Sundry Print Report

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

Well Name: CORRAL BLUFF 11_14

FEDERAL COM

Well Number: 31H

Well Location: T25S / R29E / SEC 2 /

SWSW /

Type of Well: OIL WELL

County or Parish/State:

Allottee or Tribe Name:

Lease Number: NMNM15303

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001548021

Well Status: Approved Application for

Permit to Drill

Operator: OXY USA INCORPORATED

Notice of Intent

Sundry ID: 2713433

Type of Submission: Notice of Intent

Date Sundry Submitted: 01/31/2023

Type of Action: APD Change

Time Sundry Submitted: 02:18

Date proposed operation will begin: 03/28/2023

Procedure Description: The new drill plan and C-102 are attached. The old BHL was 20 FSL, 380 FWL, Sec 14, T25S, R29E. The new BHL is 20 FSL, 330 FWL, Sec 14, T25S, R29E.

NOI Attachments

Procedure Description

 $IP8624WEL03NM_C102_CORRAL_BLUFF_11_14_FED_COM_31H_FLAT_20230201060929.pdf$

CorralBluff11_14FedCom31H_TNSWedge461_5.500in_20.00__P110CY_20230131141723.pdf

CorralBluff11_14FedCom31H_TNSWedge441_5.500in_20.00__P110CY_20230131141720.pdf

CorralBluff11_14FedCom31H_H2S2_20230131141710.pdf

CorralBluff11_14FedCom31H_H2SEmerContact_20230131141710.pdf

CorralBluff11_14FedCom31H_SpudRigData_20230131141710.pdf

CorralBluff11_14FedCom31H_FlexHoseCert_20230131141711.pdf

CorralBluff11_14FedCom31H_DrillPlan_20230131141711.pdf

CorralBluff11_14FedCom31H_TNSWedge425_5.500in_20.00__P110CY_20230131141710.pdf

 $Corral Bluff 11_14 Fed Com 31 H_Chk Manifolds _20230131141654.pdf$

eived by <u>OCD: 5/11/2023 12:21:58 PM</u> Well Name: CORRAL BLUFF 11_14

FEDERAL COM

Well Location: T25S / R29E / SEC 2 /

SWSW /

Type of Well: OIL WELL

County or Parish/State:

Page 2 of

Well Number: 31H

Allottee or Tribe Name:

Lease Number: NMNM15303

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001548021

Well Status: Approved Application for Permit to Drill

Operator: OXY USA

INCORPORATED

CorralBluff11_14FedCom31H_13inADAPT_10.75in_7.625in_10x10_20230131141654.pdf

CorralBluff11_14FedCom31H_CsgCriteria_20230131141654.pdf

CorralBluff11_14FedCom31H_BOP_20230131141654.pdf

CorralBluff11_14FedCom31H_DirectPlot_20230131141654.pdf

CorralBluff11_14FedCom31H_DirectPlan_20230131141654.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: FEB 01, 2023 06:09 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: KEITH P IMMATTY

BLM POC Phone: 5759884722

Disposition: Approved

Signature: Keith Immatty

BLM POC Title: ENGINEER

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition Date: 04/13/2023

Page 2 of 2

DEFINING WELL IS CORRAL BLUFF 11 14 FED COM #311H (30-015-48028)

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

Strist St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Road, 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

Ø =

BOTTOM HOLE LOCATION

Released to Imaging: 6/14/2023 8:56:59 AM

SECTION CORNER LOCATED

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

DRAWN BY: R.J. 10-25-19 REV: 3 10-26-22 D.M.C.

(ADD HSU COORDINATES TABLE)

Detail "B"

No Scale

■ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | WEEL ECCHIONAND MCKERIGE DEDICATION LEXT | | | | | | | | |
|-------------------------|---|-----------|-------------------|-------------|--|--|--|--|--|
| ¹ API Number | ¹ API Number ² Pool Code ³ Pool Name | | | | | | | | |
| 30-015-48021 | 98 | 8220 | | | | | | | |
| 4 Property Code | | 5 Pr | 6 Well Number | | | | | | |
| 329731 | | CORRAL BL | UFF 11_14 FED COM | 31H | | | | | |
| 7 OGRID No. | | 8 Op | erator Name | 9 Elevation | | | | | |
| 16696 | | OXY | Y USA INC. | 3037.3' | | | | | |

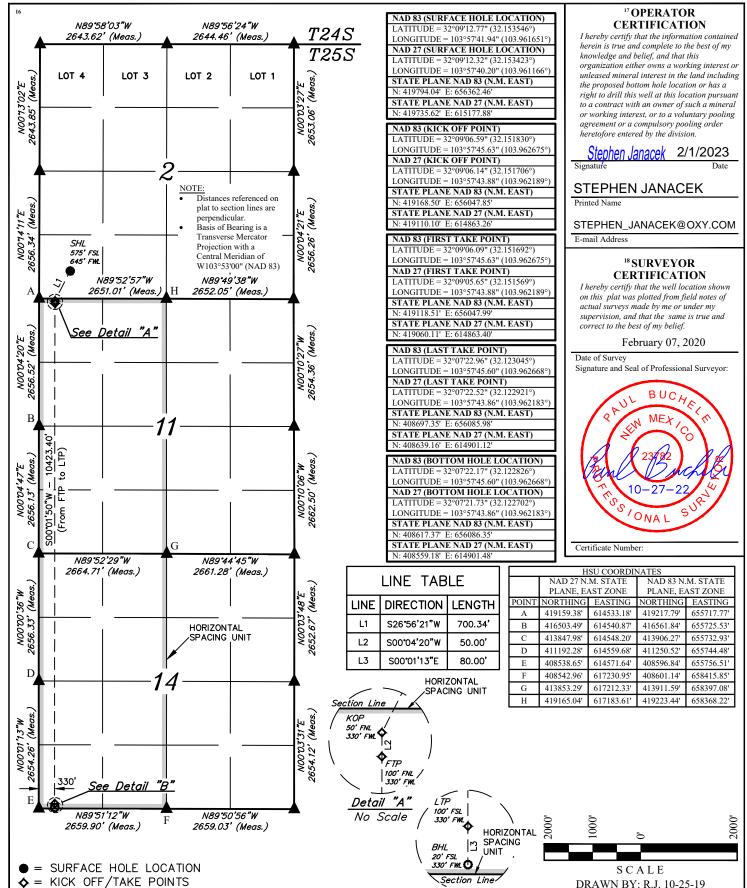
¹⁰ Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M | 2 | 25S | 29Ē | | 575 | SOUTH | 645 | WEST | EDDY |

¹¹Bottom Hole Location If Different From Surface

| UL or lot no. M | Section 14 | 1 7 | Township 25S | Range 29E | Lot Idn | F | eet from the 20 | North/South line SOUTH | Feet from the 330 | East/West line WEST | County EDDY |
|---------------------|---------------|---------|-----------------|--------------|---------------|---|--------------------|---------------------------|-------------------|------------------------|----------------|
| 12 Dedicated Acre | es | 3 Joint | t or Infill | 14 Conso | lidation Code | | 15 Order No. | | | | |
| 640 1280 | ΙY | | | | | | | | | | |

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.



