2nd Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

3. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is **500 feet** into the previous casing.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.

Bradenhead Squeeze: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon**.
 - b. **Second stage:** Operator to squeeze and top-out. Cement to meet requirements listed for this casing string. If cement does not circulate see B.1.a, c-d above.
4. The minimum required fill of cement behind the **5-1/2** inch production casing is **500 feet** into the previous casing.
 - **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 **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)

WIPP Requirements

The proposed surface well or bottom hole is located within 330 feet of the WIPP Land Withdrawal Area boundary. As a result, the operator is required to submit daily drilling reports, logs and

deviation survey information to the Bureau of Land Management Engineering Department and the U.S. Department of Energy per requirements of the Joint Powers Agreement until a total vertical depth of 7,000 feet is reached. These reports will have at a minimum, the depth of any excess mud returns (brine flows), the rate of penetration and a clearly marked section showing the deviation for each 500-foot interval. Operator may be required to do more frequent deviation surveys based on the daily information submitted and may be required to take other corrective measures. Information will also be provided to the New Mexico Oil Conservation Division after drilling activities have been completed. Upon completion of the well, the operator shall submit a complete directional survey. Any future entry into the well for purposes of completing additional drilling will require supplemental information.

Any oil and gas well operator drilling within one mile of the WIPP Boundary must notify WIPP as soon as possible if any of the following conditions are encountered during oil and gas operations: R-111-Q Amendment - Notification to Operators (Potash)

- a) Indication of any well collision event,
- b) Suspected well fluid flow (oil, gas, or produced water) outside of casing,
- c) Sustained annulus pressure between the 1st intermediate and next innermost casing string in excess of 500 psi above the baseline pressure of the well, or above 1500 psi total,
- d) Increasing pressure buildup rates (psi/day) across multiple successive bleed-off cycles on the annulus between the 1st intermediate and next innermost casing during well production, or
- e) Sustained losses in excess of 50% through the salt formation during drilling.

The operator can email the required information to OilGasReports@wipp.ws. Attached files must not be greater than 20 MB. Call WIPP Tech Support at 575-234-7422, during the hours 7:00am to 4:30pm, if there are any issues sending to this address.

Unit Wells:

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination:

A commercial well determination shall be submitted after production has been established for at least six months. **(This is not necessary for secondary recovery unit wells)**

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)

For multi-well pads, notifications for the following operations may be made together going from one well to the next. This does NOT apply to notifications for wells in the R111Q potash area:

- Casing run
- Offline cementing
- Break testing

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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on 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**.

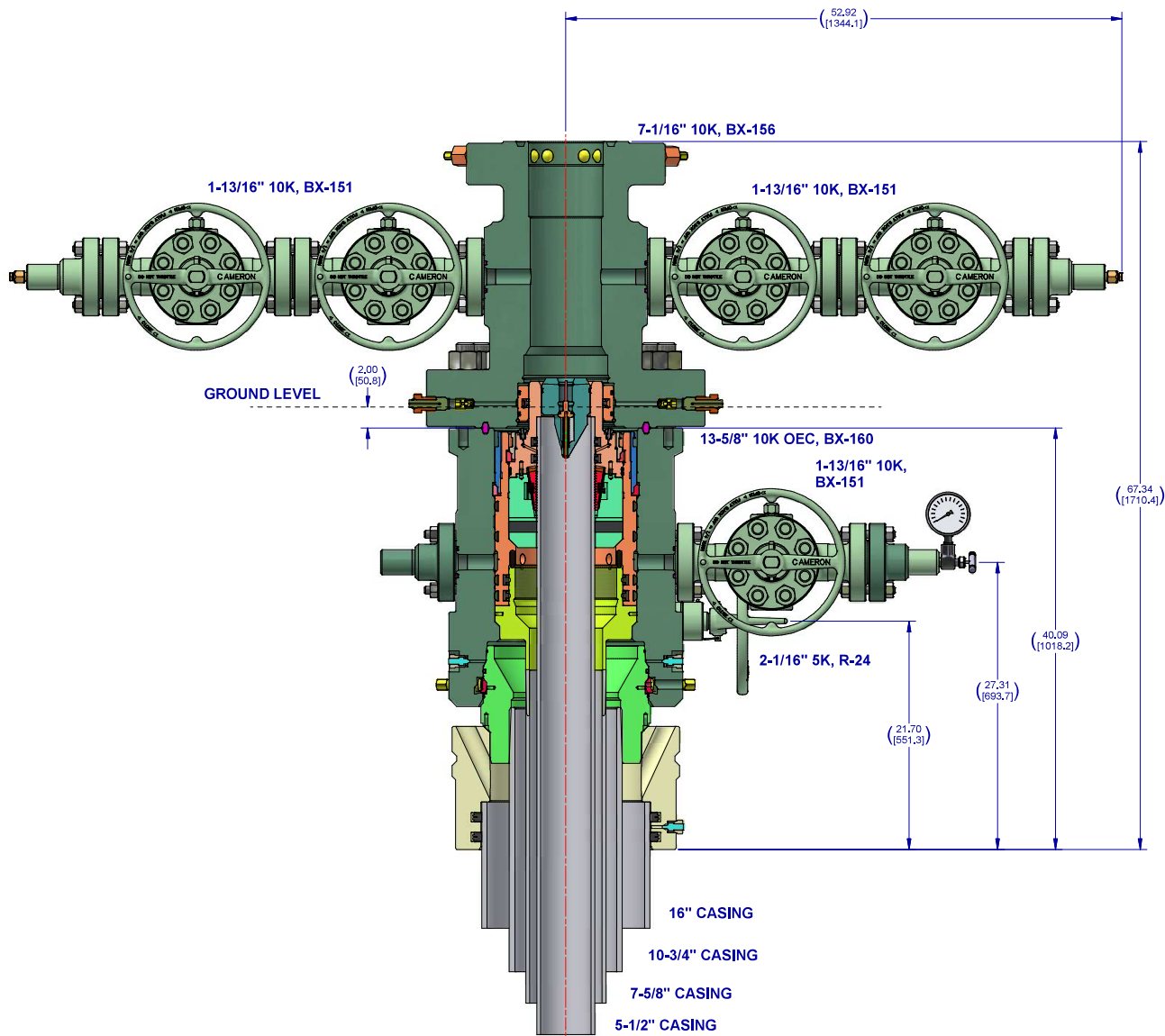
C. DRILLING MUD

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 4/9/2026



Notes:

1. THIS IS A PROPOSAL DRAWING AND DIMENSIONS SHOWN ARE SUBJECT TO CHANGE DURING THE FINAL DESIGN PROCESS.

2. DIGITALLY ENABLED SOLUTIONS, CHOKES AND ESD'S AVAILABLE ON REQUEST

CONFIDENTIAL			
SURFACE TREATMENT	DO NOT SCALE	 A Schlumberger Company	SURFACE SYSTEMS
DRAWN BY	DATE		
DRAWN BY	DATE		
CHECKED BY	DATE		
APPROVED BY	DATE		
ESTIMATED WEIGHT	68.15,817 LBS (30,892.5 KG)	INTERNAL USE B/M	7955-034 ECU
		SHEET	4 of 4
		SD-053434-94-05	REC 01

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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

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached with OXY/BLM on January 22nd, 2026.

BOPE Break Testing is ONLY permitted for 5M MASP or less on wells that are in the Wolfcamp formation or shallower. If the MASP approaches 10% of the rated working pressure of a 5M system, the BOPE must be tested to 10M and annular to 5M.

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 Wolfcamp formation ($\leq 5M$ MASP).
- 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

Bradenhead Cement CBL Variance 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.

Three string wells:

- CBL will be required on one well per pad
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

Four string wells:

- CBL is not required
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

Falcon SL1 Production Casing Annular Clearance Variance Request

If Production Casing Connection OD does not meet 0.422" annular clearance inside casing:

- Cement excess will be circulated from Top of Liner to surface (Cement Confirmation)
- Liner Top will be tested to confirm seal.
- If ICP in Bone Spring Pool and lateral landed in Wolfcamp Pool, a CBL will be ran.

Production Casing 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 from 43 CFR part 3170 Subpart 3172 under the following conditions:

1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

Offline Intermediate Cementing Variance 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.

1. Cement Program

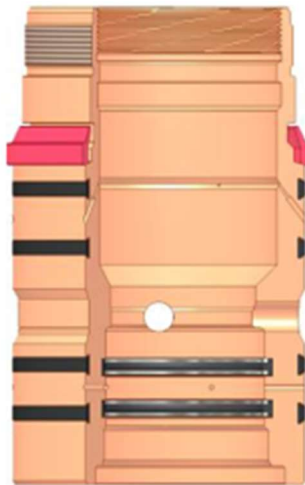
No changes to the cement program will take place for offline cementing.

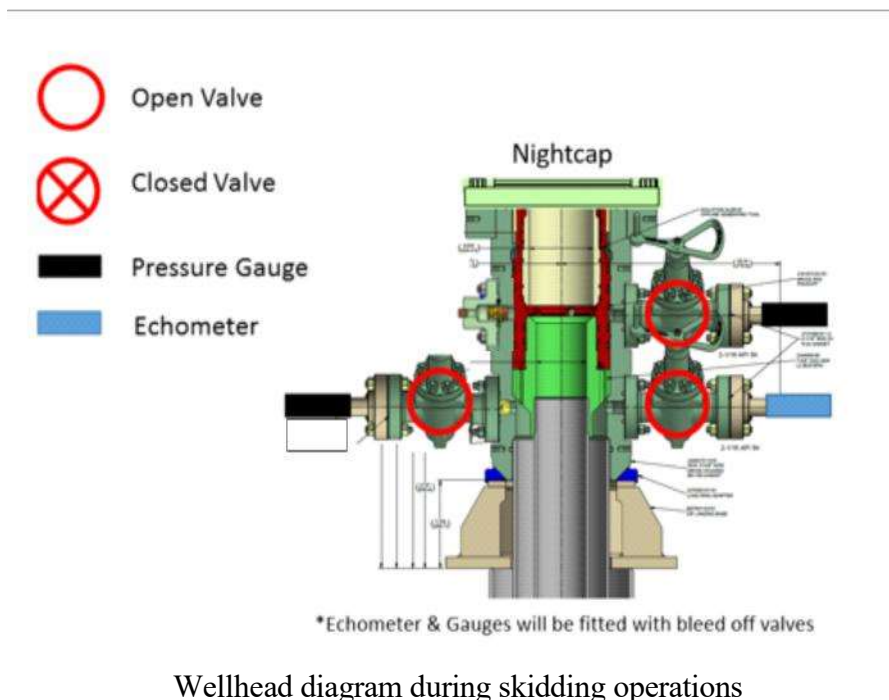
2. Offline Cementing Procedure

The operational sequence will be as follows:

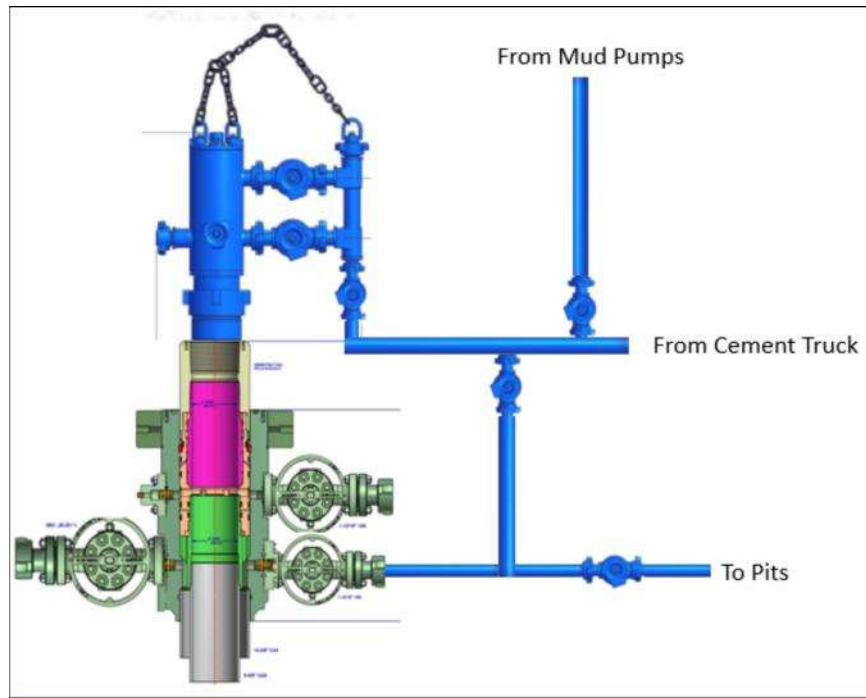
1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
2. Land casing with mandrel
3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
4. Set annular packoff shown below and pressure test to confirm integrity of the seal.
Pressure ratings of wellhead components and valves is 5,000 psi

Annular packoff with both external and internal seals





5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50 psi compressive strength if cannot be verified.
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nipping up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
8. Install offline cement tool
9. Rig up cement equipment



Wellhead diagram during offline cementing operations

10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
11. Perform cement job taking returns from the annulus wellhead valve
12. Confirm well is static and floats are holding after cement job
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.



