**Well Name:** HEADS CC 9-4 FEDERAL COM

**Well Location:** T24S / R29E / SEC 9 / SWSW / 32.225542 / -103.995192

**County or Parish/State:** EDDY / NM

**Well Number:** 31H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:**

**Lease Number:** NMNM099034, NMNM99034

**Unit or CA Name:**

**Unit or CA Number:**

**US Well Number:** 3001547189

**Well Status:** Approved Application for Permit to Drill

**Operator:** OXY USA INCORPORATED

## Notice of Intent

**Sundry ID:** 2673116

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 05/25/2022

**Time Sundry Submitted:** 02:04

**Date proposed operation will begin:** 06/17/2022

**Procedure Description:** 6/8/22 Drill Plan Change- An 8-3/4" hole size will be drilled from the ICP to the landing point to resolve the 0.422" clearance concern. OXY USA Inc. respectfully requests approval to amend the subject well APD with the following changes: 1280 acre horizontal spacing unit, BHL well spacing, casing, cement, mud, BOP, wellhead, and directional plan. The following documents are attached: Amended C-102, directional survey, directional plot, wellhead diagram, drill plan, and casing data sheets.

## NOI Attachments

**Procedure Description**

HeadsCC9_4FederalCom31H_TNSWedge461_7.000in_32.00__P110CY_20220524090418.pdf

HeadsCC9_4FederalCom31H_TNSWedge461_5.500in_20.00__P110CY_20220524090417.pdf

HeadsCC9_4FederalCom31H_TNSWedge441_5.500in_20.00__P110CY_20220524090417.pdf

HeadsCC9_4FederalCom31H_DirectPlot_20220524090413.pdf

22_16_HEADS_CC_9_4_FED_COM_31H_C102_5.17.22_FLAT_20220524090413.pdf

HeadsCC9_4FederalCom31H_DirectPlan_20220524090413.pdf

HeadsCC9_4FederalCom31H_TNSWedge425_5.500in_20.00__P110CY_20220524090413.pdf

HeadsCC9_4FederalCom31H_10K_3_String_Adapt_20220524090414.pdf

**Well Name:** HEADS CC 9-4 FEDERAL COM

**Well Location:** T24S / R29E / SEC 9 / SWSW / 32.225542 / -103.995192

**County or Parish/State:** EDDY / NM

**Well Number:** 31H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:**

**Lease Number:** NMNM099034, NMNM99034

**Unit or CA Name:**

**Unit or CA Number:**

**US Well Number:** 3001547189

**Well Status:** Approved Application for Permit to Drill

**Operator:** OXY USA INCORPORATED

HeadsCC9_4FederalCom31H_DrillPlan_20220524090414.pdf

## Conditions of Approval

**Additional**

Heads_CC_9_4_Federal_Com_31H_DrillingCOA_Sundry_2673116_20220609101225.pdf

092429M_Sundry_2673116_Heads_CC_9_4_Federal_Com_31H_Eddy_NMNM99034_Oxy_13_22_6_7_2022_NMK_20220609101152.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:** STEPHEN JANACEK

**Signed on:** JUN 08, 2022 09:23 AM

**Name:** OXY USA INCORPORATED

**Title:** Regulatory Engineer

**Street Address:** 5 Greenway Plaza, Suite 110

**City:** Houston **State:** TX

**Phone:** (713) 497-2417

**Email address:** stephen_janacek@oxy.com

## Field

**Representative Name:**

**Street Address:**

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

**Phone:**

**Email address:**

## BLM Point of Contact

**BLM POC Name:** NDUNGU KAMAU

**BLM POC Title:** Petroleum Engineering Technician

**BLM POC Phone:** 5752345938

**BLM POC Email Address:** nkamau@blm.gov

**Disposition:** Approved

**Disposition Date:** 06/13/2022

**Signature:** Chris Walls

092429M Sundry_2673116 Heads CC 9_4 Federal Com 31H Eddy NMNM99034 Oxy 13-22 6-7-2022 NMK

**Heads CC 9_4 Federal Com 31H**

| 13 3/8 | surface csg in a | 17 1/2 | inch hole. | | Design Factors | | | Surface | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | #/ft | Grade | Coupling | Body | Collapse | Burst | Length | B@s | a-B | a-C | Weight | |
| "A" | 54.50 | J 55 | BTC | 83.72 | 13.22 | 0.56 | 187 | 33 | 0.97 | 25.48 | 10,192 | |
| "B" | | | BTC | | | | 0 | | | | 0 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: | 1,500 | | Tail Cmt | does not | circ to sfc. | | Totals: | 187 | | | | 10,192 |

Comparison of Proposed to Minimum Required Cement Volumes

| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | Min Dist Hole-Cplg |
|---|---|---|---|---|---|---|---|---|---|
| 17 1/2 | 0.6946 | 195 | 259 | 130 | 100 | 8.80 | 2810 | 3M | 1.56 |

Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK. Alternate Burst = 0.97 > 0.7 therefore okay.

| 9 5/8 | casing inside the | 13 3/8 | | | Design Factors | | | Int 1 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | #/ft | Grade | Coupling | Body | Collapse | Burst | Length | B@s | a-B | a-C | Weight | |
| "A" | 40.00 | HCL 80 | BTC | 2.44 | 0.87 | 0.88 | 9,383 | 1 | 1.33 | 1.51 | 375,320 | |
| "B" | | | | | | | 0 | | | | 0 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: | | | | | | | Totals: | 9,383 | | | | 375,320 |
| The cement volume(s) are intended to achieve a top of | | | | 0 | ft from surface or a | | 187 | | | | overlap. | |

| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | Min Dist Hole-Cplg |
|---|---|---|---|---|---|---|---|---|---|
| 12 1/4 | 0.3132 | 1891 | 3409 | 2948 | 16 | 10.00 | 4329 | 5M | 0.81 |

Class 'H' tail cmt yld > 1.20

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 0.61, b, c, d <0.70 a Problem!! Alternate Burst = 1.33 > 1 therefore okay & Alternate Collapse = 1.31 > 1.125 therefore keep 1/3 fluid filled.

| 7 | casing inside the | 9 5/8 | | | Design Factors | | | Prod 1 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | #/ft | Grade | Coupling | Joint | Collapse | Burst | Length | B@s | a-B | a-C | Weight | |
| "A" | 32.00 | P 110 | DQX | 3.19 | 1.67 | 1.9 | 9,933 | 2 | 2.88 | 2.53 | 317,856 | |
| "B" | 20.00 | P 110 | DQX | 215.10 | 1.70 | 1.92 | 11,041 | 2 | 2.91 | 2.56 | 220,820 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: | 2,185 | | | | | | Totals: | 20,974 | | | | 538,676 |
| The cement volume(s) are intended to achieve a top of | | | | 8883 | ft from surface or a | | 500 | | | | overlap. | |

| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | Min Dist Hole-Cplg |
|---|---|---|---|---|---|---|---|---|---|
| 8 3/4 | 0.1503 | 2317 | 3197 | 1822 | 76 | 12.50 | | | 0.50 |

Class 'C' tail cmt yld > 1.35

#N/A

| 0 | | 7 | | | Design Factors | | | <Choose Casing> | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | #/ft | Grade | Coupling | #N/A | Collapse | Burst | Length | B@s | a-B | a-C | Weight | |
| "A" | | | 0.00 | | | | 0 | | | | 0 | |
| "B" | | | 0.00 | | | | 0 | | | | 0 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: | | | | | | | Totals: | 0 | | | | 0 |
| Cmt vol calc below includes this csg, TOC intended | | | | #N/A | ft from surface or a | | #N/A | | | | overlap. | |

| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | Min Dist Hole-Cplg |
|---|---|---|---|---|---|---|---|---|---|
| 0 | | #N/A | #N/A | 0 | #N/A | | | | |

#N/A Capitan Reef est top XXXX.

# PECOS DISTRICT
# DRILLING CONDITIONS OF APPROVAL

***ALL PREVIOUS COAs STILL APPLY.***

| | |
|---|---|
| **OPERATOR'S NAME:** | OXY USA Inc. |
| **LEASE NO.:** | NMNM099034 |
| **LOCATION:** | Section 9, T.24 S., R.29 E., NMP |
| **COUNTY:** | Eddy County, New Mexico |

| | |
|---|---|
| **WELL NAME & NO.:** | HEADS CC 9-4 FEDERAL COM / 31H |
| **SURFACE HOLE FOOTAGE:** | 250'/S & 880'/W |
| **BOTTOM HOLE FOOTAGE** | 20'/N & 330'/W |

| | |
|---|---|
| **WELL NAME & NO.:** | HEADS CC 9-4 FEDERAL COM / 32H |
| **SURFACE HOLE FOOTAGE:** | 250'/S & 880'/W |
| **BOTTOM HOLE FOOTAGE** | 20'/N & 330'/W |

| | |
|---|---|
| **WELL NAME & NO.:** | HEADS CC 9-4 FEDERAL COM / 33H |
| **SURFACE HOLE FOOTAGE:** | 250'/S & 880'/W |
| **BOTTOM HOLE FOOTAGE** | 20'/N & 330'/W |

| | |
|---|---|
| **WELL NAME & NO.:** | HEADS CC 9-4 FEDERAL COM / 36H |
| **SURFACE HOLE FOOTAGE:** | 250'/S & 880'/W |
| **BOTTOM HOLE FOOTAGE** | 20'/N & 330'/W |

| | |
|---|---|
| **WELL NAME & NO.:** | HEADS CC 9-4 FEDERAL COM / 38H |
| **SURFACE HOLE FOOTAGE:** | 250'/S & 880'/W |
| **BOTTOM HOLE FOOTAGE** | 20'/N & 330'/W |