PRD NM DIRECTIONAL PLANS (NAD 1983) Corral Bluff 11_14 Corral Bluff 11_14 Fed Com 31H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

11 August, 2021

Planning Report

Database: HOPSPP

Company: **ENGINEERING DESIGNS**

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Bluff 11_14

Well: Corral Bluff 11_14 Fed Com 31H

Wellbore: Wellbore #1 Design: Permitting Plan Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Corral Bluff 11_14 Fed Com 31H

RKB=26.5' @ 3063.80ft RKB=26.5' @ 3063.80ft

Grid

Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983 North American Datum 1983 Geo Datum:

Map Zone: New Mexico Eastern Zone System Datum: Mean Sea Level

Using geodetic scale factor

Site Corral Bluff 11_14

Site Position: Northing: 419,542.96 usft Latitude: 32° 9' 10.252500 N From: Мар Easting: 657,232.81 usft Longitude: 103° 57' 31.830047 W **Position Uncertainty:** 1.00 ft Slot Radius: 13.200 in **Grid Convergence:** 0.20

Well Corral Bluff 11_14 Fed Com 31H

Well Position +N/-S 251.10 ft Northing: 419.794.04 usft Latitude: 32° 9' 12.767026 N -870.42 ft +E/-W Easting: 656,362.46 usft Longitude: 103° 57' 41.944260 W **Position Uncertainty** 1.00 ft Wellhead Elevation: **Ground Level:** 3,037.30 ft

Wellbore Wellbore #1 Model Name Sample Date Declination Dip Angle Field Strength **Magnetics** (nT) (°) HDGM FILE 6.78 59.80 47,795.50000000 3/12/2020

Design Permitting Plan Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 181.42

Plan Survey Tool Program Date 8/11/2021

Depth From Depth To

0.00

(ft) (ft) Survey (Wellbore) **Tool Name** Remarks

20,998.98 Permitting Plan (Wellbore #1) OWSG MWD + HRGM

B001Mb MWD+HRGM

Plan Sections Vertical Measured Dogleg Build Turn Depth Depth Rate Rate Rate +N/-S Inclination **Azimuth** +E/-W **TFO** (°/100ft) (°/100ft) (°/100ft) (ft) (ft) (ft) (°) (°) (ft) (°) **Target** 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 7,070.00 0.00 0.00 7,070.00 0.00 0.00 0.00 0.00 0.00 0.00 8,070.00 10.00 220.50 8,064.93 -66.19 -56.53 1.00 1.00 0.00 220.50 9,836.51 0.00 9,868.91 10.00 220.50 -303.72-259.40 0.00 0.00 0.00 89.97 179.79 10.330.80 -871.63 -314.13 10.00 9.70 -4.94 -41.15 10,693.00 -11,177.54 0.00 20.998.98 89.97 179.79 10.335.80 -276.13 0.00 0.00 0.00 PBHL (Corral Bluff

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Bluff 11_14

Well: Corral Bluff 11_14 Fed Com 31H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

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North Reference:

Survey Calculation Method:

Well Corral Bluff 11_14 Fed Com 31H

RKB=26.5' @ 3063.80ft RKB=26.5' @ 3063.80ft

Grid

| Design: | Permitting Pia | | | | | | | | |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 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 | | 0.00 | 0.00 | | | 0.00 | |
| | | | 800.00 | | | 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 | 0.00 | 0.00 | 1,900.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 0.00 | 0.00 | 1,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 0.00 | 0.00 | 2,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 0.00 | 0.00 | 2,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 0.00 | 0.00 | 2,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 0.00 | 0.00 | 2,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 0.00 | 0.00 | 2,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 0.00 | 0.00 | 2,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 0.00 | 0.00 | 2,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 0.00 | 0.00 | 2,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 0.00 | 0.00 | 2,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 3,000.00 | 0.00 | 0.00 | 3,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 0.00 | 0.00 | 3,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 0.00 | 0.00 | 3,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 0.00 | 0.00 | 3,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 0.00 | 0.00 | 3,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 0.00 | 0.00 | 3,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 0.00 | 0.00 | 3,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 0.00 | 0.00 | 3,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 0.00 | 0.00 | 3,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 0.00 | 0.00 | 3,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 0.00 | 0.00 | 4,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 0.00 | 0.00 | 4,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 0.00 | 0.00 | 4,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 0.00 | 0.00 | 4,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 0.00 | 0.00 | 4,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | , | | | | | | |
| 4,500.00 | 0.00 | 0.00 | 4,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 0.00 | 0.00 | 4,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 0.00 | 0.00 | 4,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 0.00 | 0.00 | 4,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 0.00 | 0.00 | 4,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 0.00 | 0.00 | 5,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 0.00 | 0.00 | 5,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 0.00 | 0.00 | 5,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 0.00 | 0.00 | 5,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 0.00 | 0.00 | 5,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Bluff 11_14

Well: Corral Bluff 11_14 Fed Com 31H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Corral Bluff 11_14 Fed Com 31H