OXY – OFFLINE PRODUCTION CEMENTING

SAFETY & EFFICIENCY

Oxy NM Team

12/22/25

LEAD WITH PASSION • OUTPERFORM EXPECTATIONS • DELIVER RESULTS RESPONSIBLY • UNLEASH OPPORTUNITIES • COMMIT TO GOOD

BACKGROUND

- Oxy has successfully pumped hundreds of offline intermediate jobs (both deep/salts) since 2018
 - Single stage, two stage, bradenheads
- Why not productions?
 - Typically set production casing on slips, no ability to cement offline
 - Recently swapped to mandrel/packoffs on production
- Historical success
 - TX group cemented over 120+ production sections offline without issues. No well control incidents. Same wellhead provider as NM.
- Big Rig Well control certification
 - 2 x OXY DSM IADC supervisor level well control training
 - 2 x Rig manager IADC supervisor level well control training
 - 2 x driller IADC Driller level well control training
 - 1 x Oxy Field Superintendent IADC supervisor level well control training

INITIAL OFFLINE CHECKLIST

- All items must be met, if not job will be performed online
 1. Offline production cement jobs must be at or above Wolfcamp formation
 2. Nothing out of the ordinary observed during drilling, tripping or casing running operations in the production hole section
 3. Casing must be landed out on hanger
 4. Oxy Company man with well control certification must be present to monitor returns
 5. Rig manager is responsible for walking rig to next well
 6. BOP will **NOT** be nipped down if
 1. Any barrier fails to test
 2. Any offset frac operations are observed within 1 mile and in the same producing interval
 7. Oxy will not drill out next well until cement operations are concluded on offline portion



PROCEDURE

- Run casing as per standard ops. Confirm well is candidate via checklist. Conduct negative pressure test while running casing and confirm integrity of the float equipment.
 - Float equipment has 2 x 15K valves
- Land production casing on mandrel hanger
 - If casing is unable to be landed with a mandrel hanger, casing will be cemented online.
 - If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid, remove landing joint, and set annular packoff rated to 10,000 psi. Pressure test same to 10,000 psi
 - If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid. Pressure test seals to 10,000 psi. Remove landing joint.
- Install back pressure valve in the casing for a 3rd casing barrier.
 - Back pressure valve rated to a minimum of 10,000 psi.
- With the well Secured; nipple down BOP and secure on hydraulic carrier or cradle and Skid/Walk rig to next well on pad.
 - If any of the barriers fail to test, the BOP stack will not be nipped down until after the cement job has concluded.
 - b. Oxy Company Man/Field supt. will oversee Cementing Operations while Rig Manager walks the rig and nipples up the BOP.
 - c. Oxy will not drill out of the subsequent well until after plug bump.

PROCEDURE CONT.

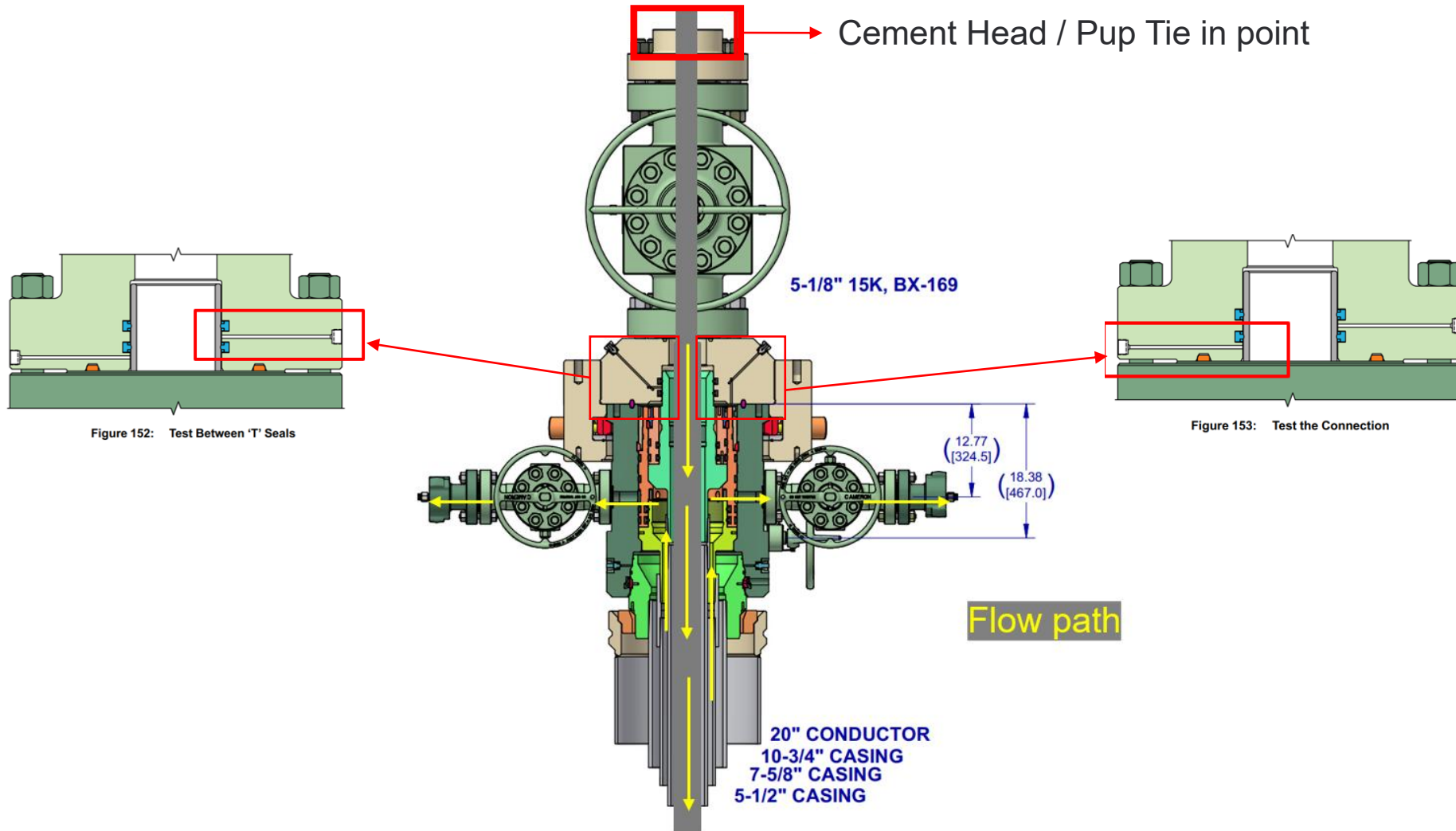
- Install 15M Gate Valve, with wellhead adapter.
 - This creates an additional barrier on the annulus and inside the casing.
 - Gate valve rated to a minimum of 15,000 psi.
- Test connection between wellhead adapter seals against hanger neck and ring gasket to 10,000 psi.
- Remove backpressure valve from the casing.
- Rig up cement head and cementing lines.
- Perform cement job.
- Procedure continued on next page.

PROCEDURE CONT.

- If an influx is noted during the Cement Job:
 - It is the Company Man and field Supt. responsibility to maintain well control. Driller/rig manager will divert to offline operations and assist.
 - The manifold will redirect flow to the rig's chokes.
 - Backpressure will be held on the well with the chokes to ensure well control is maintained through the remainder of the cement job while circulating out the influx.
 - If annular surface pressure approaches 90% tested pressure of the manifold or if circulating the influx out with the cementing pumps is not feasible, the well can be secured by closing the casing valves (10M).
 - Once cement is in place, we will close the casing valves and confirm the well is static and floats are holding.
 - If the floats fail, the gate valve (15M) or cement head (10M) can be closed to secure the well.
- Confirm well is static and floats are holding after cement job.
- Remove cement head.
- Install back pressure valve.
- Remove 15M Gate Valve and Wellhead Adapter.
- Install night cap with pressure gauge for monitoring.
- Test night cap to 10,000 psi



WELLHEAD SCHEMATIC



CASING BARRIERS – ONLINE VS OFFLINE

Operation	Online	Offline
Install Cement Head	1. Hydrostatic Barrier 2. Float Valves	1. Hydrostatic Barrier 2. Float Valves 3. 15M Gate Valve
Cement Job	1. Hydrostatic Barrier 2. Float Valves 3. Cement Head	1. Hydrostatic Barrier 2. Float Valves 3. 15M Gate Valve 4. Cement Head
Remove Cement Head	1. Float Valves	1. Float Valves 2. 15M Gate Valve
Install BPV & Nipple down BOP/ Offline Adapter	1. Float Valves 2. BPV	1. Float Valves 2. BPV
Nipple up TA Cap	1. Float Valves 2. BPV	1. Float Valves 2. BPV



BARRIERS

Barriers: During Removal of BOP

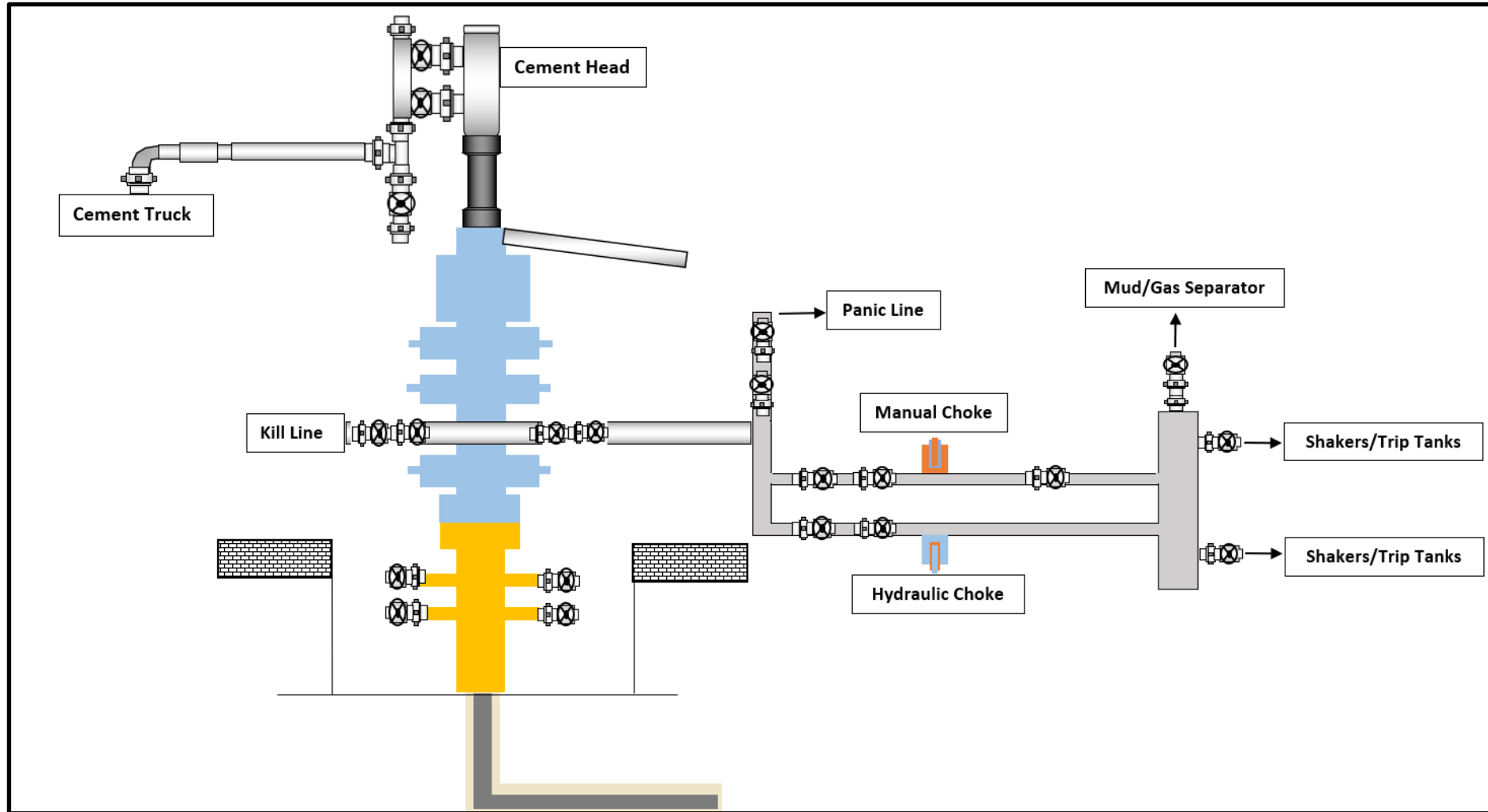
Operation	Casing	Annulus
Nippling Down BOP	1. BPV 2. Hydrostatic Barrier 3. Float Valves	1. Hydrostatic Barrier 2. Mechanical 10M Packoff