COA

| | | | |
|---|---|---|---|
| H2S | ○ Yes | ◉ No | |
| Potash | ◉ None | ○ Secretary | ○ R-111-P |
| Cave/Karst Potential | ○ Low | ◉ Medium | ○ High |
| Cave/Karst Potential | ○ Critical | | |
| Variance | ○ None | ◉ Flex Hose | ○ Other |
| Wellhead | ○ Conventional | ○ Multibowl | ◉ Both |
| Other | ☐ 4 String Area | ☐ Capitan Reef | ☐ WIPP |
| Other | ☑ Fluid Filled | ☑ Cement Squeeze | ☐ Pilot Hole |
| Special Requirements | ☐ Water Disposal | ☑ COM | ☐ Unit |

## A. CASING

**Casing Design:**

1. The **13-3/8** inch surface casing shall be set at approximately **544** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) 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. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

    **Intermediate casing must be kept 1/3 fluid filled to meet BLM minimum collapse requirement.**

2. The **9-5/8** inch intermedate casing shall be set at approximately **9379** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

    **Option 1 (Single Stage):**

    - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

    **Option 2:**

    Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

    a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

    b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.
  **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

❖ In **Medium Cave/Karst Areas** if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

**Operator has proposed to pump down 13-3/8" X 9-5/8" annulus. Operator must run a CBL or Echo-meter from TD of the 9-5/8" casing to surface. Submit results to BLM.**

3. The minimum required fill of cement behind the **7 x 5-1/2** inch production casing and a **8-3/4 x 8-1/2** inch production hole is:

**Option 1 (Single Stage):**

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

**Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

**Operator has proposed to pump down 9-5/8" X 7 x 5-1/2" annulus. Operator must run a CBL or Echo-meter from TD of the 7 x 5-1/2" casing to surface. Submit results to BLM.**

**B. SPECIAL REQUIREMENT (S)**

**BOPE Break Testing Variance (Note: For 5M BOPE or less)**

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.

- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required.

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☑ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number | Pool Code | Pool Name |
|---|---|---|
| 30-015-47189 | 98220 | PURPLE SAGE WOLFCAMP |

| Property Code | Property Name | Well Number |
|---|---|---|
| 328290 | HEADS CC 9_4 FEDERAL COM | 31H |

| OGRID No. | Operator Name | Elevation |
|---|---|---|
| 16696 | OXY USA INC. | 2926.8' |

## Surface Location

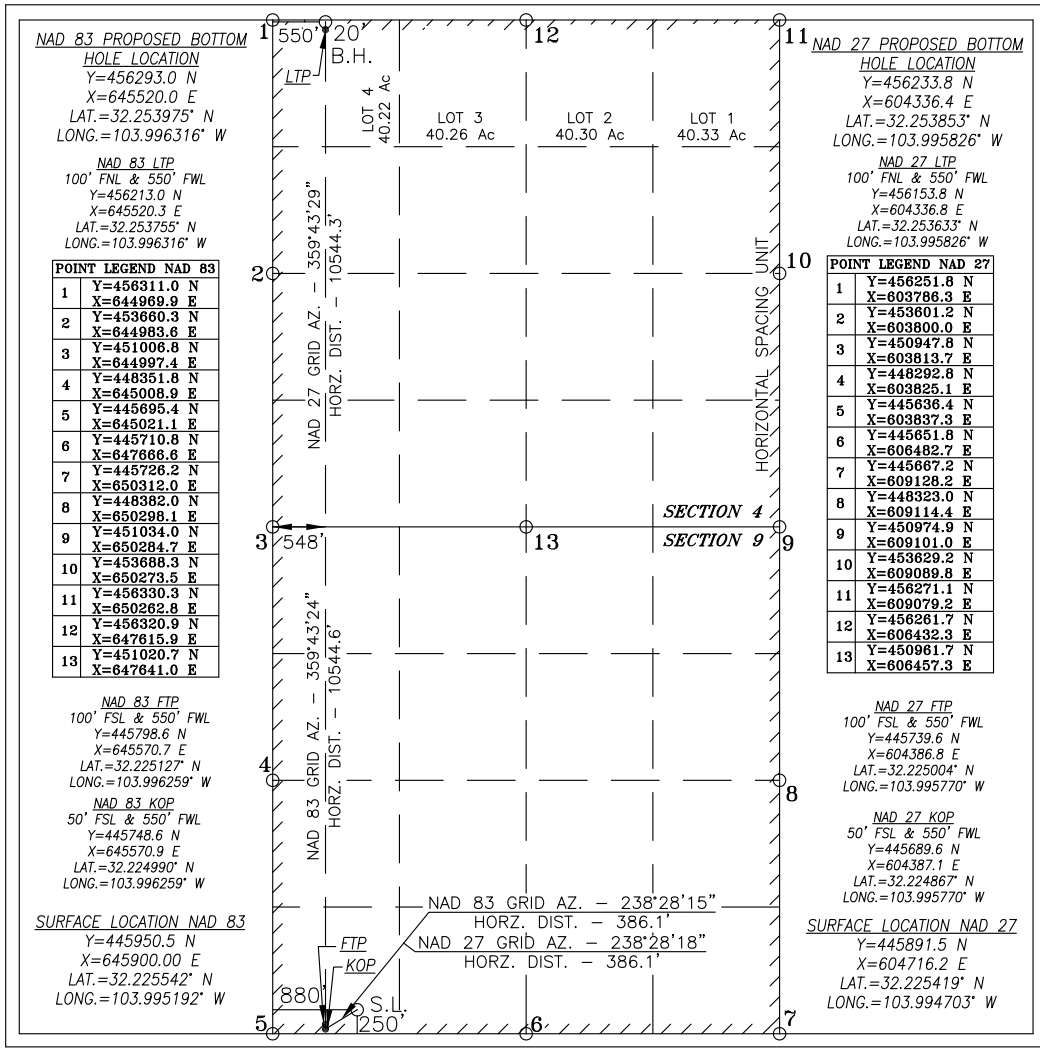
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| M | 9 | 24-S | 29-E | | 250 | SOUTH | 880 | WEST | EDDY |

## Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 4 | 24-S | 29-E | | 20 | NORTH | 550 | WEST | EDDY |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|---|---|---|---|
| 1280 | Y | | |

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




## OPERATOR CERTIFICATION

*I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and 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 such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.*

Stephen Janacek 5/17/22
Signature Date

STEPHEN JANACEK
Printed Name

STEPHEN_JANACEK@OXY.COM
E-mail Address

## SURVEYOR CERTIFICATION

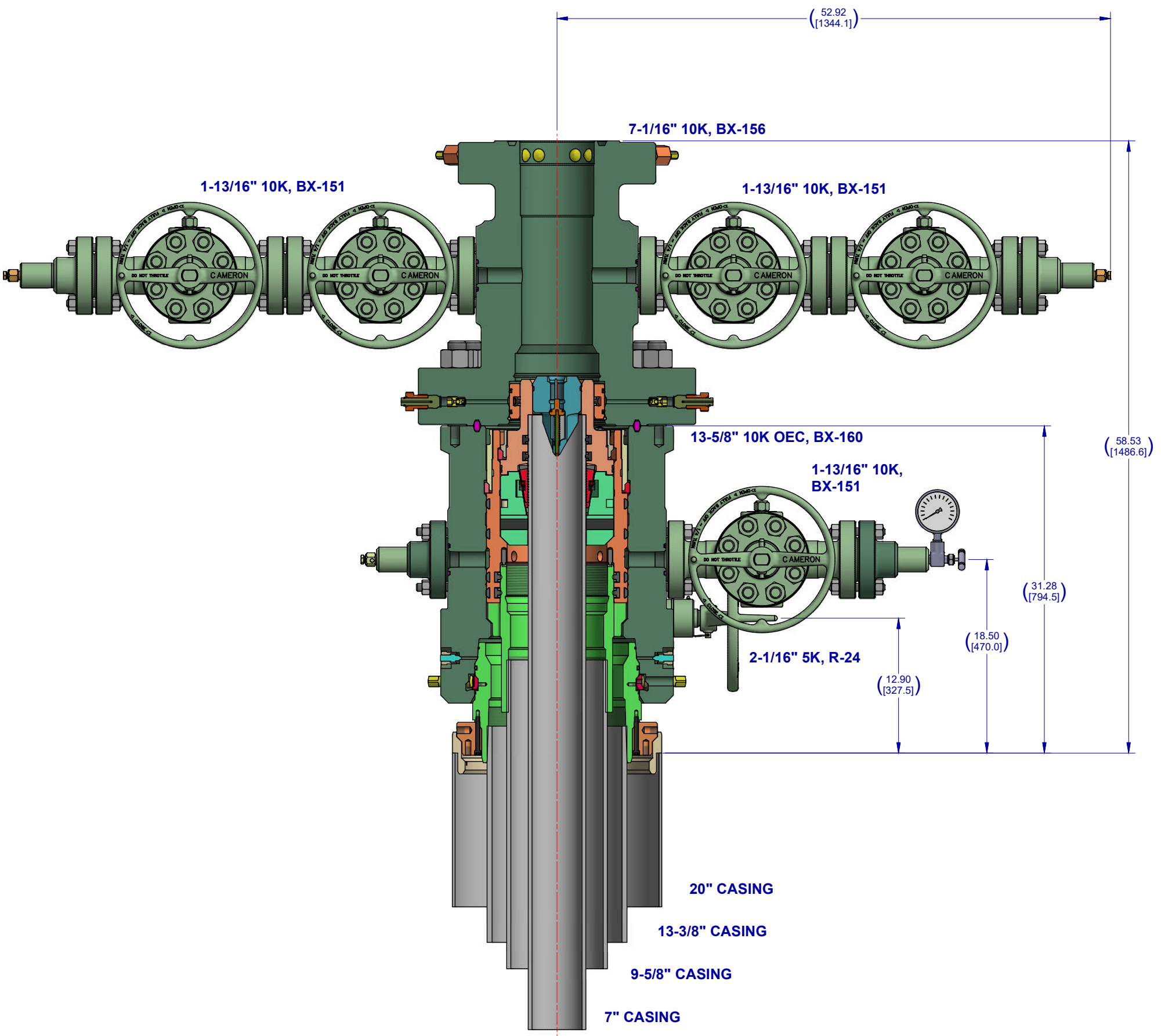
*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.*