RKB=26.5' @ 3063.80ft RKB=26.5' @ 3063.80ft

Grid

| Design: | Permitting Pla | an | | | | | | | |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| Planned Survey | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,500.00 | 0.00 | 0.00 | 5,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 0.00 | 0.00 | 5,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 0.00 | 0.00 | 5,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 0.00 | 0.00 | 5,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 0.00 | 0.00 | 5,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 0.00 | 0.00 | 6,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 0.00 | 0.00 | 6,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 0.00 | 0.00 | 6,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 0.00 | 0.00 | 6,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 0.00 | 0.00 | 6,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 0.00 | 0.00 | 6,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 0.00 | 0.00 | 6,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 0.00 | 0.00 | 6,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 0.00 | 0.00 | 6,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 0.00 | 0.00 | 6,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 0.00 | 0.00 | 7,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7,070.00 | 0.00 | 0.00 | 7,070.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 0.30 | 220.50 | 7,100.00 | -0.06 | -0.05 | 0.06 | 1.00 | 1.00 | 0.00 |
| 7,200.00 | 1.30 | 220.50 | 7,199.99 | -1.12 | -0.96 | 1.14 | 1.00 | 1.00 | 0.00 |
| 7,300.00 | 2.30 | 220.50 | 7,299.94 | -3.51 | -3.00 | 3.58 | 1.00 | 1.00 | 0.00 |
| 7,400.00 | 3.30 | 220.50 | 7,399.82 | -7.22 | -6.17 | 7.37 | 1.00 | 1.00 | 0.00 |
| 7,500.00 | 4.30 | 220.50 | 7,499.60 | -12.26 | -10.47 | 12.52 | 1.00 | 1.00 | 0.00 |
| 7,600.00 | 5.30 | 220.50 | 7,599.24 | -18.63 | -15.91 | 19.01 | 1.00 | 1.00 | 0.00 |
| 7,700.00 | 6.30 | 220.50 | 7,698.73 | -26.31 | -22.47 | 26.86 | 1.00 | 1.00 | 0.00 |
| 7,800.00 | 7.30 | 220.50 | 7,798.03 | -35.31 | -30.16 | 36.05 | 1.00 | 1.00 | 0.00 |
| 7,900.00 | 8.30 | 220.50 | 7,897.10 | -45.63 | -38.98 | 46.58 | 1.00 | 1.00 | 0.00 |
| 8,000.00 | 9.30 | 220.50 | 7,995.92 | -57.27 | -48.91 | 58.46 | 1.00 | 1.00 | 0.00 |
| 8,070.00 | 10.00 | 220.50 | 8,064.93 | -66.19 | -56.53 | 67.57 | 1.00 | 1.00 | 0.00 |
| 8,100.00 | 10.00 | 220.50 | 8,094.48 | -70.15 | -59.91 | 71.61 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 10.00 | 220.50 | 8,192.96 | -83.36 | -71.19 | 85.09 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 10.00 | 220.50 | 8,291.44 | -96.56 | -82.47 | 98.57 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 10.00 | 220.50 | 8,389.92 | -109.76 | -93.75 | 112.05 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 10.00 | 220.50 | 8,488.40 | -122.97 | -105.02 | 125.52 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 10.00 | 220.50 | 8,586.88 | -136.17 | -116.30 | 139.00 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 10.00 | 220.50 | 8,685.36 | -149.38 | -127.58 | 152.48 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 10.00 | 220.50 | 8,783.84 | -162.58 | -138.86 | 165.96 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 10.00 | 220.50 | 8,882.32 | -175.79 | -150.13 | 179.44 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 10.00 | 220.50 | 8,980.80 | -188.99 | -161.41 | 192.92 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 10.00 | 220.50 | 9,079.28 | -202.19 | -172.69 | 206.40 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 10.00 | 220.50 | 9,177.76 | -215.40 | -183.97 | 219.88 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 10.00 | 220.50 | 9,276.24 | -228.60 | -195.25 | 233.35 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 10.00 | 220.50 | 9,374.73 | -241.81 | -206.52 | 246.83 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 10.00 | 220.50 | 9,473.21 | -255.01 | -217.80 | 260.31 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 10.00 | 220.50 | 9,571.69 | -268.22 | -229.08 | 273.79 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 10.00 | 220.50 | 9,670.17 | -281.42 | -240.36 | 287.27 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 10.00 | 220.50 | 9,768.65 | -294.62 | -251.63 | 300.75 | 0.00 | 0.00 | 0.00 |
| 9,868.91 | 10.00 | 220.50 | 9,836.51 | -303.72 | -259.40 | 310.04 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 12.51 | 211.02 | 9,867.00 | -308.66 | -262.89 | 315.06 | 10.00 | 8.07 | -30.51 |
| 10,000.00 | 21.64 | 196.63 | 9,962.53 | -335.68 | -273.78 | 342.34 | 10.00 | 9.14 | -14.38 |
| 10,100.00 | 31.30 | 190.69 | 10,051.96 | -378.99 | -283.90 | 385.88 | 10.00 | 9.65 | -5.94 |
| 10,200.00 | 41.11 | 187.36 | 10,132.56 | -437.26 | -292.96 | 444.36 | 10.00 | 9.81 | -3.33 |
| 10,300.00 | 50.98 | 185.13 | 10,201.89 | -508.74 | -300.66 | 516.01 | 10.00 | 9.87 | -2.23 |
| 10,400.00 | 60.88 | 183.46 | 10,257.84 | -591.24 | -306.79 | 598.63 | 10.00 | 9.90 | -1.68 |
| 10,500.00 | 70.80 | 182.08 | 10,298.72 | -682.26 | -311.15 | 689.74 | 10.00 | 9.92 | -1.38 |
| 10,600.00 | 80.73 | 180.86 | 10,323.27 | -779.04 | -313.61 | 786.54 | 10.00 | 9.93 | -1.22 |

Planning Report

Database: Company: Project:

Site:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Corral Bluff 11_14

Well: Corral Bluff 11_14 Fed Com 31H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Corral Bluff 11_14 Fed Com 31H