Barriers: During Offline Cementing of Production Casing

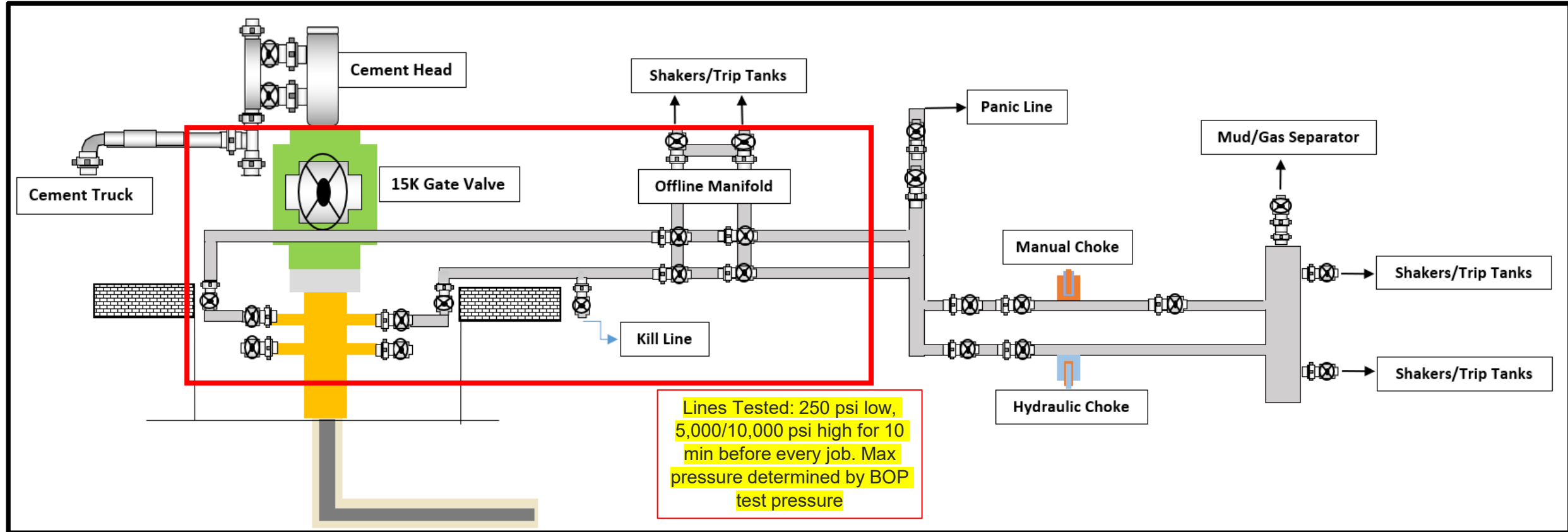
Operation	Casing	Annulus
Pull BPV	1. Hydrostatic Barrier 2. Float Valves 3. 15M Gate Valve	1. Hydrostatic Barrier 2. Mechanical Packoff 3. 10M Wellhead Adapter
Install Cement Head	1. Hydrostatic Barrier 2. Float Valves 3. 15M Gate Valve	1. Hydrostatic Barrier 2. Mechanical 10M Packoff 3. 10M Wellhead Adapter
Cement Job	1. Float Valves 2. 15M Gate Valve 3. Cement Head	1. Hydrostatic Barrier 2. Mechanical 10M Packoff 3. 10M Wellhead Adapter
Remove Cement Head	1. Float Valves 2. 15M Gate Valve	1. Hydrostatic Barrier 2. Mechanical 10M Packoff 3. 10M Wellhead Adapter
Install BPV	1. Float Valves 2. 15M Gate Valve	1. Hydrostatic Barrier 2. Mechanical 10M Packoff 3. 10M Wellhead Adapter
Remove 10M Gate Valve	1. Float Valves 2. BPV	1. Hydrostatic Barrier 2. Mechanical 10M Packoff
Nipple up TA Cap	1. Float Valves 2. BPV	1. Hydrostatic Barrier 2. Mechanical 10M Packoff



RIG UP: TRADITIONAL METHOD - ONLINE



RIG UP: PROPOSED METHOD - OFFLINE



- Same well control capabilities as online
- Gate valve offers flexibility

OXY USA Inc
APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: OXY USA Inc

1. SUMMARY OF REQUEST:

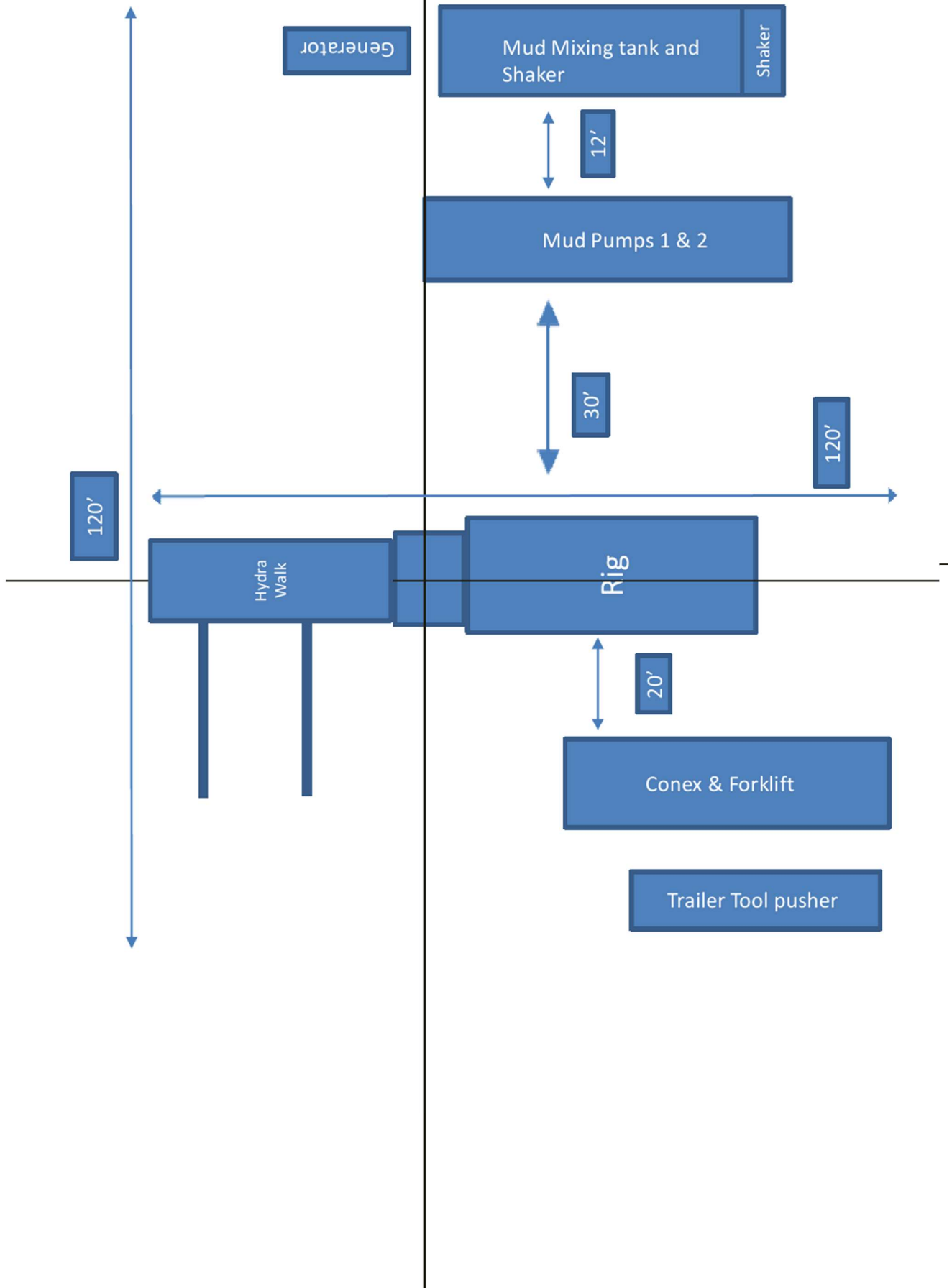
Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

1. Utilize a spudder rig to pre-set surface casing for time and cost savings.

2. Description of Operations

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR part 3170 Subpart 3172, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and the WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be contacted / notified 24 hours before the larger rig moves back on the pre-set locations.
7. Oxy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, Oxy will secure the wellhead area by placing a guard rail around the cellar area.

Spudder Rig Layout



Spudder Rig IBOP Removal for Salt String Casing Runs

Oxy requests permission to remove the IBOP on the spudder rigs while running salt casing string. This will allow the rig to run longer 10.75" joints. Typically a swage is used during the casing run if the need arises and circulation is required.

IBOP would be removed for the casing run under the following conditions:

- No flow/abnormal conditions encountered while drilling salt section.
- Salt section TD needs to be above DMG.
- Prior to running casing IBOP would be removed.
- IBOP would be reinstalled and tested to BOP test pressure prior to drilling out on next the well.

Oxy USA Inc. - Blanket Design Pad Document

OXY - Blanket Design C

Pad Name: LSTTNK_22S31E_26_3

SHL: 2446' FSL 1167' FEL, Sec 26, T22S-R31E

Oxy requests for the bellow wells to be approved for the two designs listed in the Blanket Design document (**Blanket Design C –OXY –3S Mid v1.0.**) The MDs and TVDs for all intervals are within the boundary conditions. The max inclination and DLS are also within the boundary conditions (directional plans attached separately for review.)

1. Blanket Design - Wells

Well Name	APD #	Surface		Intermediate		Production	
		MD	TVD	MD	TVD	MD	TVD
OLIVE WON UNIT 13H	10400097705	918	918	8417	8417	17128	9155
OLIVE WON UNIT 43H	10400104653	918	918	8717	8613	16955	8935

2. Review Criteria Table

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

3. Geologic Formations

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	848	848	
Salado	1130	1130	Salt
Marker Bed 126	2000	2000	Salt
Castile	3024	3024	Salt
Delaware	4434	4434	Oil/Gas/Brine
Bell Canyon	4482	4482	Oil/Gas/Brine
Cherry Canyon	5358	5358	Oil/Gas/Brine
Brushy Canyon	6578	6561	Losses
Bone Spring	8390	8345	Oil/Gas
Bone Spring 1st			Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

4. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	599	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	209	1.68	13.2	5%	6,828	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1044	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	1073	1.84	13.3	25%	7,917	Circulate	Class C+Ret.



Oxy Blanket Design - Casing Design "C"



1. Casing Program

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

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

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

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

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

Design Variation "C1"

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	14.75	0	1200	0	1200	11.75	47	J-55	BTC
Intermediate	10.625	0	13538*	0	13200*	8.625	32	L-80 HC	BTC
Production	7.875	0	23788	0	13200	5.5	20	P-110	DWC/C-XT Sprint-TC SC

*Curve could be in intermediate or production section

Design Variation "C2"

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	14.75	0	1200	0	1200	10.75	40.5	J-55	BTC
Intermediate	9.875	0	13538*	0	13200*	8.625	32	L-80 HC	Sprint SF
Production	7.875	0	23788	0	13200	5.5	20	P-110	DWC/C-XT Sprint-TC SC

*Curve could be in intermediate or production section

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

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

Oxy requests permission to utilize the variances outlined in the Combined Variances 2026 document as applicable.



Oxy Blanket Design - Casing Design "C"



2. Trajectory / Boundary Conditions

Section	MD		TVD		Max. Angle	Max. Planned DLS
	Deepest KOP (ft)	End Build (ft)	Deepest KOP (ft)	End Build (ft)		
Surface	0	1200	0	1200	5°	1°/100 ft
Intermediate	5000 (inside Cherry Canyon)	6500	4980	6390	20°	2°/100 ft
	12638	13538	12627	13200	92° ‡	12°/100 ft ‡
Production	12638 (~100' MD past ICP)	13538	12627	13200	92° ‡	12°/100 ft ‡

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

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



Oxy Blanket Design - Casing Design "C"



3. Cementing Program

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

Design Variation "C1"

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	782	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	841	1.68	13.2	5%	7,133	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1089	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	630	1.84	13.3	25%	13,038	Circulate	Class C+Ret.
Prod.	2*	Production - Tail BH*	TBD	1.84	13.3	50%	500' inside prev csg	Circulate	Class C+Ret.

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

Design Variation "C2"

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	1004	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	505	1.68	13.2	5%	7,133	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	649	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	630	1.84	13.3	25%	13,038	Circulate	Class C+Ret.
Prod.	2*	Production - Tail BH*	TBD	1.84	13.3	50%	500' inside prev csg	Circulate	Class C+Ret.

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

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



Oxy Blanket Design - Casing Design "C"



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:
10.625" Hole OR 9.875" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	13200**
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
Other*						
6.75" Hole	13-5/8"	5M	Annular	✓	100% of working pressure	13200
		10M	Blind Ram	✓	250 psi / 10000 psi	
			Pipe Ram			
			Double Ram	✓		
Other*						

*Specify if additional ram is utilized

**Curve could be in intermediate or production section

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

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

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

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

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

See attached Schematics.

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



Oxy Blanket Design - Casing Design "C"



5. Mud Program & Drilling Conditions

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	1200	0	1200	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	1200	13538*	1200	13200*	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	13538	23788	13200	13200	Water-Based or Oil-Based Mud	8.0 - 13.5	38-50	N/C

Curve could be in intermediate or production section

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

Drilling Blind Request

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

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

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

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

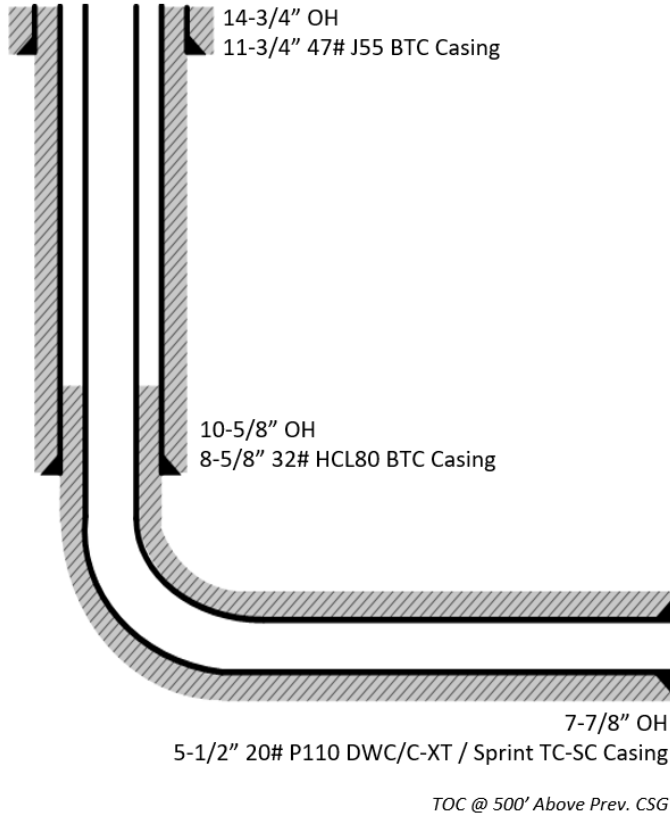


Oxy Blanket Design - Casing Design "C"