MARCH 5, 2019
Date of Survey

Signature & Seal of Professional Surveyor

CHAD L. HARCROW
NEW MEXICO
17777
LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 1/20/22
Certificate No. CHAD HARCROW 17777
W.O. #22-16 DRAWN BY: WN




**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 | | CAMERON A Schlumberger Company | SURFACE SYSTEMS |
| | DRAWN BY: D. GOTTUNG | DATE 18 Feb 22 | | |
| MATERIAL & HEAT TREAT | CHECKED BY: D. GOTTUNG | DATE 18 Feb 22 | OXY 13-5/8" 10K ADAPT 20" X 13-3/8" X 9-5/8" X 7" | |
| | APPROVED BY: D. GOTTUNG | DATE 18 Feb 22 | | |
| ESTIMATED WEIGHT: 6115.068 LBS 2773.748 KG | INITIAL USE B/M: | | SHEET 1 OF 1 | SD-053434-94-12 REV: 01 |

INVENTOR - D

# OXY

**PRD NM DIRECTIONAL PLANS (NAD 1983)**
**Heads CC 9_4**
**Heads CC 9_4 Federal Com 31H**

**Wellbore #1**

**Plan: Permitting Plan**

# Standard Planning Report

**19 May, 2022**

# OXY

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | HOPSPP | **Local Co-ordinate Reference:** | Well Heads CC 9_4 Federal Com 31H |
| **Company:** | ENGINEERING DESIGNS | **TVD Reference:** | RKB=26.5' @ 2953.30ft |
| **Project:** | PRD NM DIRECTIONAL PLANS (NAD 1983) | **MD Reference:** | RKB=26.5' @ 2953.30ft |
| **Site:** | Heads CC 9_4 | **North Reference:** | Grid |
| **Well:** | Heads CC 9_4 Federal Com 31H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Permitting Plan | | |

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

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | |
| **Map Zone:** | New Mexico Eastern Zone | | Using geodetic scale factor |

**Site** Heads CC 9_4

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 446,198.60 usft | **Latitude:** | 32.226200 |
| **From:** | Map | **Easting:** | 648,677.50 usft | **Longitude:** | -103.986208 |
| **Position Uncertainty:** | 2.00 ft | **Slot Radius:** | 13.200 in | **Grid Convergence:** | 0.19 ° |

**Well** Heads CC 9_4 Federal Com 31H

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | -248.12 ft | **Northing:** | 445,950.50 usft | **Latitude:** | 32.225542 |
| | **+E/-W** | -2,777.72 ft | **Easting:** | 645,900.00 usft | **Longitude:** | -103.995193 |
| **Position Uncertainty** | | 1.00 ft | **Wellhead Elevation:** | 0.00 ft | **Ground Level:** | 2,926.80 ft |

**Wellbore** Wellbore #1

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | HDGM_FILE | 7/18/2019 | 6.95 | 59.95 | 47,902.20000000 |

**Design** Permitting Plan

**Audit Notes:**

| | | | | | |
|---|---|---|---|---|---|
| **Version:** | | **Phase:** | PROTOTYPE | **Tie On Depth:** | 0.00 |

| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
|---|---|---|---|---|
| | 0.00 | 0.00 | 0.00 | 357.90 |

**Plan Survey Tool Program** **Date** 5/18/2022

| | Depth From (ft) | Depth To (ft) | Survey (Wellbore) | Tool Name | Remarks |
|---|---|---|---|---|---|
| 1 | 0.00 | 20,974.10 | Permitting Plan (Wellbore #1) | B001Mb_MWD+HRGM | |
| | | | | OWSG MWD + HRGM | |

**Plan Sections**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,530.00 | 0.00 | 0.00 | 4,530.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,529.91 | 10.00 | 201.46 | 5,524.84 | -80.99 | -31.85 | 1.00 | 1.00 | 0.00 | 201.46 | |
| 9,483.18 | 10.00 | 201.46 | 9,418.07 | -719.80 | -283.02 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10,478.65 | 90.27 | 359.72 | 10,082.00 | -151.91 | -329.33 | 10.00 | 8.06 | 15.90 | 157.94 | FTP (Heads CC 9_4 |
| 20,974.13 | 90.27 | 359.72 | 10,033.30 | 10,343.33 | -380.03 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL (Heads CC |

# OXY

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | HOPSPP | **Local Co-ordinate Reference:** | Well Heads CC 9_4 Federal Com 31H |
| **Company:** | ENGINEERING DESIGNS | **TVD Reference:** | RKB=26.5' @ 2953.30ft |
| **Project:** | PRD NM DIRECTIONAL PLANS (NAD 1983) | **MD Reference:** | RKB=26.5' @ 2953.30ft |
| **Site:** | Heads CC 9_4 | **North Reference:** | Grid |
| **Well:** | Heads CC 9_4 Federal Com 31H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Permitting Plan | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 0.00 | 0.00 | 1,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 0.00 | 0.00 | 1,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 0.00 | 0.00 | 1,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 0.00 | 0.00 | 1,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 0.00 | 0.00 | 2,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 0.00 | 0.00 | 2,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 0.00 | 0.00 | 2,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 0.00 | 0.00 | 2,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 0.00 | 0.00 | 2,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 0.00 | 0.00 | 2,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 0.00 | 0.00 | 2,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 0.00 | 0.00 | 2,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 0.00 | 0.00 | 2,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 0.00 | 0.00 | 3,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 0.00 | 0.00 | 3,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 0.00 | 0.00 | 3,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 0.00 | 0.00 | 3,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 0.00 | 0.00 | 3,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 0.00 | 0.00 | 3,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 0.00 | 0.00 | 3,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 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 |
| 4,530.00 | 0.00 | 0.00 | 4,530.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 0.70 | 201.46 | 4,600.00 | -0.40 | -0.16 | -0.39 | 1.00 | 1.00 | 0.00 |
| 4,700.00 | 1.70 | 201.46 | 4,699.98 | -2.35 | -0.92 | -2.31 | 1.00 | 1.00 | 0.00 |
| 4,800.00 | 2.70 | 201.46 | 4,799.90 | -5.92 | -2.33 | -5.83 | 1.00 | 1.00 | 0.00 |
| 4,900.00 | 3.70 | 201.46 | 4,899.74 | -11.11 | -4.37 | -10.95 | 1.00 | 1.00 | 0.00 |
| 5,000.00 | 4.70 | 201.46 | 4,999.47 | -17.93 | -7.05 | -17.66 | 1.00 | 1.00 | 0.00 |
| 5,100.00 | 5.70 | 201.46 | 5,099.06 | -26.36 | -10.37 | -25.97 | 1.00 | 1.00 | 0.00 |
| 5,200.00 | 6.70 | 201.46 | 5,198.47 | -36.42 | -14.32 | -35.87 | 1.00 | 1.00 | 0.00 |
| 5,300.00 | 7.70 | 201.46 | 5,297.68 | -48.08 | -18.90 | -47.35 | 1.00 | 1.00 | 0.00 |