RKB=26.5' @ 3063.80ft RKB=26.5' @ 3063.80ft

Grid

| Design: | Permitting Pla | an | | | | | | | |
|---|---|--|--|--|---|--|---------------------------------------|--------------------------------------|--|
| Planned Survey | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 10,693.00 10,700.00 10,800.00 10,900.00 11,000.00 | 89.97 89.97 89.97 89.97 89.97 | 179.79 179.79 179.79 179.79 179.79 | 10,330.80 10,330.80 10,330.85 10,330.90 10,330.95 | -871.63 -878.63 -978.63 -1,078.63 -1,178.63 | -314.13 -314.10 -313.74 -313.37 -313.00 | 879.12 886.12 986.08 1,086.04 1,186.00 | 10.00 0.00 0.00 0.00 0.00 | 9.93 0.00 0.00 0.00 0.00 | -1.15 0.00 0.00 0.00 0.00 |
| 11,100.00 11,200.00 11,300.00 11,400.00 11,500.00 | 89.97 89.97 89.97 89.97 89.97 | 179.79 179.79 179.79 179.79 179.79 | 10,331.00 10,331.04 10,331.09 10,331.14 10,331.19 | -1,278.62 -1,378.62 -1,478.62 -1,578.62 -1,678.62 | -312.63 -312.26 -311.89 -311.52 -311.15 | 1,285.96 1,385.92 1,485.88 1,585.83 1,685.79 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 11,600.00 11,700.00 11,800.00 11,900.00 12,000.00 | 89.97 89.97 89.97 89.97 89.97 | 179.79 179.79 179.79 179.79 179.79 | 10,331.24 10,331.29 10,331.34 10,331.43 | -1,778.62 -1,878.62 -1,978.62 -2,078.62 -2,178.62 | -310.79 -310.42 -310.05 -309.68 -309.31 | 1,785.75 1,885.71 1,985.67 2,085.63 2,185.59 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 12,100.00 12,200.00 12,300.00 12,400.00 12,500.00 | 89.97 89.97 89.97 89.97 89.97 | 179.79 179.79 179.79 179.79 179.79 179.79 | 10,331.48 10,331.53 10,331.58 10,331.63 10,331.67 10,331.72 | -2,278.62 -2,378.62 -2,478.62 -2,578.62 -2,678.62 -2,778.61 | -308.94 -308.57 -308.20 -307.84 -307.47 | 2,285.55 2,385.51 2,485.47 2,585.43 2,685.39 2,785.35 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| 12,700.00 12,800.00 12,900.00 13,000.00 | 89.97 89.97 89.97 89.97 89.97 | 179.79 179.79 179.79 179.79 179.79 | 10,331.77 10,331.82 10,331.87 10,331.92 10,331.97 | -2,878.61 -2,978.61 -3,078.61 -3,178.61 -3,278.61 | -306.73 -306.36 -305.99 -305.62 -305.26 | 2,885.31 2,985.27 3,085.23 3,185.19 3,285.15 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 13,200.00 13,300.00 13,400.00 13,500.00 | 89.97 89.97 89.97 89.97 89.97 | 179.79 179.79 179.79 179.79 179.79 | 10,332.01 10,332.06 10,332.11 10,332.16 10,332.21 | -3,378.61 -3,478.61 -3,578.61 -3,678.61 -3,778.61 | -304.89 -304.52 -304.15 -303.78 | 3,385.11 3,485.07 3,585.03 3,684.99 3,784.95 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 13,700.00 13,800.00 13,900.00 14,000.00 | 89.97 89.97 89.97 89.97 | 179.79 179.79 179.79 179.79 | 10,332.26 10,332.31 10,332.35 10,332.40 | -3,878.61 -3,978.61 -4,078.61 -4,178.60 -4,278.60 | -303.04 -302.67 -302.31 -301.94 | 3,884.91 3,984.87 4,084.83 4,184.79 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 |
| 14,100.00 14,200.00 14,300.00 14,400.00 14,500.00 | 89.97 89.97 89.97 89.97 89.97 | 179.79 179.79 179.79 179.79 179.79 | 10,332.45 10,332.50 10,332.55 10,332.60 10,332.65 | -4,378.60 -4,478.60 -4,578.60 -4,678.60 | -301.57 -301.20 -300.83 -300.46 -300.09 | 4,284.75 4,384.71 4,484.67 4,584.63 4,684.59 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 14,600.00 14,700.00 14,800.00 14,900.00 15,000.00 | 89.97 89.97 89.97 89.97 89.97 | 179.79 179.79 179.79 179.79 179.79 | 10,332.69 10,332.74 10,332.79 10,332.84 10,332.89 | -4,778.60 -4,878.60 -4,978.60 -5,078.60 -5,178.60 | -299.72 -299.36 -298.99 -298.62 -298.25 | 4,784.55 4,884.51 4,984.46 5,084.42 5,184.38 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 15,100.00 15,200.00 15,300.00 15,400.00 15,500.00 | 89.97 89.97 89.97 89.97 89.97 | 179.79 179.79 179.79 179.79 179.79 | 10,332.94 10,332.99 10,333.03 10,333.08 10,333.13 | -5,278.60 -5,378.60 -5,478.60 -5,578.60 -5,678.59 | -297.88 -297.51 -297.14 -296.78 -296.41 | 5,284.34 5,384.30 5,484.26 5,584.22 5,684.18 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 | 89.97 89.97 89.97 89.97 89.97 | 179.79 179.79 179.79 179.79 179.79 | 10,333.18 10,333.23 10,333.28 10,333.33 10,333.37 | -5,778.59 -5,878.59 -5,978.59 -6,078.59 -6,178.59 | -296.04 -295.67 -295.30 -294.93 -294.56 | 5,784.14 5,884.10 5,984.06 6,084.02 6,183.98 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Bluff 11_14

Well: Corral Bluff 11_14 Fed Com 31H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Corral Bluff 11_14 Fed Com 31H