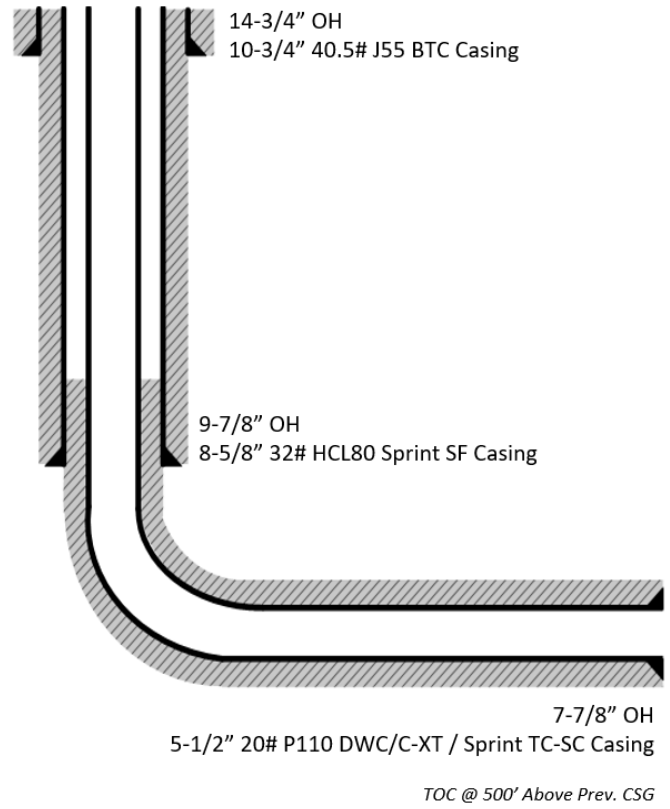


6. Wellbore Diagram(s)

Design Variation "C1"



Design Variation "C2"

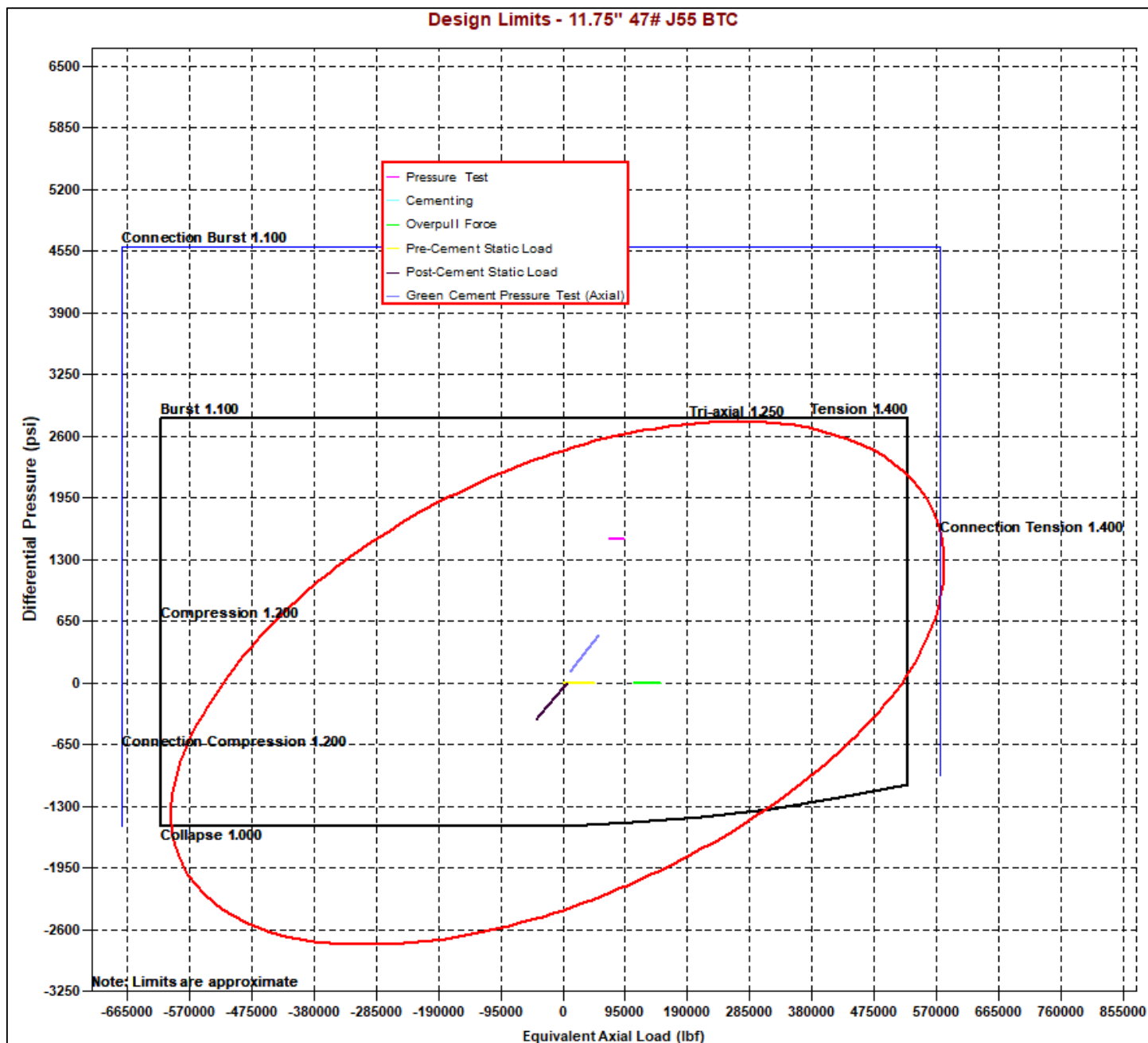




Oxy Blanket Design - Casing Design "C"

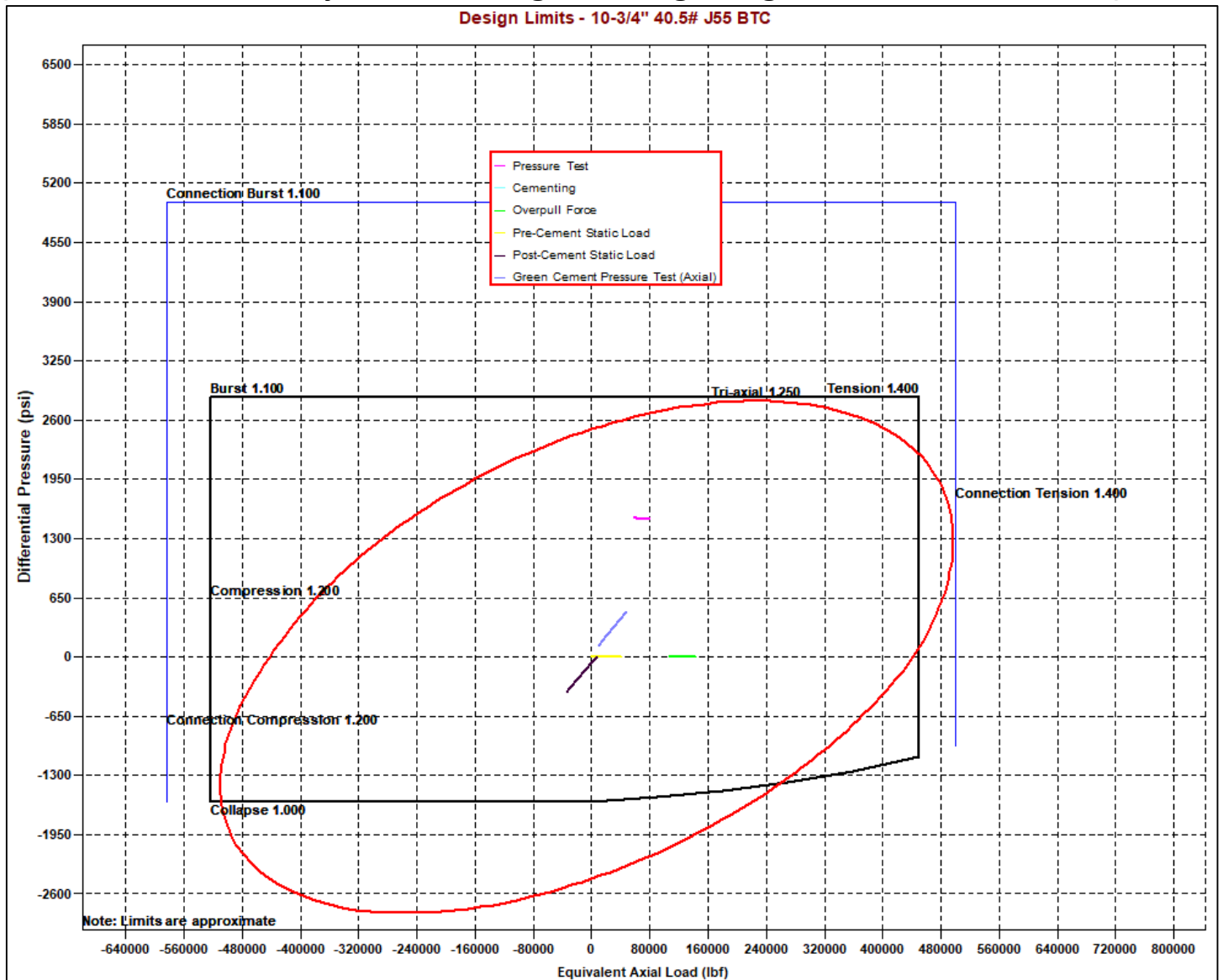


7. Landmark StressCheck Screenshots – Triaxial Output



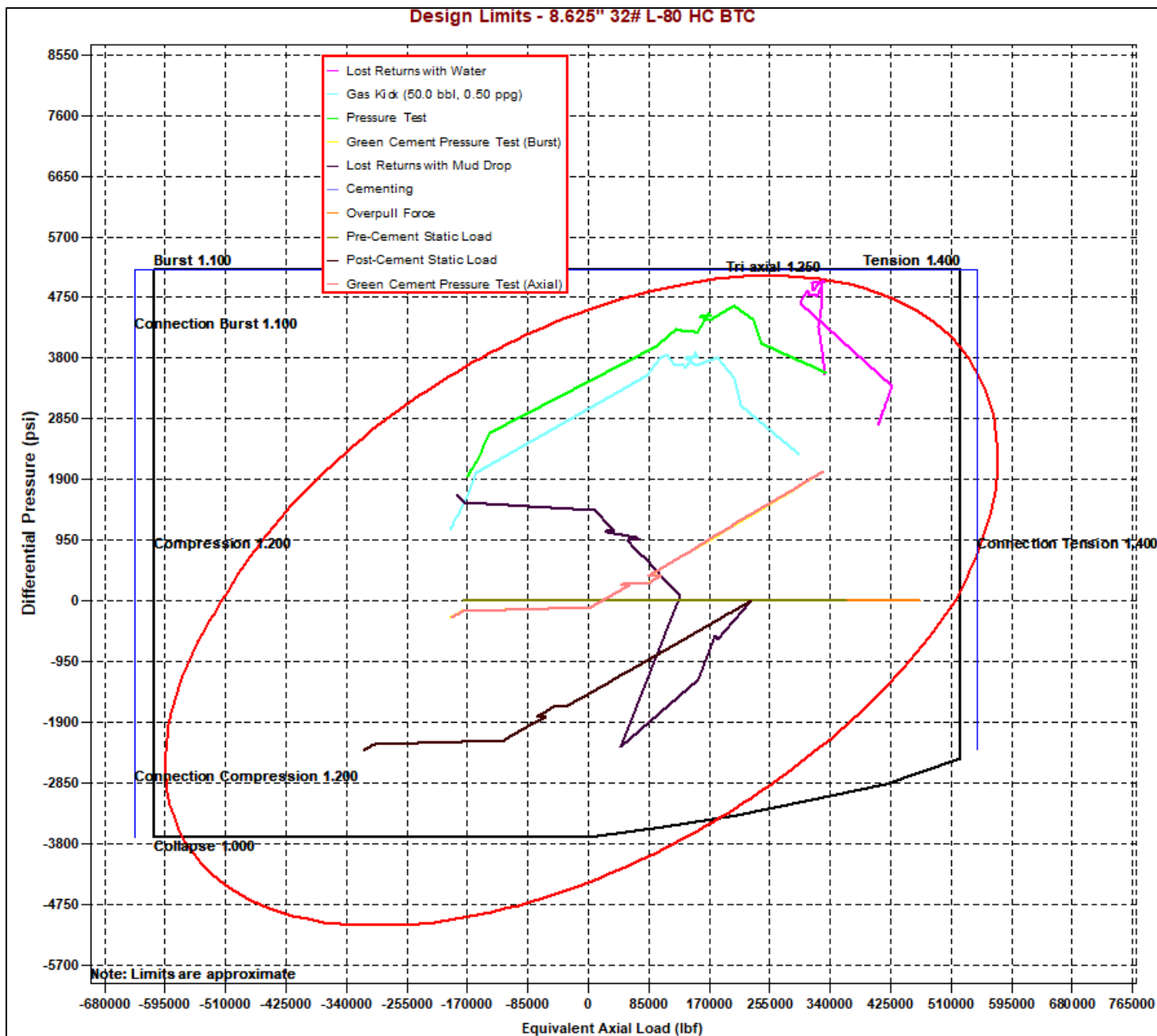


Oxy Blanket Design - Casing Design "C"