# OXY
## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | HOPSPP | **Local Co-ordinate Reference:** | Well Heads CC 9_4 Federal Com 31H |
| **Company:** | ENGINEERING DESIGNS | **TVD Reference:** | RKB=26.5' @ 2953.30ft |
| **Project:** | PRD NM DIRECTIONAL PLANS (NAD 1983) | **MD Reference:** | RKB=26.5' @ 2953.30ft |
| **Site:** | Heads CC 9_4 | **North Reference:** | Grid |
| **Well:** | Heads CC 9_4 Federal Com 31H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Permitting Plan | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 5,400.00 | 8.70 | 201.46 | 5,396.66 | -61.35 | -24.12 | -60.43 | 1.00 | 1.00 | 0.00 |
| 5,500.00 | 9.70 | 201.46 | 5,495.37 | -76.23 | -29.97 | -75.08 | 1.00 | 1.00 | 0.00 |
| 5,529.91 | 10.00 | 201.46 | 5,524.84 | -80.99 | -31.85 | -79.77 | 1.00 | 1.00 | 0.00 |
| 5,600.00 | 10.00 | 201.46 | 5,593.87 | -92.32 | -36.30 | -90.92 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 10.00 | 201.46 | 5,692.35 | -108.48 | -42.65 | -106.84 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 10.00 | 201.46 | 5,790.83 | -124.64 | -49.01 | -122.75 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 10.00 | 201.46 | 5,889.31 | -140.80 | -55.36 | -138.67 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 10.00 | 201.46 | 5,987.79 | -156.96 | -61.71 | -154.58 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 10.00 | 201.46 | 6,086.27 | -173.11 | -68.07 | -170.50 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 10.00 | 201.46 | 6,184.75 | -189.27 | -74.42 | -186.41 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 10.00 | 201.46 | 6,283.24 | -205.43 | -80.77 | -202.33 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 10.00 | 201.46 | 6,381.72 | -221.59 | -87.13 | -218.24 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 10.00 | 201.46 | 6,480.20 | -237.75 | -93.48 | -234.16 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 10.00 | 201.46 | 6,578.68 | -253.91 | -99.83 | -250.07 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 10.00 | 201.46 | 6,677.16 | -270.07 | -106.19 | -265.99 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 10.00 | 201.46 | 6,775.64 | -286.23 | -112.54 | -281.90 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 10.00 | 201.46 | 6,874.12 | -302.39 | -118.89 | -297.82 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 10.00 | 201.46 | 6,972.60 | -318.55 | -125.25 | -313.73 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 10.00 | 201.46 | 7,071.08 | -334.71 | -131.60 | -329.65 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 10.00 | 201.46 | 7,169.56 | -350.86 | -137.96 | -345.56 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 10.00 | 201.46 | 7,268.05 | -367.02 | -144.31 | -361.48 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 10.00 | 201.46 | 7,366.53 | -383.18 | -150.66 | -377.39 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 10.00 | 201.46 | 7,465.01 | -399.34 | -157.02 | -393.31 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 10.00 | 201.46 | 7,563.49 | -415.50 | -163.37 | -409.22 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 10.00 | 201.46 | 7,661.97 | -431.66 | -169.72 | -425.14 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 10.00 | 201.46 | 7,760.45 | -447.82 | -176.08 | -441.05 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 10.00 | 201.46 | 7,858.93 | -463.98 | -182.43 | -456.97 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 10.00 | 201.46 | 7,957.41 | -480.14 | -188.78 | -472.88 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 10.00 | 201.46 | 8,055.89 | -496.30 | -195.14 | -488.80 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 10.00 | 201.46 | 8,154.38 | -512.45 | -201.49 | -504.71 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 10.00 | 201.46 | 8,252.86 | -528.61 | -207.84 | -520.63 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 10.00 | 201.46 | 8,351.34 | -544.77 | -214.20 | -536.54 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 10.00 | 201.46 | 8,449.82 | -560.93 | -220.55 | -552.46 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 10.00 | 201.46 | 8,548.30 | -577.09 | -226.90 | -568.37 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 10.00 | 201.46 | 8,646.78 | -593.25 | -233.26 | -584.29 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 10.00 | 201.46 | 8,745.26 | -609.41 | -239.61 | -600.20 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 10.00 | 201.46 | 8,843.74 | -625.57 | -245.96 | -616.12 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 10.00 | 201.46 | 8,942.22 | -641.73 | -252.32 | -632.03 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 10.00 | 201.46 | 9,040.70 | -657.89 | -258.67 | -647.94 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 10.00 | 201.46 | 9,139.19 | -674.05 | -265.03 | -663.86 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 10.00 | 201.46 | 9,237.67 | -690.20 | -271.38 | -679.77 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 10.00 | 201.46 | 9,336.15 | -706.36 | -277.73 | -695.69 | 0.00 | 0.00 | 0.00 |
| 9,483.18 | 10.00 | 201.46 | 9,418.07 | -719.80 | -283.02 | -708.93 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 8.46 | 205.76 | 9,434.67 | -722.28 | -284.09 | -711.36 | 10.00 | -9.13 | 25.54 |
| 9,600.00 | 4.44 | 302.45 | 9,534.22 | -726.84 | -290.57 | -715.68 | 10.00 | -4.02 | 96.69 |
| 9,700.00 | 12.94 | 343.19 | 9,633.05 | -714.01 | -297.10 | -702.62 | 10.00 | 8.50 | 40.74 |
| 9,800.00 | 22.70 | 350.72 | 9,728.15 | -684.17 | -303.47 | -672.57 | 10.00 | 9.75 | 7.53 |
| 9,900.00 | 32.59 | 353.84 | 9,816.63 | -638.24 | -309.49 | -626.44 | 10.00 | 9.90 | 3.12 |
| 10,000.00 | 42.53 | 355.62 | 9,895.80 | -577.60 | -314.97 | -565.65 | 10.00 | 9.94 | 1.78 |
| 10,100.00 | 52.50 | 356.83 | 9,963.26 | -504.11 | -319.76 | -492.03 | 10.00 | 9.96 | 1.21 |
| 10,200.00 | 62.47 | 357.75 | 10,016.95 | -419.99 | -323.70 | -407.82 | 10.00 | 9.97 | 0.92 |
| 10,300.00 | 72.44 | 358.52 | 10,055.25 | -327.80 | -326.67 | -315.58 | 10.00 | 9.97 | 0.77 |
| 10,400.00 | 82.42 | 359.21 | 10,076.99 | -230.34 | -328.60 | -218.12 | 10.00 | 9.98 | 0.69 |
| 10,478.65 | 90.27 | 359.72 | 10,082.00 | -151.91 | -329.33 | -139.72 | 10.00 | 9.98 | 0.66 |
| 10,500.00 | 90.27 | 359.72 | 10,081.90 | -130.56 | -329.43 | -118.38 | 0.00 | 0.00 | 0.00 |

# OXY

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | HOPSPP | **Local Co-ordinate Reference:** | Well Heads CC 9_4 Federal Com 31H |
| **Company:** | ENGINEERING DESIGNS | **TVD Reference:** | RKB=26.5' @ 2953.30ft |
| **Project:** | PRD NM DIRECTIONAL PLANS (NAD 1983) | **MD Reference:** | RKB=26.5' @ 2953.30ft |
| **Site:** | Heads CC 9_4 | **North Reference:** | Grid |
| **Well:** | Heads CC 9_4 Federal Com 31H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Permitting Plan | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 10,600.00 | 90.27 | 359.72 | 10,081.44 | -30.57 | -329.91 | -18.43 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.27 | 359.72 | 10,080.97 | 69.43 | -330.40 | 81.52 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.27 | 359.72 | 10,080.51 | 169.43 | -330.88 | 181.46 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.27 | 359.72 | 10,080.05 | 269.43 | -331.36 | 281.41 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 90.27 | 359.72 | 10,079.58 | 369.43 | -331.85 | 381.36 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.27 | 359.72 | 10,079.12 | 469.42 | -332.33 | 481.31 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.27 | 359.72 | 10,078.65 | 569.42 | -332.81 | 581.26 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 90.27 | 359.72 | 10,078.19 | 669.42 | -333.29 | 681.21 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 90.27 | 359.72 | 10,077.73 | 769.42 | -333.78 | 781.15 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 90.27 | 359.72 | 10,077.26 | 869.41 | -334.26 | 881.10 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 90.27 | 359.72 | 10,076.80 | 969.41 | -334.74 | 981.05 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.27 | 359.72 | 10,076.33 | 1,069.41 | -335.23 | 1,081.00 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.27 | 359.72 | 10,075.87 | 1,169.41 | -335.71 | 1,180.95 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.27 | 359.72 | 10,075.41 | 1,269.41 | -336.19 | 1,280.89 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 90.27 | 359.72 | 10,074.94 | 1,369.40 | -336.68 | 1,380.84 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.27 | 359.72 | 10,074.48 | 1,469.40 | -337.16 | 1,480.79 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.27 | 359.72 | 10,074.01 | 1,569.40 | -337.64 | 1,580.74 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.27 | 359.72 | 10,073.55 | 1,669.40 | -338.13 | 1,680.69 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.27 | 359.72 | 10,073.08 | 1,769.39 | -338.61 | 1,780.63 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.27 | 359.72 | 10,072.62 | 1,869.39 | -339.09 | 1,880.58 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.27 | 359.72 | 10,072.16 | 1,969.39 | -339.57 | 1,980.53 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.27 | 359.72 | 10,071.69 | 2,069.39 | -340.06 | 2,080.48 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.27 | 359.72 | 10,071.23 | 2,169.39 | -340.54 | 2,180.43 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.27 | 359.72 | 10,070.76 | 2,269.38 | -341.02 | 2,280.37 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.27 | 359.72 | 10,070.30 | 2,369.38 | -341.51 | 2,380.32 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.27 | 359.72 | 10,069.84 | 2,469.38 | -341.99 | 2,480.27 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.27 | 359.72 | 10,069.37 | 2,569.38 | -342.47 | 2,580.22 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.27 | 359.72 | 10,068.91 | 2,669.37 | -342.96 | 2,680.17 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.27 | 359.72 | 10,068.44 | 2,769.37 | -343.44 | 2,780.11 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.27 | 359.72 | 10,067.98 | 2,869.37 | -343.92 | 2,880.06 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.27 | 359.72 | 10,067.52 | 2,969.37 | -344.41 | 2,980.01 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.27 | 359.72 | 10,067.05 | 3,069.37 | -344.89 | 3,079.96 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.27 | 359.72 | 10,066.59 | 3,169.36 | -345.37 | 3,179.91 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.27 | 359.72 | 10,066.12 | 3,269.36 | -345.86 | 3,279.85 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.27 | 359.72 | 10,065.66 | 3,369.36 | -346.34 | 3,379.80 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.27 | 359.72 | 10,065.20 | 3,469.36 | -346.82 | 3,479.75 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.27 | 359.72 | 10,064.73 | 3,569.35 | -347.30 | 3,579.70 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.27 | 359.72 | 10,064.27 | 3,669.35 | -347.79 | 3,679.65 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 90.27 | 359.72 | 10,063.80 | 3,769.35 | -348.27 | 3,779.60 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.27 | 359.72 | 10,063.34 | 3,869.35 | -348.75 | 3,879.54 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.27 | 359.72 | 10,062.88 | 3,969.35 | -349.24 | 3,979.49 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 90.27 | 359.72 | 10,062.41 | 4,069.34 | -349.72 | 4,079.44 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 90.27 | 359.72 | 10,061.95 | 4,169.34 | -350.20 | 4,179.39 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 90.27 | 359.72 | 10,061.48 | 4,269.34 | -350.69 | 4,279.34 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 90.27 | 359.72 | 10,061.02 | 4,369.34 | -351.17 | 4,379.28 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 90.27 | 359.72 | 10,060.56 | 4,469.33 | -351.65 | 4,479.23 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 90.27 | 359.72 | 10,060.09 | 4,569.33 | -352.14 | 4,579.18 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 90.27 | 359.72 | 10,059.63 | 4,669.33 | -352.62 | 4,679.13 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 90.27 | 359.72 | 10,059.16 | 4,769.33 | -353.10 | 4,779.08 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 90.27 | 359.72 | 10,058.70 | 4,869.32 | -353.58 | 4,879.02 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 90.27 | 359.72 | 10,058.24 | 4,969.32 | -354.07 | 4,978.97 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 90.27 | 359.72 | 10,057.77 | 5,069.32 | -354.55 | 5,078.92 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 90.27 | 359.72 | 10,057.31 | 5,169.32 | -355.03 | 5,178.87 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 90.27 | 359.72 | 10,056.84 | 5,269.32 | -355.52 | 5,278.82 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 90.27 | 359.72 | 10,056.38 | 5,369.31 | -356.00 | 5,378.76 | 0.00 | 0.00 | 0.00 |