RKB=26.5' @ 3063.80ft RKB=26.5' @ 3063.80ft

Grid

| Design: | Permitting Pla | an | | | | | | | |
|---------------------------|--------------------|------------------|---------------------------|--------------------------|--------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| Planned Survey | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 16,100.00 | 89.97 | 179.79 | 10,333.42 | -6,278.59 | -294.19 | 6,283.94 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 89.97 | 179.79 | 10,333.47 | -6,378.59 | -293.83 | 6,383.90 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 89.97 | 179.79 | 10,333.52 | -6,478.59 | -293.46 | 6,483.86 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 89.97 | 179.79 | 10,333.57 | -6,578.59 | -293.09 | 6,583.82 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 89.97 | 179.79 | 10,333.62 | -6,678.59 | -292.72 | 6,683.78 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 89.97 | 179.79 | 10,333.67 | -6,778.59 | -292.35 | 6,783.74 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 89.97 | 179.79 | 10,333.71 | -6,878.59 | -291.98 | 6,883.70 | 0.00 | 0.00 | 0.00 |
| 16,800.00 | 89.97 | 179.79 | 10,333.76 | -6,978.59 | -291.61 | 6,983.66 | 0.00 | 0.00 | 0.00 |
| 16,900.00 | 89.97 | 179.79 | 10,333.81 | -7,078.58 | -291.24 | 7,083.62 | 0.00 | 0.00 | 0.00 |
| 17,000.00 | 89.97 | 179.79 | 10,333.86 | -7,178.58 | -290.88 | 7,183.58 | 0.00 | 0.00 | 0.00 |
| 17 100 00 | 90.07 | 170.70 | | 7 270 50 | 200 51 | 7 202 54 | 0.00 | 0.00 | 0.00 |
| 17,100.00 17,200.00 | 89.97 89.97 | 179.79 179.79 | 10,333.91 10,333.96 | -7,278.58 -7,378.58 | -290.51 -290.14 | 7,283.54 7,383.50 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 17,200.00 | 89.97 | 179.79 | 10,333.96 | -7,378.58 -7,478.58 | -290.14 -289.77 | 7,383.50 7,483.46 | 0.00 | 0.00 | 0.00 |
| 17,300.00 | 89.97 | 179.79 | 10,334.00 | -7,478.58 -7,578.58 | -289.77 -289.40 | 7,483.46 7,583.42 | 0.00 | 0.00 | 0.00 |
| 17,400.00 | 89.97 | 179.79 | 10,334.05 | -7,578.58 -7,678.58 | -289.40 -289.03 | 7,583.42 7,683.38 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 17,600.00 | 89.97 | 179.79 | 10,334.15 | -7,778.58 | -288.66 | 7,783.34 | 0.00 | 0.00 | 0.00 |
| 17,700.00 | 89.97 | 179.79 | 10,334.20 | -7,878.58 | -288.29 | 7,883.30 | 0.00 | 0.00 | 0.00 |
| 17,800.00 | 89.97 | 179.79 | 10,334.25 | -7,978.58 | -287.93 | 7,983.26 | 0.00 | 0.00 | 0.00 |
| 17,900.00 | 89.97 | 179.79 | 10,334.30 | -8,078.58 | -287.56 | 8,083.22 | 0.00 | 0.00 | 0.00 |
| 18,000.00 | 89.97 | 179.79 | 10,334.34 | -8,178.58 | -287.19 | 8,183.18 | 0.00 | 0.00 | 0.00 |
| 18,100.00 | 89.97 | 179.79 | 10,334.39 | -8,278.58 | -286.82 | 8,283.13 | 0.00 | 0.00 | 0.00 |
| 18,200.00 | 89.97 | 179.79 | 10,334.44 | -8,378.58 | -286.45 | 8,383.09 | 0.00 | 0.00 | 0.00 |
| 18,300.00 | 89.97 | 179.79 | 10,334.49 | -8,478.58 | -286.08 | 8,483.05 | 0.00 | 0.00 | 0.00 |
| 18,400.00 | 89.97 | 179.79 | 10,334.54 | -8,578.57 | -285.71 | 8,583.01 | 0.00 | 0.00 | 0.00 |
| 18,500.00 | 89.97 | 179.79 | 10,334.59 | -8,678.57 | -285.35 | 8,682.97 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 18,600.00 | 89.97 | 179.79 | 10,334.64 | -8,778.57 | -284.98 | 8,782.93 | 0.00 | 0.00 | 0.00 |
| 18,700.00 | 89.97 | 179.79 | 10,334.68 | -8,878.57 | -284.61 | 8,882.89 | 0.00 | 0.00 | 0.00 |
| 18,800.00 | 89.97 | 179.79 | 10,334.73 | -8,978.57 | -284.24 | 8,982.85 | 0.00 | 0.00 | 0.00 |
| 18,900.00 19,000.00 | 89.97 89.97 | 179.79 179.79 | 10,334.78 | -9,078.57 -9,178.57 | -283.87 -283.50 | 9,082.81 9,182.77 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 19,000.00 | 09.97 | 179.79 | 10,334.83 | -9,170.37 | -203.30 | 9,102.77 | | 0.00 | |
| 19,100.00 | 89.97 | 179.79 | 10,334.88 | -9,278.57 | -283.13 | 9,282.73 | 0.00 | 0.00 | 0.00 |
| 19,200.00 | 89.97 | 179.79 | 10,334.93 | -9,378.57 | -282.76 | 9,382.69 | 0.00 | 0.00 | 0.00 |
| 19,300.00 | 89.97 | 179.79 | 10,334.98 | -9,478.57 | -282.40 | 9,482.65 | 0.00 | 0.00 | 0.00 |
| 19,400.00 | 89.97 | 179.79 | 10,335.02 | -9,578.57 | -282.03 | 9,582.61 | 0.00 | 0.00 | 0.00 |
| 19,500.00 | 89.97 | 179.79 | 10,335.07 | -9,678.57 | -281.66 | 9,682.57 | 0.00 | 0.00 | 0.00 |
| 19,600.00 | 89.97 | 179.79 | 10,335.12 | -9,778.57 | -281.29 | 9.782.53 | 0.00 | 0.00 | 0.00 |
| 19,700.00 | 89.97 | 179.79 | 10,335.17 | -9,878.57 | -280.92 | 9,882.49 | 0.00 | 0.00 | 0.00 |
| 19,800.00 | 89.97 | 179.79 | 10,335.22 | -9,978.56 | -280.55 | 9,982.45 | 0.00 | 0.00 | 0.00 |
| 19,900.00 | 89.97 | 179.79 | 10,335.27 | -10,078.56 | -280.18 | 10,082.41 | 0.00 | 0.00 | 0.00 |
| 20,000.00 | 89.97 | 179.79 | 10,335.32 | -10,178.56 | -279.81 | 10,182.37 | 0.00 | 0.00 | 0.00 |
| | | | | , | | 10.282.33 | | | |
| 20,100.00 20.200.00 | 89.97 | 179.79 | 10,335.36 | -10,278.56 | -279.45 | ., | 0.00 | 0.00 | 0.00 |
| 20,200.00 | 89.97 89.97 | 179.79 179.79 | 10,335.41 10,335.46 | -10,378.56 -10,478.56 | -279.08 -278.71 | 10,382.29 10,482.25 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 20,300.00 | 89.97 | 179.79 | 10,335.46 | -10,478.56 | -278.71 -278.34 | 10,482.25 | 0.00 | 0.00 | 0.00 |
| 20,500.00 | 89.97 | 179.79 | 10,335.51 | -10,678.56 | -276.34 -277.97 | 10,562.21 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 20,600.00 | 89.97 | 179.79 | 10,335.61 | -10,778.56 | -277.60 | 10,782.13 | 0.00 | 0.00 | 0.00 |
| 20,700.00 | 89.97 | 179.79 | 10,335.66 | -10,878.56 | -277.23 | 10,882.09 | 0.00 | 0.00 | 0.00 |
| 20,800.00 | 89.97 | 179.79 | 10,335.70 | -10,978.56 | -276.87 | 10,982.05 | 0.00 | 0.00 | 0.00 |
| 20,900.00 | 89.97 | 179.79 | 10,335.75 | -11,078.56 | -276.50 | 11,082.01 | 0.00 | 0.00 | 0.00 |
| 20,998.98 | 89.97 | 179.79 | 10,335.80 | -11,177.54 | -276.13 | 11,180.95 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Bluff 11_14

Well: Corral Bluff 11_14 Fed Com 31H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Corral Bluff 11_14 Fed Com 31H

RKB=26.5' @ 3063.80ft RKB=26.5' @ 3063.80ft

Grid

| Design Targets | | | | | | | | | |
|---|----------------------|-----------------|--------------------------|-------------------------|--------------------------|----------------------------|-------------------|--------------------|--------------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| FTP (Corral Bluff - plan misses target - Point | 0.00 center by 32 | | 10,330.80 601.50ft MD | -675.58 (10299.21 TV | -314.49 D, -683.68 N, | 419,118.51 , -311.20 E) | 656,047.99 | 32° 9' 6.092731 N | 103° 57' 45.629397 |
| PBHL (Corral Bluff - plan hits target cen - Point | 0.00 ter | 0.01 | 10,335.80 | -11,177.54 | -276.13 | 408,617.37 | 656,086.35 | 32° 7' 22.172215 N | 103° 57' 45.603558 |