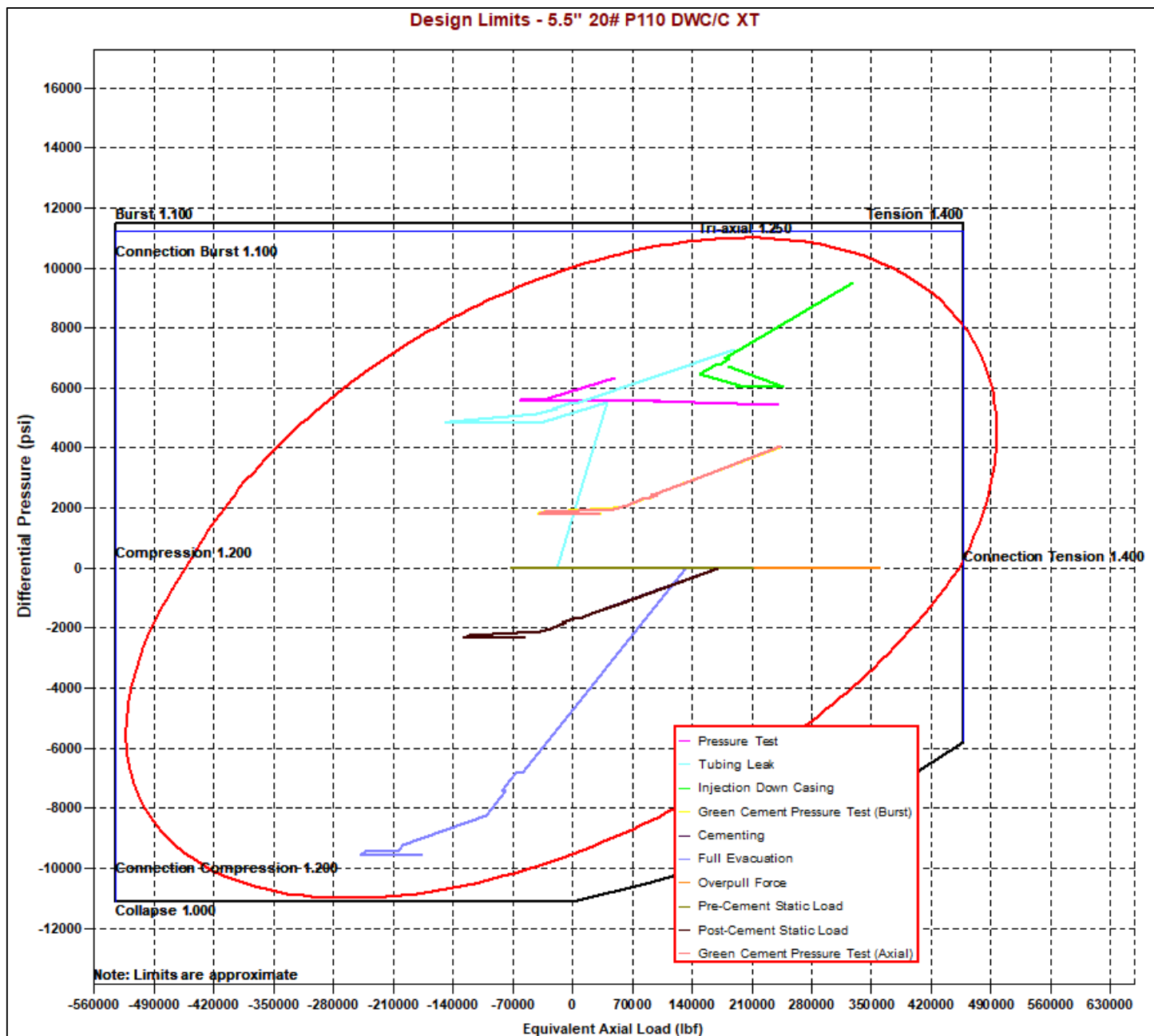


Oxy Blanket Design - Casing Design "C"





Oxy Blanket Design - Casing Design "C"





Oxy Blanket Design - Casing Design "C"



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

Burst Load Cases

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<table style="width: 100%; border: none;"> <tr> <td colspan="2">Burst Loads Data</td> </tr> <tr> <td>Drilling Load:</td> <td style="text-align: right;">Lost Returns with Water</td> </tr> <tr> <td>Fracture at Shoe (MD= 13538.00 ft):</td> <td style="text-align: right;">11273 psi</td> </tr> <tr> <td>Mud/Water Interface, MD:</td> <td style="text-align: right;">0.00 ft</td> </tr> <tr> <td>Mud Weight</td> <td style="text-align: right;">11.28 ppg</td> </tr> <tr> <td>Assigned External Pressure:</td> <td style="text-align: right;">Fluid Gradients (w/ Pore Pressure)</td> </tr> <tr> <td>Drilling Load:</td> <td style="text-align: right;">Gas Kick Profile</td> </tr> <tr> <td>Influx Depth, MD:</td> <td style="text-align: right;">23788.00 ft</td> </tr> <tr> <td>Kick Volume:</td> <td style="text-align: right;">50.0 bbl</td> </tr> <tr> <td>Kick Intensity</td> <td style="text-align: right;">0.50 ppg</td> </tr> <tr> <td>Maximum Mud Weight:</td> <td style="text-align: right;">13.50 ppg</td> </tr> <tr> <td>Kick Gas Gravity:</td> <td style="text-align: right;">0.55 (0.1172 psi/ft @ 185 °F & 9601 psi)</td> </tr> <tr> <td>Fracture at Shoe (MD= 13538.00 ft):</td> <td style="text-align: right;">11273 psi</td> </tr> <tr> <td>Drill Pipe OD:</td> <td style="text-align: right;">5.000 in</td> </tr> <tr> <td>Collar OD:</td> <td style="text-align: right;">5.500 in</td> </tr> <tr> <td>Collar Length:</td> <td style="text-align: right;">200.00 ft</td> </tr> <tr> <td>Assigned External Pressure:</td> <td style="text-align: right;">Fluid Gradients (w/ Pore Pressure)</td> </tr> <tr> <td>Drilling Load:</td> <td style="text-align: right;">Pressure Test</td> </tr> <tr> <td>Test Pressure:</td> <td style="text-align: right;">3557 psi</td> </tr> <tr> <td>Mud Weight:</td> <td style="text-align: right;">10.00 ppg</td> </tr> <tr> <td>Assigned External Pressure:</td> <td style="text-align: right;">Fluid Gradients (w/ Pore Pressure)</td> </tr> <tr> <td>Drilling Load:</td> <td style="text-align: right;">Green Cement Pressure Test</td> </tr> <tr> <td>Test Pressure:</td> <td style="text-align: right;">2000 psi</td> </tr> <tr> <td>Mud Weight at Shoe:</td> <td style="text-align: right;">10.00 ppg</td> </tr> <tr> <td>TOC, MD:</td> <td style="text-align: right;">25.00 ft</td> </tr> <tr> <td>Lead Slurry Density:</td> <td style="text-align: right;">13.30 ppg</td> </tr> <tr> <td>Tail Slurry Density:</td> <td style="text-align: right;">13.30 ppg</td> </tr> <tr> <td>Tail Slurry Length:</td> <td style="text-align: right;">5906.00 ft</td> </tr> <tr> <td>Displacement Fluid Density:</td> <td style="text-align: right;">10.00 ppg</td> </tr> <tr> <td>Float Collar Depth, MD:</td> <td style="text-align: right;">13538.00 ft</td> </tr> <tr> <td>External Pressure:</td> <td style="text-align: right;">Fluid Gradients (w/ Pore Pressure)</td> </tr> <tr> <td>TOC, MD:</td> <td style="text-align: right;">25.00 ft</td> </tr> <tr> <td>Prior Shoe, MD:</td> <td style="text-align: right;">1200.00 ft</td> </tr> <tr> <td>Mud Weight Above TOC:</td> <td style="text-align: right;">10.00 ppg</td> </tr> <tr> <td>Fluid Gradient Below TOC:</td> <td style="text-align: right;">8.33 ppg</td> </tr> <tr> <td>Wellhead Pressure:</td> <td style="text-align: right;">13 psi</td> </tr> <tr> <td>Pore Pressure In Open Hole:</td> <td style="text-align: right;">Yes</td> </tr> </table>	Burst Loads Data		Drilling Load:	Lost Returns with Water	Fracture at Shoe (MD= 13538.00 ft):	11273 psi	Mud/Water Interface, MD:	0.00 ft	Mud Weight	11.28 ppg	Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)	Drilling Load:	Gas Kick Profile	Influx Depth, MD:	23788.00 ft	Kick Volume:	50.0 bbl	Kick Intensity	0.50 ppg	Maximum Mud Weight:	13.50 ppg	Kick Gas Gravity:	0.55 (0.1172 psi/ft @ 185 °F & 9601 psi)	Fracture at Shoe (MD= 13538.00 ft):	11273 psi	Drill Pipe OD:	5.000 in	Collar OD:	5.500 in	Collar Length:	200.00 ft	Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)	Drilling Load:	Pressure Test	Test Pressure:	3557 psi	Mud Weight:	10.00 ppg	Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)	Drilling Load:	Green Cement Pressure Test	Test Pressure:	2000 psi	Mud Weight at Shoe:	10.00 ppg	TOC, MD:	25.00 ft	Lead Slurry Density:	13.30 ppg	Tail Slurry Density:	13.30 ppg	Tail Slurry Length:	5906.00 ft	Displacement Fluid Density:	10.00 ppg	Float Collar Depth, MD:	13538.00 ft	External Pressure:	Fluid Gradients (w/ Pore Pressure)	TOC, MD:	25.00 ft	Prior Shoe, MD:	1200.00 ft	Mud Weight Above TOC:	10.00 ppg	Fluid Gradient Below TOC:	8.33 ppg	Wellhead Pressure:	13 psi	Pore Pressure In Open Hole:	Yes
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Oxy Blanket Design - Casing Design "C"



Collapse Load Cases

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Collapse Loads Data	
Drilling Load:	Cementing
Mud Weight at Shoe:	10.00 ppg
TOC, MD:	25.00 ft
Lead Slurry Density:	13.30 ppg
Tail Slurry Density:	13.30 ppg
Tail Slurry Length:	5906.00 ft
Displacement Fluid Density:	10.00 ppg
Float Collar Depth, MD:	13538.00 ft
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)
Drilling Load:	Lost Returns with Mud Drop
Lost Returns Depth, MD:	13588.10 ft
Pore Pressure at Lost Returns Depth:	8456 psi
Pore Pressure Gradient at Lost Returns Depth:	12.33 ppg
Mud Weight:	13.50 ppg
Mud Drop Level, MD:	1143.25 ft
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)
External Pressure:	Fluid Gradients (w/ Pore Pressure)
TOC, MD:	25.00 ft
Prior Shoe, MD:	1200.00 ft
Fluid Gradient Above TOC:	10.00 ppg
Fluid Gradient Below TOC:	10.00 ppg
Wellhead Pressure:	13 psi
Pore Pressure In Open Hole Below TOC:	No

Axial Load Cases

<input type="text"/> <input type="button" value="←"/> <input type="button" value="→"/> <input casing"="" intermediate="" type="text" value="8 5/8"/>	
<input type="text"/>	
Axial Loads Data	
Overpull Force:	100000 lbf
Pre-Cement Static Load:	Yes
Pickup Force:	0 lbf
Post-Cement Static Load:	Yes
Green Cement Pressure Test:	2000 psi
Service Loads:	Yes



Oxy Blanket Design - Casing Design "C"



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

8 5/8" Intermediate Casing														
Pressure Test														
Triaxial Results														
	Depth (MD) (ft)	Axial Force (lbf)		Equivalent Axial Load (lbf)	Bending Stress at OD (psi)	Absolute Safety Factor				Temperature (°F)	Pressure (psi)		Addtl Pickup To Prevent Buck. (lbf)	Buckled Length (ft)
		Apparent (w/Bending)	Actual (w/o Bending)			Triaxial	Burst	Collapse (V)	Axial		Internal	External		
25	12650	-203576	-31559	-138886	18802.5	1.77	2.17	N/A	(3.47)	181	10123	7587		
26	12750	-212873	-40856	-146243	18802.5	1.86	2.35	N/A	(3.32)	182	10175	7830		
27	12750	-212874	-40857	-146244	18802.5	1.86	2.35	N/A	(3.32)	182	10175	7830		
28	12813	-218576	-46559	-150758	18802.5	1.91	2.48	N/A	(3.23)	182	10206	7979		
29	12850	-220536	-48519	-152345	18802.5	1.92	2.51	N/A	(3.20)	182	10225	8027		
30	12850	-220537	-48520	-152345	18802.5	1.92	2.51	N/A	(3.20)	182	10225	8027		
31	12950	-225553	-53536	-156408	18802.5	1.95	2.60	N/A	(3.13)	183	10271	8151		
32	12950	-225554	-53537	-156409	18802.5	1.95	2.60	N/A	(3.13)	183	10271	8151		
33	13000	-227881	-55864	-158295	18802.5	1.97	2.64	N/A	(3.10)	184	10293	8208		
34	13000	-227882	-55865	-158295	18802.5	1.97	2.64	N/A	(3.10)	184	10293	8208		
35	13050	-230065	-58049	-160065	18802.5	1.98	2.69	N/A	(3.07)	184	10313	8261		
36	13050	-230066	-58049	-160065	18802.5	1.98	2.69	N/A	(3.07)	184	10313	8261		
37	13100	-232089	-60072	-161705	18802.5	1.99	2.73	N/A	(3.04)	184	10332	8311		
38	13100	-232090	-60073	-161705	18802.5	1.99	2.73	N/A	(3.04)	184	10332	8311		
39	13111	-232511	-60494	-162047	18802.5	1.99	2.74	N/A	(3.04)	184	10336	8321		
40	13150	-233936	-61919	-163202	18802.5	2.00	2.77	N/A	(3.02)	184	10349	8356		
41	13150	-233937	-61920	-163202	18802.5	2.00	2.77	N/A	(3.02)	184	10349	8357		
42	13200	-235593	-63576	-164545	18802.5	2.01	2.80	N/A	(3.00)	185	10364	8397		
43	13200	-235593	-63577	-164546	18802.5	2.01	2.80	N/A	(3.00)	185	10364	8397		
44	13250	-237047	-65030	-165724	18802.5	2.02	2.83	N/A	(2.98)	185	10378	8433		
45	13250	-237047	-65030	-165725	18802.5	2.02	2.83	N/A	(2.98)	185	10378	8433		
46	13300	-238287	-66270	-166730	18802.5	2.03	2.86	N/A	(2.96)	185	10389	8463		
47	13350	-239304	-67287	-167554	18802.5	2.04	2.88	N/A	(2.95)	185	10399	8488		
48	13350	-239304	-67287	-167555	18802.5	2.04	2.88	N/A	(2.95)	185	10399	8488		
49	13400	-240089	-68072	-168192	18802.5	2.04	2.90	N/A	(2.94)	185	10406	8508		
50	13450	-240637	-68621	-168636	18802.5	2.05	2.91	N/A	(2.93)	185	10411	8521		
51	13450	-240638	-68621	-168637	18802.5	2.05	2.91	N/A	(2.93)	185	10411	8521		
52	13500	-240945	-68928	-168886	18802.5	2.05	2.92	N/A	(2.93)	185	10414	8529		
53	13538	-241015	-68998	-168943	18802.5	2.05	2.92	N/A	(2.93)	185	10415	8530		
54														
55														
56														
57														

() Compression
(V) Vector Collapse Safety Factor

Internal Pressure = Surface Pressure + Hydrostatic = 10415 psi

External Pressure = Fluid Gradient w/ Pore Pressure = 8530 psi

Burst SF = 2.92

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



Oxy Blanket Design - Casing Design "C"



10. Intermediate Non-API Casing Spec Sheet

Generated on March 05, 2026



CONNECTION DATA SHEET

OD: 8.625 in. Grade: L80 HC
 Weight: 32.00 lb/ft Drift: 7.875 in. (Alternate)
 Wall Th.: 0.352 in.