# OXY
## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | HOPSPP | **Local Co-ordinate Reference:** | Well Heads CC 9_4 Federal Com 31H |
| **Company:** | ENGINEERING DESIGNS | **TVD Reference:** | RKB=26.5' @ 2953.30ft |
| **Project:** | PRD NM DIRECTIONAL PLANS (NAD 1983) | **MD Reference:** | RKB=26.5' @ 2953.30ft |
| **Site:** | Heads CC 9_4 | **North Reference:** | Grid |
| **Well:** | Heads CC 9_4 Federal Com 31H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Permitting Plan | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 16,100.00 | 90.27 | 359.72 | 10,055.92 | 5,469.31 | -356.48 | 5,478.71 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 90.27 | 359.72 | 10,055.45 | 5,569.31 | -356.97 | 5,578.66 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 90.27 | 359.72 | 10,054.99 | 5,669.31 | -357.45 | 5,678.61 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 90.27 | 359.72 | 10,054.52 | 5,769.30 | -357.93 | 5,778.56 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 90.27 | 359.72 | 10,054.06 | 5,869.30 | -358.42 | 5,878.50 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 90.27 | 359.72 | 10,053.60 | 5,969.30 | -358.90 | 5,978.45 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 90.27 | 359.72 | 10,053.13 | 6,069.30 | -359.38 | 6,078.40 | 0.00 | 0.00 | 0.00 |
| 16,800.00 | 90.27 | 359.72 | 10,052.67 | 6,169.30 | -359.87 | 6,178.35 | 0.00 | 0.00 | 0.00 |
| 16,900.00 | 90.27 | 359.72 | 10,052.20 | 6,269.29 | -360.35 | 6,278.30 | 0.00 | 0.00 | 0.00 |
| 17,000.00 | 90.27 | 359.72 | 10,051.74 | 6,369.29 | -360.83 | 6,378.25 | 0.00 | 0.00 | 0.00 |
| 17,100.00 | 90.27 | 359.72 | 10,051.28 | 6,469.29 | -361.31 | 6,478.19 | 0.00 | 0.00 | 0.00 |
| 17,200.00 | 90.27 | 359.72 | 10,050.81 | 6,569.29 | -361.80 | 6,578.14 | 0.00 | 0.00 | 0.00 |
| 17,300.00 | 90.27 | 359.72 | 10,050.35 | 6,669.28 | -362.28 | 6,678.09 | 0.00 | 0.00 | 0.00 |
| 17,400.00 | 90.27 | 359.72 | 10,049.88 | 6,769.28 | -362.76 | 6,778.04 | 0.00 | 0.00 | 0.00 |
| 17,500.00 | 90.27 | 359.72 | 10,049.42 | 6,869.28 | -363.25 | 6,877.99 | 0.00 | 0.00 | 0.00 |
| 17,600.00 | 90.27 | 359.72 | 10,048.96 | 6,969.28 | -363.73 | 6,977.93 | 0.00 | 0.00 | 0.00 |
| 17,700.00 | 90.27 | 359.72 | 10,048.49 | 7,069.28 | -364.21 | 7,077.88 | 0.00 | 0.00 | 0.00 |
| 17,800.00 | 90.27 | 359.72 | 10,048.03 | 7,169.27 | -364.70 | 7,177.83 | 0.00 | 0.00 | 0.00 |
| 17,900.00 | 90.27 | 359.72 | 10,047.56 | 7,269.27 | -365.18 | 7,277.78 | 0.00 | 0.00 | 0.00 |
| 18,000.00 | 90.27 | 359.72 | 10,047.10 | 7,369.27 | -365.66 | 7,377.73 | 0.00 | 0.00 | 0.00 |
| 18,100.00 | 90.27 | 359.72 | 10,046.64 | 7,469.27 | -366.15 | 7,477.67 | 0.00 | 0.00 | 0.00 |
| 18,200.00 | 90.27 | 359.72 | 10,046.17 | 7,569.26 | -366.63 | 7,577.62 | 0.00 | 0.00 | 0.00 |
| 18,300.00 | 90.27 | 359.72 | 10,045.71 | 7,669.26 | -367.11 | 7,677.57 | 0.00 | 0.00 | 0.00 |
| 18,400.00 | 90.27 | 359.72 | 10,045.24 | 7,769.26 | -367.59 | 7,777.52 | 0.00 | 0.00 | 0.00 |
| 18,500.00 | 90.27 | 359.72 | 10,044.78 | 7,869.26 | -368.08 | 7,877.47 | 0.00 | 0.00 | 0.00 |
| 18,600.00 | 90.27 | 359.72 | 10,044.32 | 7,969.26 | -368.56 | 7,977.41 | 0.00 | 0.00 | 0.00 |
| 18,700.00 | 90.27 | 359.72 | 10,043.85 | 8,069.25 | -369.04 | 8,077.36 | 0.00 | 0.00 | 0.00 |
| 18,800.00 | 90.27 | 359.72 | 10,043.39 | 8,169.25 | -369.53 | 8,177.31 | 0.00 | 0.00 | 0.00 |
| 18,900.00 | 90.27 | 359.72 | 10,042.92 | 8,269.25 | -370.01 | 8,277.26 | 0.00 | 0.00 | 0.00 |
| 19,000.00 | 90.27 | 359.72 | 10,042.46 | 8,369.25 | -370.49 | 8,377.21 | 0.00 | 0.00 | 0.00 |
| 19,100.00 | 90.27 | 359.72 | 10,042.00 | 8,469.24 | -370.98 | 8,477.15 | 0.00 | 0.00 | 0.00 |
| 19,200.00 | 90.27 | 359.72 | 10,041.53 | 8,569.24 | -371.46 | 8,577.10 | 0.00 | 0.00 | 0.00 |
| 19,300.00 | 90.27 | 359.72 | 10,041.07 | 8,669.24 | -371.94 | 8,677.05 | 0.00 | 0.00 | 0.00 |
| 19,400.00 | 90.27 | 359.72 | 10,040.60 | 8,769.24 | -372.43 | 8,777.00 | 0.00 | 0.00 | 0.00 |
| 19,500.00 | 90.27 | 359.72 | 10,040.14 | 8,869.24 | -372.91 | 8,876.95 | 0.00 | 0.00 | 0.00 |
| 19,600.00 | 90.27 | 359.72 | 10,039.68 | 8,969.23 | -373.39 | 8,976.89 | 0.00 | 0.00 | 0.00 |
| 19,700.00 | 90.27 | 359.72 | 10,039.21 | 9,069.23 | -373.88 | 9,076.84 | 0.00 | 0.00 | 0.00 |
| 19,800.00 | 90.27 | 359.72 | 10,038.75 | 9,169.23 | -374.36 | 9,176.79 | 0.00 | 0.00 | 0.00 |
| 19,900.00 | 90.27 | 359.72 | 10,038.28 | 9,269.23 | -374.84 | 9,276.74 | 0.00 | 0.00 | 0.00 |
| 20,000.00 | 90.27 | 359.72 | 10,037.82 | 9,369.22 | -375.32 | 9,376.69 | 0.00 | 0.00 | 0.00 |
| 20,100.00 | 90.27 | 359.72 | 10,037.36 | 9,469.22 | -375.81 | 9,476.64 | 0.00 | 0.00 | 0.00 |
| 20,200.00 | 90.27 | 359.72 | 10,036.89 | 9,569.22 | -376.29 | 9,576.58 | 0.00 | 0.00 | 0.00 |
| 20,300.00 | 90.27 | 359.72 | 10,036.43 | 9,669.22 | -376.77 | 9,676.53 | 0.00 | 0.00 | 0.00 |
| 20,400.00 | 90.27 | 359.72 | 10,035.96 | 9,769.22 | -377.26 | 9,776.48 | 0.00 | 0.00 | 0.00 |
| 20,500.00 | 90.27 | 359.72 | 10,035.50 | 9,869.21 | -377.74 | 9,876.43 | 0.00 | 0.00 | 0.00 |
| 20,600.00 | 90.27 | 359.72 | 10,035.04 | 9,969.21 | -378.22 | 9,976.38 | 0.00 | 0.00 | 0.00 |
| 20,700.00 | 90.27 | 359.72 | 10,034.57 | 10,069.21 | -378.71 | 10,076.32 | 0.00 | 0.00 | 0.00 |
| 20,800.00 | 90.27 | 359.72 | 10,034.11 | 10,169.21 | -379.19 | 10,176.27 | 0.00 | 0.00 | 0.00 |
| 20,900.00 | 90.27 | 359.72 | 10,033.64 | 10,269.20 | -379.67 | 10,276.22 | 0.00 | 0.00 | 0.00 |
| 20,974.13 | 90.27 | 359.72 | 10,033.30 | 10,343.33 | -380.03 | 10,350.31 | 0.00 | 0.00 | 0.00 |