| Formations | | | | | | |
|------------|---------------------------|---------------------------|-----------------|-----------|------------|-------------------------|
| | Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| | 325.80 | 325.80 | RUSTLER | | | |
| | 759.80 | 759.80 | SALADO | | | |
| | 1,618.80 | 1,618.80 | CASTILE | | | |
| | 3,161.80 | 3,161.80 | DELAWARE | | | |
| | 3,197.80 | 3,197.80 | BELL CANYON | | | |
| | 4,054.80 | 4,054.80 | CHERRY CANYON | | | |
| | 5,595.80 | 5,595.80 | BRUSHY CANYON | | | |
| | 6,930.80 | 6,930.80 | BONE SPRING | | | |
| | 7,831.04 | 7,828.80 | BONE SPRING 1ST | | | |
| | 8,699.43 | 8,684.80 | BONE SPRING 2ND | | | |
| | 9,875.30 | 9,842.80 | BONE SPRING 3RD | | | |
| | 10,176.82 | 10,114.80 | WOLFCAMP | | | |
| | 10,404.05 | 10,259.80 | WOLFCAMP A | | | |

| Plan Anno | tations | | | | |
|-----------|--|--|--|---|--|
| | Measured | Vertical | Local Coor | dinates | |
| | Depth (ft) | Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment |
| | 7,070.00 8,070.00 9,868.91 10,693.00 20,998.98 | 7,070.00 8,064.93 9,836.51 10,330.80 10,335.80 | 0.00 -66.19 -303.72 -871.63 -11,177.54 | 0.00 -56.53 -259.40 -314.13 -276.13 | Build 1°/100' Hold 10° Tangent KOP, Build & Turn 10°/100' Landing Point TD at 20998.98' MD |

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

OXY

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Bluff 11_14

Well: Corral Bluff 11_14 Fed Com 31H

Wellbore: Wellbore #1
Design: Permitting Plan

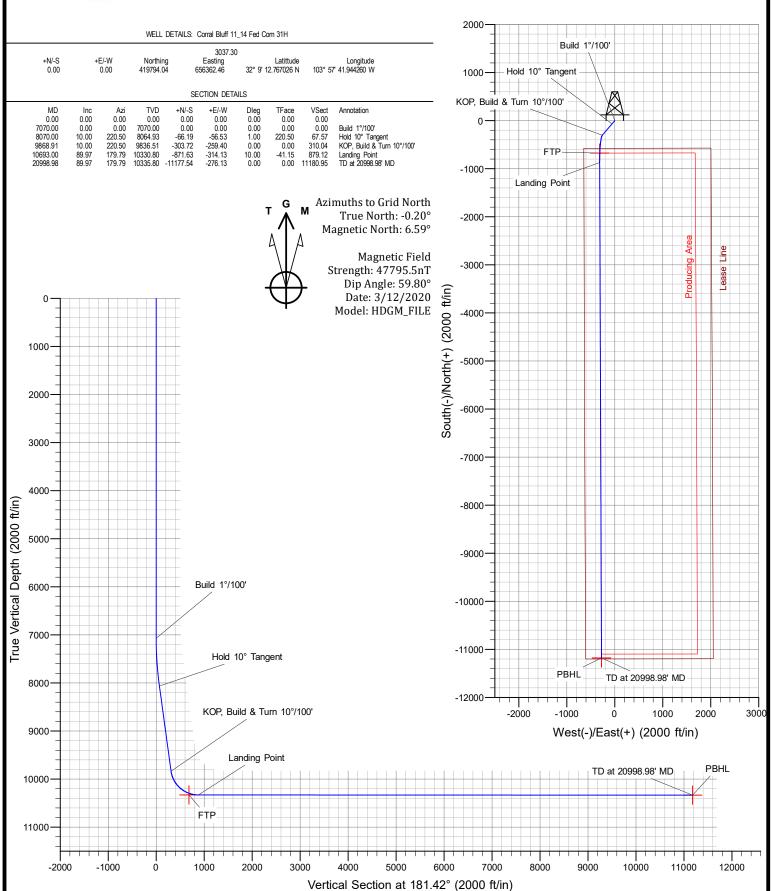
Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level



Oxy USA Inc. - Corral Bluff 11_14 Fed Com 31H Drill Plan

1. Geologic Formations

| TVD of Target (ft): | 10334 | Pilot Hole Depth (ft): | |
|----------------------------|-------|------------------------------------|-----|
| Total Measured Depth (ft): | 20997 | Deepest Expected Fresh Water (ft): | 326 |

Delaware Basin

| Formation | MD-RKB (ft) | TVD-RKB (ft) | Expected Fluids |
|-----------------|-------------|--------------|------------------------|
| Rustler | 326 | 326 | |
| Salado | 758 | 758 | Salt |
| Castile | 1617 | 1617 | Salt |
| Delaware | 3160 | 3160 | Oil/Gas/Brine |
| Bell Canyon | 3196 | 3196 | Oil/Gas/Brine |
| Cherry Canyon | 4053 | 4053 | Oil/Gas/Brine |
| Brushy Canyon | 5594 | 5594 | Losses |
| Bone Spring | 6929 | 6929 | Oil/Gas |
| Bone Spring 1st | 7830 | 7827 | Oil/Gas |
| Bone Spring 2nd | 8698 | 8683 | Oil/Gas |
| Bone Spring 3rd | 9874 | 9841 | Oil/Gas |
| Wolfcamp | 10177 | 10115 | Oil/Gas |
| Penn | | | Oil/Gas |
| Strawn | | | Oil/Gas |

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

2. Casing Program

| | | IV | ID | T۱ | /D | | | | |
|--------------|-----------|------|-------|------|-------|---------|---------|---------|-----------|
| | Hole | From | То | From | То | Csg. | Csg Wt. | | |
| Section | Size (in) | (ft) | (ft) | (ft) | (ft) | OD (in) | (ppf) | Grade | Conn. |
| Surface | 14.75 | 0 | 698 | 0 | 698 | 10.75 | 45.5 | J-55 | BTC |
| Intermediate | 9.875 | 0 | 9767 | 0 | 9735 | 7.625 | 26.4 | L-80 HC | ВТС |
| Production | 6.75 | 0 | 20997 | 0 | 10334 | 5.5 | 20 | P-110 | Wedge 461 |

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.

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| All Casing SF Values will meet or | | | | | | |
|-----------------------------------|----------|---------|----------|--|--|--|
| exceed those below | | | | | | |
| SF SF Body SF Joint SF | | | | | | |
| SF. | SF | Rody SF | Joint SF | | | |
| SF Collapse | <u> </u> | | Tension | | | |

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement 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? | Y |
| 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 | Y |
| the collapse pressure rating of the casing? | 1 |
| | |
| Is well located within Capitan Reef? | N |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? | |
| Is well within the designated 4 string boundary. | |
| | |
| Is well located in SOPA but not in R-111-P? | N |
| If yes, are the first 2 strings cemented to surface and 3 rd 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 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 strings cemented to surface? | |

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3. Cementing Program

| Section | Stage | Slurry: | Sacks | Yield (ft^3/ft) | Density (lb/gal) | Excess: | тос | Placement | Description |
|---------|-------|---------------------------|-------|--------------------|---------------------|---------|-------|------------|-------------------------------|
| Surface | 1 | Surface - Tail | 584 | 1.33 | 14.8 | 100% | - | Circulate | Class C+Accel. |
| Int. | 1 | Intermediate 1S - Tail | 536 | 1.65 | 13.2 | 5% | 5,844 | Circulate | Class H+Accel., Disper., Salt |
| Int. | 2 | Intermediate 2S - Tail BH | 903 | 1.71 | 13.3 | 25% | - | Bradenhead | Class C+Accel. |
| Prod. | 1 | Production - Tail | 886 | 1.38 | 13.2 | 25% | 9,267 | Circulate | Class H+Ret., Disper., Salt |

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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 monitoring.