VAM® SPRINT-SF

Semi-Flush

Field Torque Values

Make-up Torque (ft-lb)	25,250 MIN
	30,250 OPTI
	35,250 MAX
Torque with Sealability (ft-lb)	50,000 MTS
Locked Flank Torque (ft-lb)	6,050 MIN
	21,170 MAX

(1) MTS: Maximum Torque with Sealability.

PIPE BODY PROPERTIES

Nominal OD	8.625	in.
Nominal ID	7.921	in.
Nominal Wall Thickness	0.352	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	32.00	lb/ft
Plain End Weight	31.13	lb/ft
Drift	7.875	in.
Grade Type	High Collapse	
Minimum Yield Strength	80	ksi
Maximum Yield Strength	95	ksi
Minimum Ultimate Tensile Strength	95	ksi
Pipe Body Yield Strength	732	klb
Internal Yield Pressure	5,710	psi
Collapse Pressure	3,180	psi

CONNECTION PROPERTIES

Connection Type	Semi-Premium Integral Semi-	
Nominal Connection OD	9.033	in.
Nominal Connection ID	7.945	in.
Make-up Loss	5.887	in.
Tension Efficiency	90	% Pipe Body
Compression Efficiency	90	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

JOINT PERFORMANCES

Tension Strength	659	klb
Compression Strength	659	klb
Internal Pressure Resistance	5,710	psi
External Pressure Resistance	3,180	psi
Maximum Bending, Structural	36	°/100 ft
Maximum Bending, with Sealability	20	°/100 ft

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



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Oxy Blanket Design - Casing Design "C"



11. Production Non-API Casing Spec Sheets



Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	API DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 20.00 Plain End: 19.83	0.361	VST P110EC	4.653	87.5	DWC/C-XT

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

CONNECTION PROPERTIES	
Connection Type	Semi-Premium T&C
Connection OD (nom)	6.050 in.
Connection ID (nom)	4.778 in.
Make-Up Loss	4.125 in.
Coupling Length	8.250 in.
Critical Cross Section	5.828 sq.in.
Tension Efficiency	100.0% of pipe
Compression Efficiency	100.0% of pipe
Internal Pressure Efficiency	97.8% of pipe
External Pressure Efficiency	100.0% of pipe

CONNECTION PERFORMANCES		
Yield Strength	729	klb
Parting Load	787	klb
Compression Rating	729	klb
Min. Internal Yield Pressure	14,050	psi
External Pressure Resistance	12,090	psi
Maximum Uniaxial Bend Rating	104.2	°/100 ft
Reference String Length w 1.4 Design Factor	26,040	ft.

FIELD TORQUE VALUES	
Min. Make-up torque	23,400 ft.lb
Opti. Make-up torque	25,250 ft.lb
Max. Make-up torque	27,100 ft.lb
Min. Shoulder Torque	2,340 ft.lb
Max. Shoulder Torque	18,720 ft.lb
Maximum Operational Torque	30,750 ft.lb

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

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

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

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

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Oxy Blanket Design - Casing Design "C"



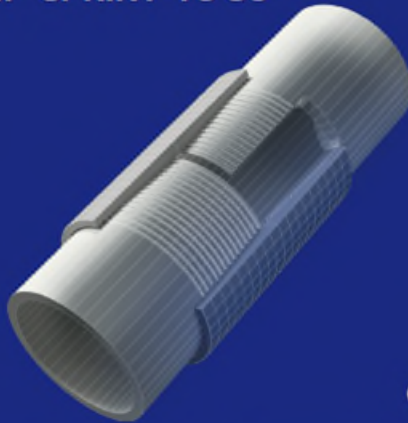
Generated on May 14, 2025



CONNECTION DATA SHEET

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

VAM® SPRINT-TC SC



T&C

Field Torque Values

Make-up Torque (ft-lb)

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

Torque with Sealability (ft-lb)

- 39,200 MTS

Locked Flank Torque (ft-lb)

- 1,200 MIN
- 16,800 MAX

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

PIPE BODY PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Wall Thickness	0.361	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	20.00	lb/ft
Plain End Weight	19.83	lb/ft
Drift	4.653	in.
Grade Type	High Yield	
Minimum Yield Strength	125	ksi
Maximum Yield Strength	140	ksi
Minimum Ultimate Tensile Strength	135	ksi
Pipe Body Yield Strength	729	klb
Internal Yield Pressure	14,360	psi
Collapse Pressure	12,090	psi

CONNECTION PROPERTIES

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

JOINT PERFORMANCES

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

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



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OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Olive Won

Olive Won Unit 13H

ORIG HOLE

Plan: Permitting Plan

Standard Planning Report

16 March, 2026

OXY Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Olive Won Unit 13H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3543.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3543.00ft
Site:	Olive Won	North Reference:	Grid
Well:	Olive Won Unit 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIG HOLE		
Design:	Permitting Plan		

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

Site Olive Won			
Site Position:		Northing:	496,069.70 usft
From:	Map	Easting:	720,943.10 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32.362424
		Longitude:	-103.751643

Well Olive Won Unit 13H			
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	495,914.04 usf
			Latitude:
			32.361960
Position Uncertainty		6.00 ft	Easting:
			723,352.17 usf
			Longitude:
			-103.743844
Grid Convergence:		0.32 °	Wellhead Elevation:
			ft
			Ground Level:
			3,518.00 ft

Wellbore ORIG HOLE					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	2/14/2024	6.37	59.95	47,536.30000000

Design Permitting Plan				
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	2.00	0.00	0.00	181.99

Plan Survey Tool Program		Date 3/16/2026		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,127.69 Permitting Plan (ORIG HOLE)	B005Mc_MWD+HRGM+SA MWD+HRGM+Sag+MSA	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,105.00	0.00	0.00	5,105.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,605.14	10.00	331.60	5,602.60	38.30	-20.71	2.00	2.00	0.00	331.60	
8,516.59	10.00	331.60	8,469.80	483.14	-261.27	0.00	0.00	0.00	0.00	
9,502.76	89.80	179.66	9,128.32	-81.37	-312.43	10.00	8.09	-15.41	-151.58	
17,127.76	89.80	179.66	9,154.92	-7,706.19	-267.83	0.00	0.00	0.00	0.00	PBHL (Olive Won)

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Olive Won Unit 13H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3543.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3543.00ft
Site:	Olive Won	North Reference:	Grid
Well:	Olive Won Unit 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIG HOLE		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	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
5,105.00	0.00	0.00	5,105.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 2°/100'									
5,200.00	1.90	331.60	5,199.98	1.39	-0.75	-1.36	2.00	2.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Olive Won Unit 13H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3543.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3543.00ft
Site:	Olive Won	North Reference:	Grid
Well:	Olive Won Unit 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIG HOLE		
Design:	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,300.00	3.90	331.60	5,299.85	5.84	-3.16	-5.72	2.00	2.00	0.00	
5,400.00	5.90	331.60	5,399.48	13.35	-7.22	-13.09	2.00	2.00	0.00	
5,500.00	7.90	331.60	5,498.75	23.92	-12.93	-23.45	2.00	2.00	0.00	
5,600.00	9.90	331.60	5,597.54	37.52	-20.29	-36.80	2.00	2.00	0.00	
5,605.14	10.00	331.60	5,602.60	38.30	-20.71	-37.56	2.00	2.00	0.00	
Hold 10° Tangent										
5,700.00	10.00	331.60	5,696.02	52.80	-28.55	-51.77	0.00	0.00	0.00	
5,800.00	10.00	331.60	5,794.50	68.08	-36.81	-66.76	0.00	0.00	0.00	
5,900.00	10.00	331.60	5,892.98	83.36	-45.08	-81.74	0.00	0.00	0.00	
6,000.00	10.00	331.60	5,991.46	98.63	-53.34	-96.72	0.00	0.00	0.00	
6,100.00	10.00	331.60	6,089.94	113.91	-61.60	-111.70	0.00	0.00	0.00	
6,200.00	10.00	331.60	6,188.42	129.19	-69.86	-126.69	0.00	0.00	0.00	
6,300.00	10.00	331.60	6,286.90	144.47	-78.13	-141.67	0.00	0.00	0.00	
6,400.00	10.00	331.60	6,385.38	159.75	-86.39	-156.65	0.00	0.00	0.00	
6,500.00	10.00	331.60	6,483.86	175.03	-94.65	-171.63	0.00	0.00	0.00	
6,600.00	10.00	331.60	6,582.34	190.31	-102.91	-186.62	0.00	0.00	0.00	
6,700.00	10.00	331.60	6,680.82	205.58	-111.18	-201.60	0.00	0.00	0.00	
6,800.00	10.00	331.60	6,779.30	220.86	-119.44	-216.58	0.00	0.00	0.00	
6,900.00	10.00	331.60	6,877.78	236.14	-127.70	-231.56	0.00	0.00	0.00	
7,000.00	10.00	331.60	6,976.26	251.42	-135.96	-246.55	0.00	0.00	0.00	
7,100.00	10.00	331.60	7,074.74	266.70	-144.23	-261.53	0.00	0.00	0.00	
7,200.00	10.00	331.60	7,173.22	281.98	-152.49	-276.51	0.00	0.00	0.00	
7,300.00	10.00	331.60	7,271.70	297.26	-160.75	-291.49	0.00	0.00	0.00	
7,400.00	10.00	331.60	7,370.18	312.53	-169.01	-306.48	0.00	0.00	0.00	
7,500.00	10.00	331.60	7,468.66	327.81	-177.28	-321.46	0.00	0.00	0.00	
7,600.00	10.00	331.60	7,567.14	343.09	-185.54	-336.44	0.00	0.00	0.00	
7,700.00	10.00	331.60	7,665.62	358.37	-193.80	-351.42	0.00	0.00	0.00	
7,800.00	10.00	331.60	7,764.10	373.65	-202.06	-366.41	0.00	0.00	0.00	
7,900.00	10.00	331.60	7,862.58	388.93	-210.33	-381.39	0.00	0.00	0.00	
8,000.00	10.00	331.60	7,961.06	404.21	-218.59	-396.37	0.00	0.00	0.00	
8,100.00	10.00	331.60	8,059.54	419.49	-226.85	-411.35	0.00	0.00	0.00	
8,200.00	10.00	331.60	8,158.02	434.76	-235.11	-426.34	0.00	0.00	0.00	
8,300.00	10.00	331.60	8,256.50	450.04	-243.37	-441.32	0.00	0.00	0.00	
8,400.00	10.00	331.60	8,354.98	465.32	-251.64	-456.30	0.00	0.00	0.00	
8,500.00	10.00	331.60	8,453.46	480.60	-259.90	-471.28	0.00	0.00	0.00	
8,516.59	10.00	331.60	8,469.80	483.14	-261.27	-473.77	0.00	0.00	0.00	
KOP, Build & Turn 10°/100'										
8,600.00	4.77	275.40	8,552.58	489.84	-268.18	-480.23	10.00	-6.28	-67.38	
8,700.00	10.63	205.88	8,651.80	481.92	-276.36	-472.03	10.00	5.86	-69.52	
8,800.00	20.07	192.77	8,748.15	456.82	-284.20	-446.68	10.00	9.44	-13.11	
8,900.00	29.87	187.95	8,838.70	415.33	-291.45	-404.95	10.00	9.80	-4.82	
9,000.00	39.76	185.37	8,920.70	358.68	-297.91	-348.12	10.00	9.89	-2.58	
9,100.00	49.69	183.68	8,991.67	288.62	-303.36	-277.91	10.00	9.93	-1.69	
9,200.00	59.64	182.43	9,049.43	207.26	-307.66	-196.45	10.00	9.95	-1.25	
9,300.00	69.60	181.42	9,092.25	117.08	-310.65	-106.22	10.00	9.96	-1.02	
9,400.00	79.56	180.52	9,118.81	20.81	-312.27	-9.95	10.00	9.96	-0.89	
9,500.00	89.52	179.69	9,128.31	-78.61	-312.44	89.41	10.00	9.97	-0.84	
9,502.76	89.80	179.66	9,128.32	-81.37	-312.43	92.17	10.00	9.97	-0.83	
Landing Point										
9,600.00	89.80	179.66	9,128.66	-178.60	-311.86	189.33	0.00	0.00	0.00	
9,700.00	89.80	179.66	9,129.01	-278.60	-311.28	289.25	0.00	0.00	0.00	
9,800.00	89.80	179.66	9,129.36	-378.60	-310.69	389.16	0.00	0.00	0.00	
9,900.00	89.80	179.66	9,129.71	-478.60	-310.11	489.08	0.00	0.00	0.00	
10,000.00	89.80	179.66	9,130.06	-578.59	-309.52	589.00	0.00	0.00	0.00	