# OXY

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | HOPSPP | **Local Co-ordinate Reference:** | Well Heads CC 9_4 Federal Com 31H |
| **Company:** | ENGINEERING DESIGNS | **TVD Reference:** | RKB=26.5' @ 2953.30ft |
| **Project:** | PRD NM DIRECTIONAL PLANS (NAD 1983) | **MD Reference:** | RKB=26.5' @ 2953.30ft |
| **Site:** | Heads CC 9_4 | **North Reference:** | Grid |
| **Well:** | Heads CC 9_4 Federal Com 31H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Permitting Plan | | |

**Design Targets**

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| PBHL (Heads CC 9_4 - plan hits target center - Point | 0.00 | 0.00 | 10,033.30 | 10,343.33 | -380.03 | 456,293.00 | 645,520.00 | 32.253975 | -103.996317 |
| FTP (Heads CC 9_4 - plan hits target center - Point | 0.00 | 0.00 | 10,082.00 | -151.91 | -329.33 | 445,798.60 | 645,570.70 | 32.225127 | -103.996259 |

**Formations**

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---|---|---|---|---|---|
| 127.00 | 127.00 | RUSTLER | | | |
| 607.00 | 607.00 | SALADO | | | |
| 1,284.00 | 1,284.00 | CASTILE | | | |
| 2,853.00 | 2,853.00 | LAMAR | | | |
| 2,918.00 | 2,918.00 | BELL CANYON | | | |
| 3,765.00 | 3,765.00 | CHERRY CANYON | | | |
| 5,014.58 | 5,014.00 | BRUSHY CANYON | | | |
| 6,605.40 | 6,584.00 | BONE SPRING | | | |
| 7,630.98 | 7,594.00 | BONE SPRING 1ST | | | |
| 8,459.57 | 8,410.00 | BONE SPRING 2ND | | | |
| 9,600.78 | 9,535.00 | BONE SPRING 3RD | | | |
| 9,989.50 | 9,888.00 | WOLFCAMP | | | |

**Plan Annotations**

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates +N/-S (ft) | Local Coordinates +E/-W (ft) | Comment |
|---|---|---|---|---|
| 4,530.00 | 4,530.00 | 0.00 | 0.00 | Start Build 1.00 |
| 5,529.91 | 5,524.84 | -80.99 | -31.85 | Hold 10° Tangent |
| 9,483.18 | 9,418.07 | -719.80 | -283.02 | KOP, Build & turn 10°/100' |
| 10,478.65 | 10,082.00 | -151.91 | -329.33 | Landing Point |
| 20,974.13 | 10,033.30 | 10,343.33 | -380.03 | TD at 20974.13' MD |

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Heads CC 9_4
Well: Heads CC 9_4 Federal Com 31H
Wellbore: Wellbore #1
Design: Permitting Plan

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

WELL DETAILS: Heads CC 9_4 Federal Com 31H

Ground Level: 2926.80

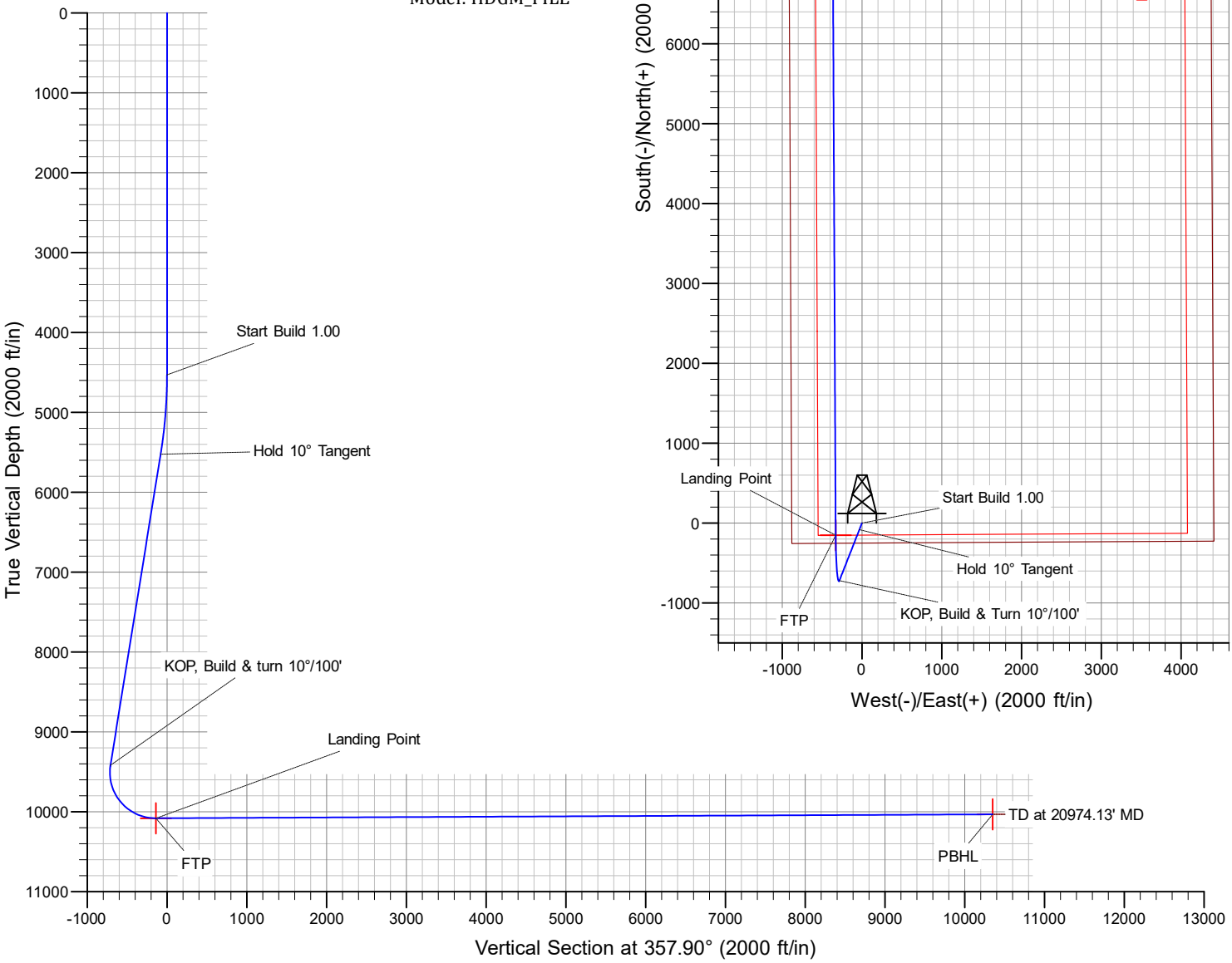
| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|---|---|---|---|---|---|
| 0.00 | 0.00 | 445950.50 | 645900.00 | 32.225542 | -103.995192 |

SECTION DETAILS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSect | Annotation |
|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4530.00 | 0.00 | 0.00 | 4530.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Start Build 1.00 |
| 5529.91 | 10.00 | 201.46 | 5524.84 | -80.99 | -31.85 | 1.00 | 201.46 | -79.77 | Hold 10° Tangent |
| 9483.18 | 10.00 | 201.46 | 9418.07 | -719.80 | -283.02 | 0.00 | 0.00 | -708.93 | KOP, Build & turn 10°/100' |
| 10478.65 | 90.27 | 359.72 | 10082.00 | -151.91 | -329.33 | 10.00 | 157.94 | -139.72 | Landing Point |
| 20974.13 | 90.27 | 359.72 | 10033.30 | 10343.33 | -380.03 | 0.00 | 0.00 | 10350.31 | TD at 20974.13' MD |


Azimuths to Grid North
True North: -0.18°
Magnetic North: 6.77°

Magnetic Field
Strength: 47902.2nT
Dip Angle: 59.95°
Date: 7/18/2019
Model: HDGM_FILE



# Oxy USA Inc. - Heads CC 9_4 Federal Com 31H

## Drill Plan

## 1. Geologic Formations

| | | | |
|---|---|---|---|
| TVD of Target (ft): | 10082 | Pilot Hole Depth (ft): | |
| Total Measured Depth (ft): | 20974 | Deepest Expected Fresh Water (ft): | 127 |