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

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4. Pressure Control Equipment

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | | Туре | ✓ | Tested to: | Deepest TVD Depth (ft) per Section: | | | | | | | | |
|--|---------|------------------------|------------|------------|-------------|-------------------------|---|---|--|--|-----------|--|---|--|--|
| | | 3M | | Annular | ✓ | 70% of working pressure | | | | | | | | | |
| | | | | Blind Ram | ✓ | | 9735 | | | | | | | | |
| 9.875" Hole | 13-5/8" | 3M | | Pipe Ram | | 250 psi / 3000 psi | | | | | | | | | |
| | | SIVI | Double Ram | | > | 230 psi / 3000 psi | | | | | | | | | |
| | | | Other* | | | | I | | | | | | | | |
| | 13-5/8" | 5M | | Annular | > | 70% of working pressure | | | | | | | | | |
| | | | | | | i | | i | | | Blind Ram | | > | | |
| 6.75" Hole | | 5M | | Pipe Ram | | 250 poi / 5000 poi | 10334 | | | | | | | | |
| | | | | Double Ram | ✓ | 250 psi / 5000 psi | | | | | | | | | |
| | | | Other* | | | | | | | | | | | | |

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 manifold.

Page 5 of 8

^{*}Specify if additional ram is utilized

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.

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

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.

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5. Mud Program

| Section | Depth - MD | | Depth - TVD | | Tyma | Weight | Viceosity | Water |
|--------------|------------|---------|-------------|---------|--|------------|-----------|-------|
| Section | From (ft) | To (ft) | From (ft) | To (ft) | Туре | (ppg) | Viscosity | Loss |
| Surface | 0 | 698 | 0 | 698 | Water-Based Mud | 8.6 - 8.8 | 40-60 | N/C |
| Intermediate | 698 | 9767 | 698 | 9735 | Saturated Brine-Based or Oil-Based Mud | 8.0 - 10.0 | 35-45 | N/C |
| Production | 9767 | 20997 | 9735 | 10334 | 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 | DVT/MD Tatas Wiscol Manitoring |
|----------------------------------|--------------------------------|
| loss or gain of fluid? | PVT/MD Totco/Visual Monitoring |

6. Logging and Testing Procedures

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

| Addit | ional 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 | 6718 psi |
| Abnormal Temperature | No |
| BH Temperature at deepest TVD | 163°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 Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

| DLIVI. | |
|--------|-------------------|
| N | H2S is present |
| Υ | 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 3 well pad in batch by section: all surface sections, intermediate | Vac |
| sections and production sections. The wellhead will be secured with a night cap whenever | Yes |
| the rig is not over the well. | |
| 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, | Yes |
| 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. | |

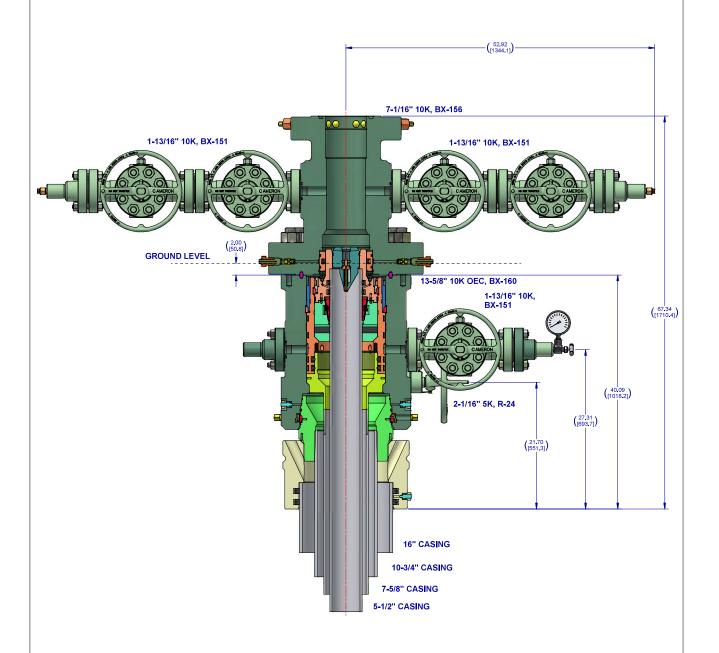
Total Estimated Cuttings Volume: 1504 bbls

Attachments

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

9. Company Personnel

| Name | <u>Title</u> | Office Phone | Mobile Phone |
|------------------|------------------------------|--------------|---------------------|
| Garrett Granier | Drilling Engineer | 713-513-6633 | 832-265-0581 |
| Derek Adam | Drilling Engineer Supervisor | 713-366-5170 | 916-802-8873 |
| Casey Martin | Drilling Superintendent | 713-497-2530 | 337-764-4278 |
| Kevin Threadgill | Drilling Manager | 713-366-5958 | 361-815-0788 |