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Olive Won Unit 13H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3543.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3543.00ft
Site:	Olive Won	North Reference:	Grid
Well:	Olive Won Unit 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIG HOLE		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,100.00	89.80	179.66	9,130.40	-678.59	-308.94	688.91	0.00	0.00	0.00
10,200.00	89.80	179.66	9,130.75	-778.59	-308.35	788.83	0.00	0.00	0.00
10,300.00	89.80	179.66	9,131.10	-878.59	-307.77	888.75	0.00	0.00	0.00
10,400.00	89.80	179.66	9,131.45	-978.59	-307.18	988.66	0.00	0.00	0.00
10,500.00	89.80	179.66	9,131.80	-1,078.58	-306.60	1,088.58	0.00	0.00	0.00
10,600.00	89.80	179.66	9,132.15	-1,178.58	-306.01	1,188.50	0.00	0.00	0.00
10,700.00	89.80	179.66	9,132.50	-1,278.58	-305.43	1,288.42	0.00	0.00	0.00
10,800.00	89.80	179.66	9,132.85	-1,378.58	-304.84	1,388.33	0.00	0.00	0.00
10,900.00	89.80	179.66	9,133.20	-1,478.57	-304.26	1,488.25	0.00	0.00	0.00
11,000.00	89.80	179.66	9,133.54	-1,578.57	-303.67	1,588.17	0.00	0.00	0.00
11,100.00	89.80	179.66	9,133.89	-1,678.57	-303.09	1,688.08	0.00	0.00	0.00
11,200.00	89.80	179.66	9,134.24	-1,778.57	-302.50	1,788.00	0.00	0.00	0.00
11,300.00	89.80	179.66	9,134.59	-1,878.56	-301.92	1,887.92	0.00	0.00	0.00
11,400.00	89.80	179.66	9,134.94	-1,978.56	-301.33	1,987.83	0.00	0.00	0.00
11,500.00	89.80	179.66	9,135.29	-2,078.56	-300.75	2,087.75	0.00	0.00	0.00
11,600.00	89.80	179.66	9,135.64	-2,178.56	-300.16	2,187.67	0.00	0.00	0.00
11,700.00	89.80	179.66	9,135.99	-2,278.56	-299.58	2,287.59	0.00	0.00	0.00
11,800.00	89.80	179.66	9,136.33	-2,378.55	-298.99	2,387.50	0.00	0.00	0.00
11,868.45	89.80	179.66	9,136.57	-2,447.00	-298.59	2,455.90	0.00	0.00	0.00
PPP-1 Cross									
11,900.00	89.80	179.66	9,136.68	-2,478.55	-298.41	2,487.42	0.00	0.00	0.00
12,000.00	89.80	179.66	9,137.03	-2,578.55	-297.82	2,587.34	0.00	0.00	0.00
12,100.00	89.80	179.66	9,137.38	-2,678.55	-297.24	2,687.25	0.00	0.00	0.00
12,200.00	89.80	179.66	9,137.73	-2,778.54	-296.65	2,787.17	0.00	0.00	0.00
12,300.00	89.80	179.66	9,138.08	-2,878.54	-296.07	2,887.09	0.00	0.00	0.00
12,400.00	89.80	179.66	9,138.43	-2,978.54	-295.48	2,987.01	0.00	0.00	0.00
12,500.00	89.80	179.66	9,138.78	-3,078.54	-294.90	3,086.92	0.00	0.00	0.00
12,600.00	89.80	179.66	9,139.12	-3,178.53	-294.31	3,186.84	0.00	0.00	0.00
12,700.00	89.80	179.66	9,139.47	-3,278.53	-293.73	3,286.76	0.00	0.00	0.00
12,800.00	89.80	179.66	9,139.82	-3,378.53	-293.15	3,386.67	0.00	0.00	0.00
12,900.00	89.80	179.66	9,140.17	-3,478.53	-292.56	3,486.59	0.00	0.00	0.00
13,000.00	89.80	179.66	9,140.52	-3,578.52	-291.98	3,586.51	0.00	0.00	0.00
13,100.00	89.80	179.66	9,140.87	-3,678.52	-291.39	3,686.42	0.00	0.00	0.00
13,200.00	89.80	179.66	9,141.22	-3,778.52	-290.81	3,786.34	0.00	0.00	0.00
13,300.00	89.80	179.66	9,141.57	-3,878.52	-290.22	3,886.26	0.00	0.00	0.00
13,400.00	89.80	179.66	9,141.91	-3,978.52	-289.64	3,986.18	0.00	0.00	0.00
13,500.00	89.80	179.66	9,142.26	-4,078.51	-289.05	4,086.09	0.00	0.00	0.00
13,600.00	89.80	179.66	9,142.61	-4,178.51	-288.47	4,186.01	0.00	0.00	0.00
13,700.00	89.80	179.66	9,142.96	-4,278.51	-287.88	4,285.93	0.00	0.00	0.00
13,800.00	89.80	179.66	9,143.31	-4,378.51	-287.30	4,385.84	0.00	0.00	0.00
13,900.00	89.80	179.66	9,143.66	-4,478.50	-286.71	4,485.76	0.00	0.00	0.00
14,000.00	89.80	179.66	9,144.01	-4,578.50	-286.13	4,585.68	0.00	0.00	0.00
14,100.00	89.80	179.66	9,144.36	-4,678.50	-285.54	4,685.59	0.00	0.00	0.00
14,200.00	89.80	179.66	9,144.70	-4,778.50	-284.96	4,785.51	0.00	0.00	0.00
14,300.00	89.80	179.66	9,145.05	-4,878.49	-284.37	4,885.43	0.00	0.00	0.00
14,400.00	89.80	179.66	9,145.40	-4,978.49	-283.79	4,985.35	0.00	0.00	0.00
14,500.00	89.80	179.66	9,145.75	-5,078.49	-283.20	5,085.26	0.00	0.00	0.00
14,600.00	89.80	179.66	9,146.10	-5,178.49	-282.62	5,185.18	0.00	0.00	0.00
14,700.00	89.80	179.66	9,146.45	-5,278.49	-282.03	5,285.10	0.00	0.00	0.00
14,800.00	89.80	179.66	9,146.80	-5,378.48	-281.45	5,385.01	0.00	0.00	0.00
14,900.00	89.80	179.66	9,147.15	-5,478.48	-280.86	5,484.93	0.00	0.00	0.00
15,000.00	89.80	179.66	9,147.50	-5,578.48	-280.28	5,584.85	0.00	0.00	0.00
15,100.00	89.80	179.66	9,147.84	-5,678.48	-279.69	5,684.76	0.00	0.00	0.00
15,200.00	89.80	179.66	9,148.19	-5,778.47	-279.11	5,784.68	0.00	0.00	0.00
15,300.00	89.80	179.66	9,148.54	-5,878.47	-278.52	5,884.60	0.00	0.00	0.00

OXY

Planning Report

Database:	HOSPSP	Local Co-ordinate Reference:	Well Olive Won Unit 13H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3543.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3543.00ft
Site:	Olive Won	North Reference:	Grid
Well:	Olive Won Unit 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIG HOLE		
Design:	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
15,400.00	89.80	179.66	9,148.89	-5,978.47	-277.94	5,984.52	0.00	0.00	0.00	
15,500.00	89.80	179.66	9,149.24	-6,078.47	-277.35	6,084.43	0.00	0.00	0.00	
15,600.00	89.80	179.66	9,149.59	-6,178.46	-276.77	6,184.35	0.00	0.00	0.00	
15,700.00	89.80	179.66	9,149.94	-6,278.46	-276.18	6,284.27	0.00	0.00	0.00	
15,800.00	89.80	179.66	9,150.29	-6,378.46	-275.60	6,384.18	0.00	0.00	0.00	
15,900.00	89.80	179.66	9,150.63	-6,478.46	-275.02	6,484.10	0.00	0.00	0.00	
16,000.00	89.80	179.66	9,150.98	-6,578.46	-274.43	6,584.02	0.00	0.00	0.00	
16,100.00	89.80	179.66	9,151.33	-6,678.45	-273.85	6,683.94	0.00	0.00	0.00	
16,200.00	89.80	179.66	9,151.68	-6,778.45	-273.26	6,783.85	0.00	0.00	0.00	
16,300.00	89.80	179.66	9,152.03	-6,878.45	-272.68	6,883.77	0.00	0.00	0.00	
16,400.00	89.80	179.66	9,152.38	-6,978.45	-272.09	6,983.69	0.00	0.00	0.00	
16,500.00	89.80	179.66	9,152.73	-7,078.44	-271.51	7,083.60	0.00	0.00	0.00	
16,600.00	89.80	179.66	9,153.08	-7,178.44	-270.92	7,183.52	0.00	0.00	0.00	
16,700.00	89.80	179.66	9,153.42	-7,278.44	-270.34	7,283.44	0.00	0.00	0.00	
16,800.00	89.80	179.66	9,153.77	-7,378.44	-269.75	7,383.35	0.00	0.00	0.00	
16,900.00	89.80	179.66	9,154.12	-7,478.43	-269.17	7,483.27	0.00	0.00	0.00	
17,000.00	89.80	179.66	9,154.47	-7,578.43	-268.58	7,583.19	0.00	0.00	0.00	
17,100.00	89.80	179.66	9,154.82	-7,678.43	-268.00	7,683.11	0.00	0.00	0.00	
17,127.76	89.80	179.66	9,154.92	-7,706.19	-267.83	7,710.85	0.00	0.00	0.00	
TD at 17127.76' MD										

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Olive Won Unit - plan misses target center by 221.40ft at 9035.73ft MD (8947.45 TVD, 335.09 N, -299.98 E) - Point	0.00	0.00	9,102.00	492.83	-315.78	496,406.84	723,036.41	32.363320	-103.744858
FTP (Olive Won Unit - plan misses target center by 25.90ft at 9332.90ft MD (9102.83 TVD, 85.93 N, -311.34 E) - Point	0.00	0.00	9,127.71	92.82	-313.45	496,006.85	723,038.74	32.362220	-103.744857
PBHL (Olive Won Unit - plan hits target center - Point	0.00	0.00	9,154.92	-7,706.19	-267.83	488,208.27	723,084.35	32.340783	-103.744848

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
848.00	848.00	RUSTLER				
1,130.00	1,130.00	SALADO				
2,000.00	2,000.00	MARKER BED 126				
3,024.00	3,024.00	CASTILE				
4,434.00	4,434.00	DELAWARE				
4,482.00	4,482.00	BELL CANYON				
5,358.33	5,358.00	CHERRY CANYON				
6,578.33	6,561.00	BRUSHY CANYON				
8,389.87	8,345.00	BONE SPRING				

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Olive Won Unit 13H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3543.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3543.00ft
Site:	Olive Won	North Reference:	Grid
Well:	Olive Won Unit 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIG HOLE		
Design:	Permitting Plan		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,105.00	5,105.00	0.00	0.00	Build 2°/100'
5,605.14	5,602.60	38.30	-20.71	Hold 10° Tangent
8,516.59	8,469.80	483.14	-261.27	KOP, Build & Turn 10°/100'
9,502.76	9,128.32	-81.37	-312.43	Landing Point
11,868.45	9,136.57	-2,447.00	-298.59	PPP-1 Cross
17,127.76	9,154.92	-7,706.19	-267.83	TD at 17127.76' MD

Oxy USA Inc. - OLIVE WON UNIT 13H Drill Plan

1. Geologic Formations

TVD of Target (ft):	9155	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	17128	Deepest Expected Fresh Water (ft):	848

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	848	848	
Salado	1130	1130	Salt
Marker Bed 126	2000	2000	Salt
Castile	3024	3024	Salt
Delaware	4434	4434	Oil/Gas/Brine
Bell Canyon	4482	4482	Oil/Gas/Brine
Cherry Canyon	5358	5358	Oil/Gas/Brine
Brushy Canyon	6578	6561	Losses
Bone Spring	8390	8345	Oil/Gas
Bone Spring 1st			Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	14.75	0	918	0	918	11.75	47	J-55	BTC
Intermediate	10.625	0	8417	0	8417	8.625	32	L-80 HC	BTC
Production	7.875	0	17128	0	9155	5.5	20	P-110	DWC/C-XT

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

<i>All Casing SF Values will meet or exceed those below</i>			
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?	N
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-Q?	
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
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 ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	599	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	209	1.68	13.2	5%	6,828	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1044	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	1073	1.84	13.3	25%	7,917	Circulate	Class C+Ret.

Offline Cementing Request

Oxy requests a variance to cement the intermediate and production casing strings offline in accordance to the approved variances. Please see Offline Cementing sections of the Combined 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:
10.625" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	8417
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
Other*						
7.875" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	9155
		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.