### Delaware Basin

| Formation | MD-RKB (ft) | TVD-RKB (ft) | Expected Fluids |
|---|---|---|---|
| Rustler | 127 | 127 | |
| Salado | 604 | 604 | Salt |
| Castile | 1283 | 1283 | Salt |
| Delaware | 2848 | 2848 | Oil/Gas/Brine |
| Bell Canyon | 2913 | 2913 | Oil/Gas/Brine |
| Cherry Canyon | 3761 | 3761 | Oil/Gas/Brine |
| Brushy Canyon | 5015 | 5014 | Losses |
| Bone Spring | 6605 | 6584 | Oil/Gas |
| Bone Spring 1st | 7631 | 7594 | Oil/Gas |
| Bone Spring 2nd | 8426 | 8404 | Oil/Gas |
| Bone Spring 3rd | 9601 | 9535 | Oil/Gas |
| Wolfcamp | 9989 | 9888 | Oil/Gas |
| Penn | | | Oil/Gas |
| Strawn | | | Oil/Gas |

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

## 2. Casing Program

| | | MD | | TVD | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Section | Hole Size (in) | From (ft) | To (ft) | From (ft) | To (ft) | Csg. OD (in) | Csg Wt. (ppf) | Grade | Conn. |
| Surface | 17.5 | 0 | 187 | 0 | 187 | 13.375 | 54.5 | J-55 | BTC |
| Intermediate | 12.25 | 0 | 9383 | 0 | 9318 | 9.625 | 40 | L-80 HC | BTC |
| Production | 8.5 | 0 | 9933 | 0 | 9750 | 7 | 32 | P-110 | DQX |
| Production | 8.5 | 9933 | 20974 | 9750 | 10082 | 5.5 | 20 | P-110 | DQX |

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

*Oxy requests the option to run production casing with DQX, TORQ DQW, Wedge 425, Wedge 461, and/or Wedge 441 connections to accommodate hole conditions or drilling operations.

| *All Casing SF Values will meet or exceed those below* | | | |
|---|---|---|---|
| **SF Collapse** | **SF Burst** | **Body SF Tension** | **Joint SF Tension** |
| 1.125 | 1.2 | 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 from Onshore Order #2 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.

| | Y or N |
|---|---|
| Is casing new? If used, attach certification as required in Onshore Order #1 | 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-P? | N |
| If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing? | |
| | |
| Is well located in R-111-P and SOPA? | N |
| If yes, are the first three strings cemented to surface? | |
| Is 2nd string set 100' to 600' below the base of salt? | |
| | |
| Is well located in high Cave/Karst? | N |
| If yes, are there two strings cemented to surface? | |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs? | |
| | |
| Is well located in critical Cave/Karst? | N |
| If yes, are there three strings cemented to surface? | |

## 3. Cementing Program

| Section | Stage | Slurry: | Capacities | ft^3/ft | Excess: | From | To | Sacks | Volume (ft^3) | Placement |
|---|---|---|---|---|---|---|---|---|---|---|
| Surface | 1 | Surface - Tail | OH x Csg | 0.6946 | 100% | 187 | - | 195 | 260 | Circulate |
| Int. | 1 | Intermediate 1S - Tail | OH x Csg | 0.3132 | 5% | 9,383 | 5,265 | 821 | 1354 | Circulate |
| Int. | 2 | Intermediate 2S - Tail BH | OH x Csg | 0.3132 | 25% | 5,265 | 187 | 1035 | 1988 | Bradenhead |
| Int. | 2 | Intermediate 2S - Tail BH | Csg x Csg | 0.3627 | 0% | 187 | - | 35 | 68 | Bradenhead |
| Prod. | 1 | Production - Tail | OH x Csg2 | 0.2291 | 20% | 20,974 | 9,933 | 2199 | 3035 | Circulate |
| Prod. | 1 | Production - Tail | OH x Csg1 | 0.1268 | 20% | 9,933 | 9,383 | 61 | 84 | Circulate |
| Prod. | 1 | Production - Tail | Csg x Csg | 0.1585 | 0% | 9,383 | 8,883 | 57 | 79 | Circulate |

| Description | Density (lb/gal) | Yield (ft3/sk) | Water (gal/sk) | 500psi Time (hh:mm) | Cmt. Class | Accelerator | Retarder | Dispersant | Salt |
|---|---|---|---|---|---|---|---|---|---|
| Surface - Tail | 14.8 | 1.33 | 6.365 | 5:26 | C | x | | | |
| Intermediate 1S - Tail | 13.2 | 1.65 | 8.64 | 11:54 | H | x | x | x | x |
| Intermediate 2S - Tail BH | 12.9 | 1.92 | 10.41 | 23:10 | C | x | | | |
| Production - Tail | 13.2 | 1.38 | 6.686 | 3:39 | H | | x | x | x |

## Offline Cementing

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.

The summarized operational sequence will be as follows:
Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
Land casing.
Fill pipe with kill weight fluid, and confirm well is static.
If well 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.

The summarized 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.
3. Fill pipe with kill weight fluid, and confirm well is static.
    a. If well is not static notify BLM and kill well.
    b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
4. Set and pressure test annular packoff.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed.
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange.
8. If well is not static notify BLM and kill well prior to cementing or nippling up for further remediation.
9. Install offline cement tool.
10. Rig up cement equipment.
    a. Notify BLM prior to cement job.
11. Perform cement job.
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

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

## 4. Pressure Control Equipment

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | Type | ✔ | Tested to: | Deepest TVD Depth (ft) per Section: |
|---|---|---|---|---|---|---|
| 12.25" Hole | 13-5/8" | 3M | Annular | ✔ | 70% of working pressure | 9318 |
| | | 3M | Blind Ram | ✔ | 250 psi / 3000 psi | |
| | | | Pipe Ram | | | |
| | | | Double Ram | ✔ | | |
| | | | Other* | | | |
| 8.5" Hole | 13-5/8" | 5M | Annular | ✔ | 70% of working pressure | 10082 |
| | | 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 Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

| | | |
|---|---|---|
| | Formation integrity test will be performed per Onshore Order #2. | |
| | 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 Onshore Oil and Gas Order #2 III.B.1.i. | |
| | | |
| | A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. | |
| | Y | Are anchors required by manufacturer? |
| | A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 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.<br><br>See attached schematics. | |

## BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

BOP break test under the following conditions:
- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.

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

## 5. Mud Program

| Section | Depth - MD | | Depth - TVD | | Type | Weight (ppg) | Viscosity | Water Loss |
|---|---|---|---|---|---|---|---|---|
| | From (ft) | To (ft) | From (ft) | To (ft) | | | | |
| Surface | 0 | 187 | 0 | 187 | Water-Based Mud | 8.6 - 8.8 | 40-60 | N/C |
| Intermediate | 187 | 9383 | 187 | 9318 | Saturated Brine-Based or Oil-Based Mud | 8.0 - 10.0 | 35-45 | N/C |
| Production | 9383 | 20974 | 9318 | 10082 | Water-Based or Oil-Based Mud | 9.5 - 12.5 | 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, CACL2. Oxy will use a closed mud system.

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

## 6. Logging and Testing Procedures

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

| Additional logs planned | | Interval |
|---|---|---|
| No | Resistivity | |
| No | Density | |
| No | CBL | |
| Yes | Mud log | Bone Spring – TD |
| No | PEX | |

## 7. Drilling Conditions

| Condition | Specify what type and where? |
|---|---|
| BH Pressure at deepest TVD | 6554 psi |
| Abnormal Temperature | No |
| BH Temperature at deepest TVD | 161°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

| 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 Onshore Oil and Gas Order #6. 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.<br>We plan to drill the 3 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.<br>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:** | 1440 bbls |
|---|---|

Attachments
_x__ Directional Plan
_x__ H2S Contingency Plan
_x__ Flex III Attachments
_x__ Spudder Rig Attachment
_x__ Premium Connection Specs

## 9. Company Personnel

| Name | Title | Office Phone | Mobile Phone |
|---|---|---|---|
| Garrett Granier | Drilling Engineer | 713-513-6633 | 832-265-0581 |
| Filip Krneta | Drilling Engineer Supervisor | 713-350-4751 | 832-244-4980 |
| Simon Benavides | Drilling Superintendent | 713-522-8652 | 281-684-6897 |
| Diego Tellez | Drilling Manager | 713-350-4602 | 713-303-4932 |

Tenaris

# TenarisHydril Wedge 425®

| Coupling | Pipe Body |
|---|---|
| Grade: **P110-CY** | Grade: **P110-CY** |
| Body: **White** | 1st Band: **White** |
| 1st Band: **Grey** | 2nd Band: **Grey** |
| 2nd Band: **-** | 3rd Band: **-** |
| 3rd Band: **-** | 4th Band: **-** |
| | 5th Band: **-** |
| | 6th Band: **-** |

| | | | | | |
|---|---|---|---|---|---|
| **Outside Diameter** | 5.500 in. | **Wall Thickness** | 0.361 in. | **Grade** | P110-CY |
| **Min. Wall Thickness** | 87.50 % | **Pipe Body Drift** | API Standard | **Type** | Casing |
| **Connection OD Option** | REGULAR | | | | |

## Pipe Body Data

| Geometry | | | | Performance | |
|---|---|---|---|---|---|
| **Nominal OD** | 5.500 in. | **Wall Thickness** | 0.361 in. | **Body Yield Strength** | 641 x1000 lb |
| **Nominal Weight** | 20 lb/ft | **Plain End Weight** | 19.83 lb/ft | **Min. Internal Yield Pressure** | 12,640 psi |
| **Drift** | 4.653 in. | **OD Tolerance** | API | **SMYS** | 110,000 psi |
| **Nominal ID** | 4.778 in. | | | **Collapse Pressure** | 11,100 psi |