	<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 with OXY/BLM in January 2026. 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	918	0	918	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	918	8417	918	8417	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	8417	17128	8417	9155	Water-Based or Oil-Based Mud	8.0 - 8.5	38-50	N/C

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

Logging, Coring and Testing.	
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
No	Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain
Additional logs planned	Interval
No	Resistivity
No	Density
Yes	CBL Production string
Yes	Mud log Bone Spring – TD
No	PEX

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4047 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	154°F

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the 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: 1542 bbls

<p>C-102</p> <p>Submit Electronically Via OCD Permitting</p>	<p>State of New Mexico Energy, Minerals, & Natural Resources Department OIL CONSERVATION DIVISION</p>	<p>Revised July 9, 2024 PAGE 1 OF 2</p>
		<p>Submittal Type: <input type="checkbox"/> Initial Submittal <input checked="" type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled</p>

WELL LOCATION INFORMATION

API Number 30-015-56527	Pool Code 39350	Pool Name LIVINGSTON RIDGE;BONE SPRING
Property Code 335973	Property Name OLIVE WON UNIT	Well Number 13H
OGRID No. 16696	Operator Name OXY USA INC.	Ground Level Elevation 3518'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
I	26	22S	31E		2446' FSL	1167' FEL	32.36196014	-103.74384352	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
O	35	22S	31E		20' FSL	1480' FEL	32.34078330	-103.74484803	EDDY

Dedicated Acres 960.00	Infill or Defining Well INFILL	Defining Well API 71H - 30-015-55183	Overlapping Spacing Unit (Y/N) N	Consolidation Code U
Order Numbers: R-23133			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
G	26	22S	31E		2338' FNL	1480' FEL	32.36331948	-103.74485735	EDDY


First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
J	26	22S	31E		2540' FSL	1480' FEL	32.36221999	-103.74485692	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
O	35	22S	31E		100' FSL	1480' FEL	32.34100320	-103.74484813	EDDY

Unitized Area or Area of Uniform Interest NMNM106319137	Spacing Unit Type: <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3518'
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<p>OPERATOR CERTIFICATIONS</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p><i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i></p> <p><u>Melissa Guidry</u> 03/18/26 Signature Date</p> <p><u>Melissa Guidry</u> Printed Name</p> <p><u>melissa_guidry@oxy.com</u> Email Address</p>	<p>SURVEYOR CERTIFICATIONS</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <div style="text-align: center;">  </div> <p>Signature and Seal of Professional Surveyor</p> <table style="width:100%;"> <tr> <td style="width:50%;">Certificate Number 21653</td> <td style="width:50%;">Date of Survey FEBRUARY 27, 2026</td> </tr> </table>	Certificate Number 21653	Date of Survey FEBRUARY 27, 2026
Certificate Number 21653	Date of Survey FEBRUARY 27, 2026		

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

OLIVE WON UNIT 13H

ACREAGE DEDICATION PLATS



SHL (NAD83) X:723352.17' / Y:495914.04' LAT:32.36196014 / LON:-103.74384352
SHL (NAD27) X:682169.59' / Y:495853.84' LAT:32.36183745 / LON:-103.74335529

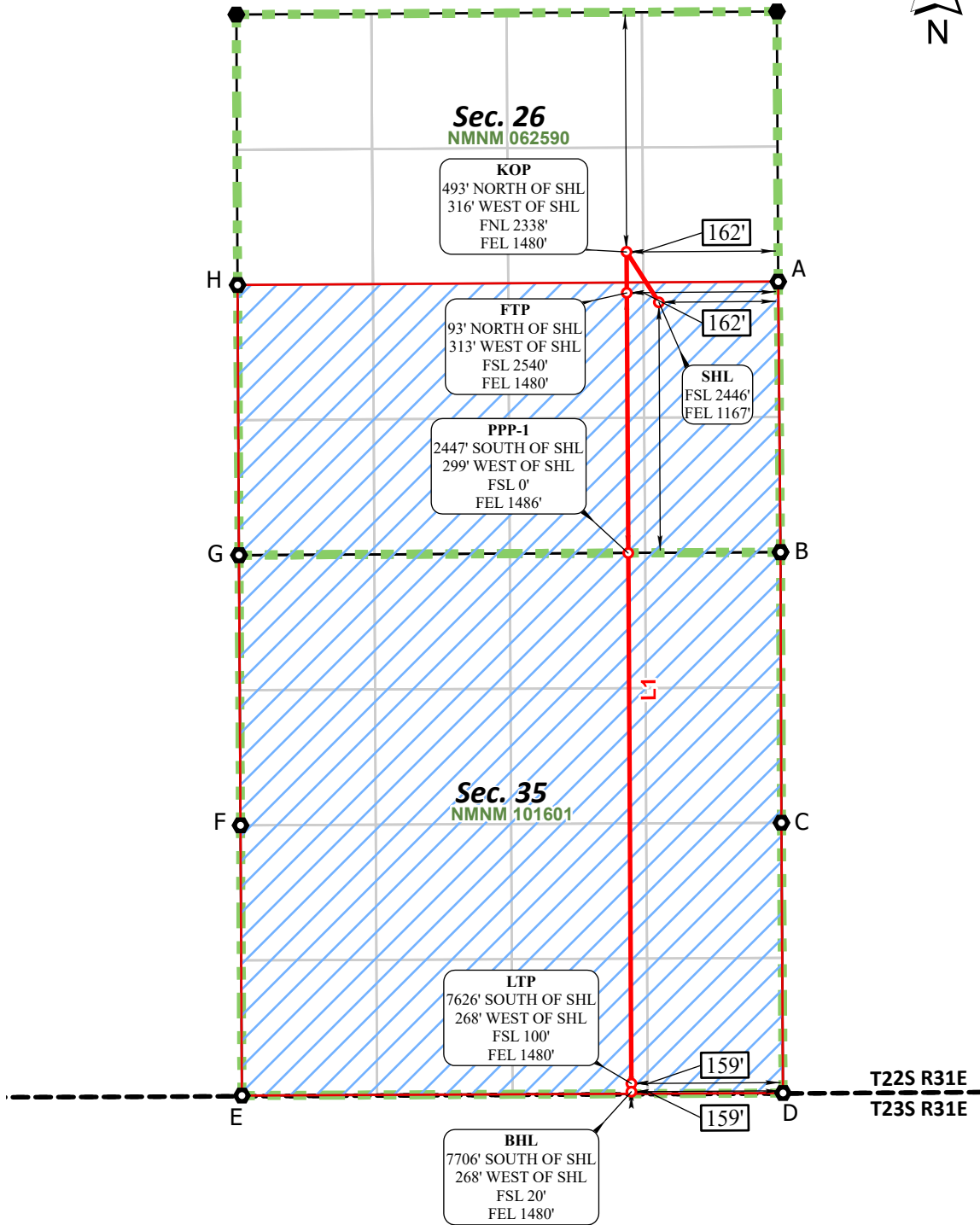
KOP (NAD83) X:723036.41' / Y:496406.84' LAT:32.36331948 / LON:-103.74485735
KOP (NAD27) X:681853.85' / Y:496346.63' LAT:32.36319679 / LON:-103.74436903

FTP (NAD83) X:723038.74' / Y:496006.85' LAT:32.36221999 / LON:-103.74485692
FTP (NAD27) X:681856.17' / Y:495946.65' LAT:32.36209729 / LON:-103.74436865

PPP-1 (NAD83) X:723053.60' / Y:493466.84' LAT:32.35523803 / LON:-103.74485402
PPP-1 (NAD27) X:681870.95' / Y:493406.71' LAT:32.35511530 / LON:-103.74436603

LTP (NAD83) X:723083.88' / Y:488288.27' LAT:32.34100320 / LON:-103.74484813
LTP (NAD27) X:681901.07' / Y:488228.28' LAT:32.34088040 / LON:-103.74436072

BHL (NAD83) X:723084.35' / Y:488208.27' LAT:32.34078330 / LON:-103.74484803
BHL (NAD27) X:681901.54' / Y:488148.28' LAT:32.34066049 / LON:-103.74436063



CORNER COORDINATES NAD 83, SPCS NM EAST

A - X: 724517.84' / Y:496116.14'
B - X: 724539.94' / Y:493474.89'
C - X: 724548.88' / Y:490833.64'
D - X: 724564.45' / Y:488195.28'
E - X: 719281.94' / Y:488170.27'
F - X: 719268.50' / Y:490808.20'
G - X: 719253.73' / Y:493446.25'
H - X: 719240.01' / Y:496083.00'

CORNER COORDINATES NAD 27, SPCS NM EAST

A - X: 683335.26' / Y:496055.94'
B - X: 683357.28' / Y:493414.76'
C - X: 683366.15' / Y:490773.58'
D - X: 683381.64' / Y:488135.29'
E - X: 678099.14' / Y:488110.28'
F - X: 678085.78' / Y:490748.14'
G - X: 678071.09' / Y:493386.12'
H - X: 678057.45' / Y:496022.80'

***FTP TO LTP LINE BEARINGS**

LINE	BEARING
L1	S 00°20'06" E ~ 7718.72'

***FTP TO LTP LEASE DISTANCES**

TRACT	DISTANCE
NMNM 062590	2540.06'
NMNM 101601	5178.66'
TOTAL	7718.72'



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

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

JOB No. 20251068_16769
REV 3 NDS 2/27/2026

Distances/areas relative to NAD 83 grid measurements. Combined Scale Factor: 0.99978405 and a Convergence Angle: 0.33175944°

OXY APD CHANGE SUNDRY LIST FORM

DATE SUNDRY WORKSHEET CREATED	3/18/2026
WELL NAME - NUMBER	EVIL OLIVE 26_35 FEDERAL COM 13H
API NUMBER	30-015-56527
ESTIMATED SPUD DATE	6/1/2026

ITEM		APD BASE LINE (For Regulatory to Complete)								SUNDRY PLAN (Groups to complete the latest plan)									
Date APD/BASE LINE APPROVED: 02/26/25										DATE Sundry Worksheet : 03/18/26									
Surface Planning	NAME	EVIL OLIVE 26_35 FEDERAL COM 13H								OLIVE WON UNIT 13H									
	NEL	NO								NO									
	SHL	2449' FSL 2231' FEL								2446' FSL 1167' FEL									
	PAD	LSTTNK 22531E_26_2								LSTTNK 22531E_26_3									
	BHL	20' FSL 1370' FEL								20' FSL 1480' FEL									
	HSU SIZE, ACRES	240								960									
	POOL	LIVINGSTON RIDGE								LIVINGSTON RIDGE									
TVD	9100								9155										
TARGET FORMATION	BONE SPRING								BONE SPRING										
Drilling	CASING PROGRAM	APD BASE LINE																	
		Section	Hole Size (in.)	MD	TVD	Csg OD (in)	(ppf)	Grade	Conn.	Section	Hole Size (in.)	MD	TVD	Csg OD (in)	Csg WT (ppf)	Grade	Conn.		
		Surface	17.5	901	901	13.375	54.5	J-55	BTC	Surface	14.75	918	918	11.75	47	J-55	BTC		
		Int	9.875	8461	8370	7.625	26.4	L-80 HC	BTC	Int	10.625	8417	8417	8.625	32	L-80 HC	BTC		
		Int2								Int2									
	Prod	6.75	17178	9100	5.5	20	P-110	WEDGE 461	Prod	7.875	17128	9155	5.5	20	P-110	DWC/CXT			
	Liner								Liner										
	CEMENT PROGRAM	APD BASE LINE																	
		Section/Stage	Slurry	Sacks	Yield (ft³/ft)	Density (lb/gal)	Excess	TOC	Placement	Description	Section/Stage	Slurry	Sacks	Yield (ft³/ft)	Density (lb/gal)	Excess	TOC	Placement	Description
		Surf	SURFACE - TAIL	941	1.33	14.8	100%		CIRCULATE	CLASS C+ACCEL	Surf	SURFACE - TAIL	599	1.33	14.8	100%		CIRCULATE	CLASS C+ACCEL
		Int/1	INTERMEDIATE 15 - TAIL	219	1.65	13.2	5%	6857	CIRCULATE	CLASS H+ACCEL, DISPER, SALT	Int	INTERMEDIATE 15 - TAIL	209	1.68	13.2	5%	6828	CIRCULATE	CLASS C+RET., Disp
		Int/2	INTERMEDIATE 25 - TAIL BH	1225	1.71	13.3	25%		BRADENHEAD	CLASS C+ACCEL	Int	INTERMEDIATE 25 - TAIL BH	1044	1.71	13.3	25%		BRADENHEAD	CLASS C+ACCEL
	Int2									Int2									
	Prod	PRODUCTION - TAIL	522	1.84	13.2	25%	7961	CIRCULATE	CLASS C/H+RET, DISPER, SALT	Prod	PRODUCTION - TAIL	1073	1.84	13.3	25%	7917	CIRCULATE	CLASS C+RET	
	VARIANCES	APD BASE LINE																	
BOP Break Tesing Variance																X			
SM Annular BOP Variance																X			
Bradenhead CBL Variance																X			
Offline Cementing Variance																X			
Production Annular Clearance Variance															X				
Flexible Choke Line Variance															X				
(Pilot Hole, Logs etc.)																			
SUNDRY PLAN																			
BOP Break Tesing Variance															X				
SM Annular BOP Variance															X				
Bradenhead CBL Variance															X				
Offline Cementing Variance															X				
Production Annular Clearance Variance															X				
Flexible Choke Line Variance															X				
(Pilot Hole, Logs etc.)																			

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 574068

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 574068
	Action Type: [C-103A] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.	4/21/2026
ward.rikala	Post Bradenhead cement squeeze, a CBL will be required. If zonal isolation was not achieved per OCD requirements, then remedial work is required before operations can continue.	4/21/2026
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	4/21/2026