## Connection Data

| Geometry | | Performance | | Make-Up Torques | |
|---|---|---|---|---|---|
| **Connection OD** | 5.777 in. | **Tension Efficiency** | 90 % | **Minimum** | 15,700 ft-lb |
| **Connection ID** | 4.734 in. | **Joint Yield Strength** | 577 x1000 lb | **Optimum** | 19,600 ft-lb |
| **Make-up Loss** | 5.823 in. | **Internal Pressure Capacity** | 12,640 psi | **Maximum** | 21,600 ft-lb |
| **Threads per inch** | 3.77 | **Compression Efficiency** | 90 % | | |
| **Connection OD Option** | Regular | **Compression Strength** | 577 x1000 lb | **Operation Limit Torques** | |
| | | **Max. Allowable Bending** | 82 °/100 ft | **Operating Torque** | 29,000 ft-lb |
| | | **External Pressure Capacity** | 11,100 psi | **Yield Torque** | 36,000 ft-lb |

## Notes

This connection is fully interchangeable with:
TORQ® SFW™ - 5.5 in. - 0.361 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

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

Tenaris

# TenarisHydril Wedge 441®

| Coupling | Pipe Body |
|---|---|
| Grade: **P110-CY** | Grade: **P110-CY** |
| Body: **White** | 1st Band: **White** |
| 1st Band: **Grey** | 2nd Band: **Grey** |
| 2nd Band: **-** | 3rd Band: **-** |
| 3rd Band: **-** | 4th Band: **-** |
| | 5th Band: **-** |
| | 6th Band: **-** |

| | | | | | |
|---|---|---|---|---|---|
| **Outside Diameter** | 5.500 in. | **Wall Thickness** | 0.361 in. | **Grade** | P110-CY |
| **Min. Wall Thickness** | 87.50 % | **Drift** | API Standard | **Type** | Casing |
| **Connection OD Option** | REGULAR | | | | |

## Pipe Body Data

| Geometry | | | | Performance | |
|---|---|---|---|---|---|
| **Nominal OD** | 5.500 in. | **Wall Thickness** | 0.361 in. | **Body Yield Strength** | 641 x1000 lb |
| **Nominal Weight** | 20 lb/ft | **Plain End Weight** | 19.83 lb/ft | **Min. Internal Yield Pressure** | 12,640 psi |
| **Drift** | 4.653 in. | **OD Tolerance** | API | **SMYS** | 110,000 psi |
| **Nominal ID** | 4.778 in. | | | **Collapse Pressure** | 11,100 psi |

## Connection Data

| Geometry | | Performance | | Make-Up Torques | |
|---|---|---|---|---|---|
| **Connection OD** | 5.852 in. | **Tension Efficiency** | 81.50 % | **Minimum** | 15,000 ft-lb |
| **Coupling Length** | 8.714 in. | **Joint Yield Strength** | 522 x1000 lb | **Optimum** | 16,000 ft-lb |
| **Connection ID** | 4.778 in. | **Internal Pressure Capacity** | 12,640 psi | **Maximum** | 19,200 ft-lb |
| **Make-up Loss** | 3.780 in. | **Compression Efficiency** | 81.50 % | | |
| **Threads per inch** | 3.40 | **Compression Strength** | 522 x1000 lb | **Operation Limit Torques** | |
| **Connection OD Option** | Regular | **Max. Allowable Bending** | 71 °/100 ft | **Operating Torque** | 32,000 ft-lb |
| | | **External Pressure Capacity** | 11,100 psi | **Yield Torque** | 38,000 ft-lb |
| | | | | **Buck-On** | |
| | | | | **Minimum** | 19,200 ft-lb |
| | | | | **Maximum** | 20,700 ft-lb |

## Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

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

Tenaris

# TenarisHydril Wedge 461®

| Coupling | Pipe Body |
|---|---|
| Grade: **P110-CY** | Grade: **P110-CY** |
| Body: **White** | 1st Band: **White** |
| 1st Band: **Grey** | 2nd Band: **Grey** |
| 2nd Band: **-** | 3rd Band: **-** |
| 3rd Band: **-** | 4th Band: **-** |
| | 5th Band: **-** |
| | 6th Band: **-** |

| | | | | | |
|---|---|---|---|---|---|
| **Outside Diameter** | 5.500 in. | **Wall Thickness** | 0.361 in. | **Grade** | P110-CY |
| **Min. Wall Thickness** | 87.50 % | **Drift** | API Standard | **Type** | Casing |
| **Connection OD Option** | REGULAR | | | | |

## Pipe Body Data

| Geometry | | | | Performance | |
|---|---|---|---|---|---|
| **Nominal OD** | 5.500 in. | **Wall Thickness** | 0.361 in. | **Body Yield Strength** | 641 x1000 lb |
| **Nominal Weight** | 20 lb/ft | **Plain End Weight** | 19.83 lb/ft | **Min. Internal Yield Pressure** | 12,640 psi |
| **Drift** | 4.653 in. | **OD Tolerance** | API | **SMYS** | 110,000 psi |
| **Nominal ID** | 4.778 in. | | | **Collapse Pressure** | 11,100 psi |

## Connection Data

| Geometry | | Performance | | Make-Up Torques | |
|---|---|---|---|---|---|
| **Connection OD** | 6.300 in. | **Tension Efficiency** | 100 % | **Minimum** | 17,000 ft-lb |
| **Coupling Length** | 7.714 in. | **Joint Yield Strength** | 641 x1000 lb | **Optimum** | 18,000 ft-lb |
| **Connection ID** | 4.778 in. | **Internal Pressure Capacity** | 12,640 psi | **Maximum** | 21,600 ft-lb |
| **Make-up Loss** | 3.775 in. | **Compression Efficiency** | 100 % | | |
| **Threads per inch** | 3.40 | **Compression Strength** | 641 x1000 lb | **Operation Limit Torques** | |
| **Connection OD Option** | Regular | **Max. Allowable Bending** | 92 °/100 ft | **Operating Torque** | 39,000 ft-lb |
| | | **External Pressure Capacity** | 11,100 psi | **Yield Torque** | 46,000 ft-lb |
| | | **Coupling Face Load** | 290,000 lb | **Buck-On** | |
| | | | | **Minimum** | 21,600 ft-lb |
| | | | | **Maximum** | 23,100 ft-lb |

## Notes

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

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

Tenaris

# TenarisHydril Wedge 461®

| Coupling | Pipe Body |
|---|---|
| Grade: **P110-CY** | Grade: **P110-CY** |
| Body: **White** | 1st Band: **White** |
| 1st Band: **Grey** | 2nd Band: **Grey** |
| 2nd Band: **-** | 3rd Band: **-** |
| 3rd Band: **-** | 4th Band: **-** |
| | 5th Band: **-** |
| | 6th Band: **-** |

| | | | | | |
|---|---|---|---|---|---|
| **Outside Diameter** | 7.000 in. | **Wall Thickness** | 0.453 in. | **Grade** | P110-CY |
| **Min. Wall Thickness** | 87.50 % | **Pipe Body Drift** | API Standard | **Type** | Casing |
| **Connection OD Option** | REGULAR | | | | |

## Pipe Body Data

| Geometry | | | | Performance | |
|---|---|---|---|---|---|
| **Nominal OD** | 7.000 in. | **Wall Thickness** | 0.453 in. | **Body Yield Strength** | 1025 x1000 lb |
| **Nominal Weight** | 32 lb/ft | **Plain End Weight** | 31.70 lb/ft | **Min. Internal Yield Pressure** | 12,460 psi |
| **Drift** | 5.969 in. | **OD Tolerance** | API | **SMYS** | 110,000 psi |
| **Nominal ID** | 6.094 in. | | | **Collapse Pressure** | 10,780 psi |

## Connection Data

| Geometry | | Performance | | Make-Up Torques | |
|---|---|---|---|---|---|
| **Connection OD** | 7.750 in. | **Tension Efficiency** | 100 % | **Minimum** | 20,000 ft-lb |
| **Coupling Length** | 8.914 in. | **Joint Yield Strength** | 1025 x1000 lb | **Optimum** | 21,000 ft-lb |
| **Connection ID** | 6.094 in. | **Internal Pressure Capacity** | 12,460 psi | **Maximum** | 25,200 ft-lb |
| **Make-up Loss** | 4.375 in. | **Compression Efficiency** | 100 % | | |
| **Threads per inch** | 3.40 | **Compression Strength** | 1025 x1000 lb | **Operation Limit Torques** | |
| **Connection OD Option** | Regular | **Max. Allowable Bending** | 72 °/100 ft | **Operating Torque** | 61,000 ft-lb |
| | | **External Pressure Capacity** | 10,780 psi | **Yield Torque** | 72,000 ft-lb |
| | | **Coupling Face Load** | 269,000 lb | **Buck-On** | |
| | | | | **Minimum** | 25,200 ft-lb |
| | | | | **Maximum** | 26,700 ft-lb |

## Notes

This connection is fully interchangeable with:
Wedge 461® - 7 in. - 0.317 / 0.362 / 0.408 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

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

COMMENTS

Action 122423

## COMMENTS

| | |
|---|---|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696 |
| | Action Number:<br>122423 |
| | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

**COMMENTS**

| Created By | Comment | Comment Date |
|---|---|---|
| kpickford | Defining well 30-015-47340 HEADS CC 9 4 FEDERAL COM #312H | 7/7/2022 |

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

CONDITIONS

Action 122423

## CONDITIONS

| | |
|---|---|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696 |
| | Action Number:<br>122423 |
| | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| kpickford | Adhere to previous NMOCD Conditions of Approval | 7/7/2022 |