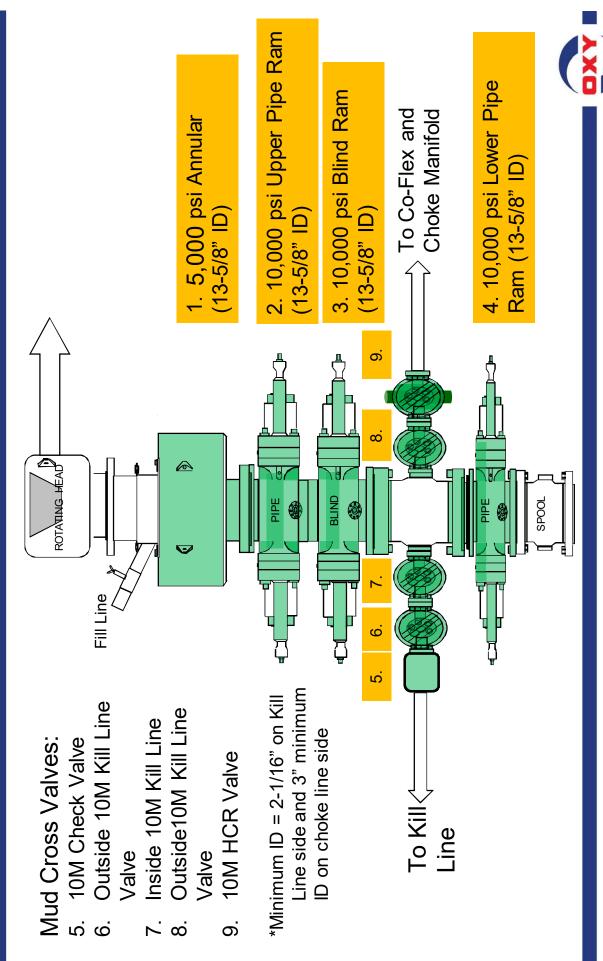


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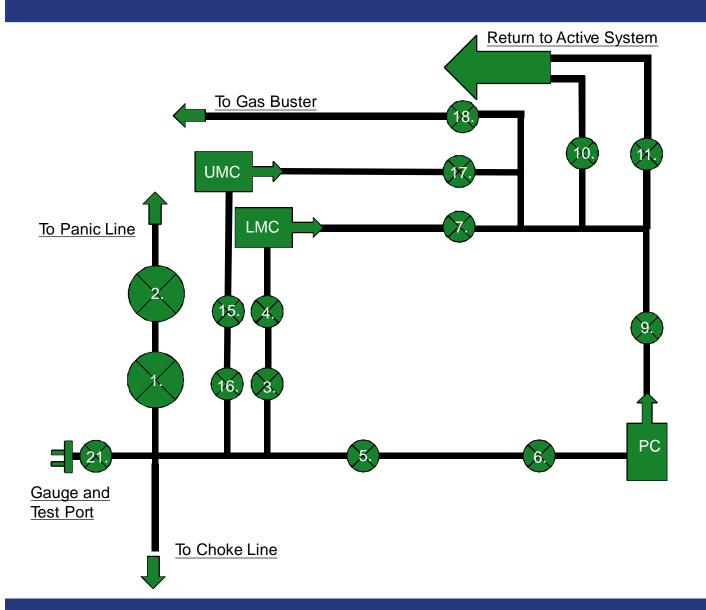
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| CHECKED BY: | DATE | | | |
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| APPROVED BY: | DATE | 16" X 10-3/4" X 7-5/8" X 5-1/2" | | C5-1/2" |
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5/10M BOP Stack



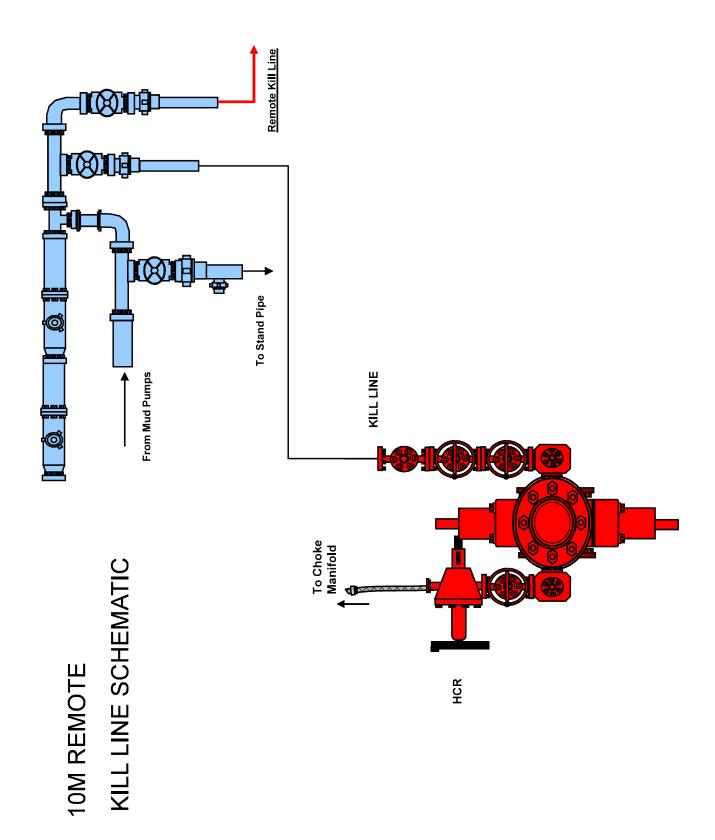
10M Choke Panel

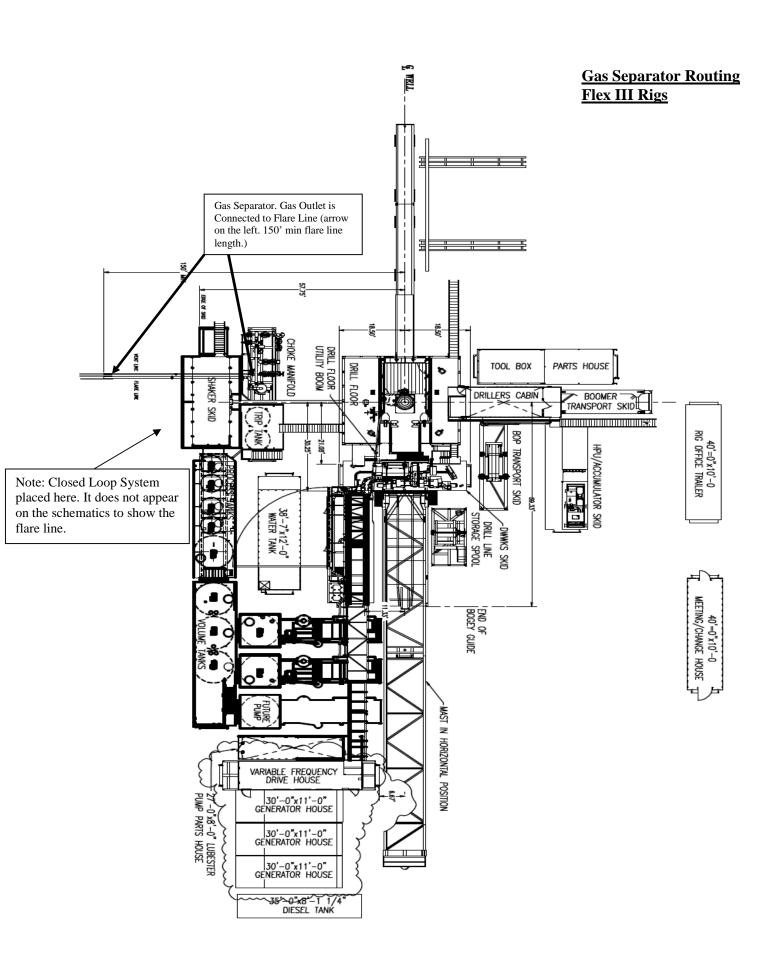


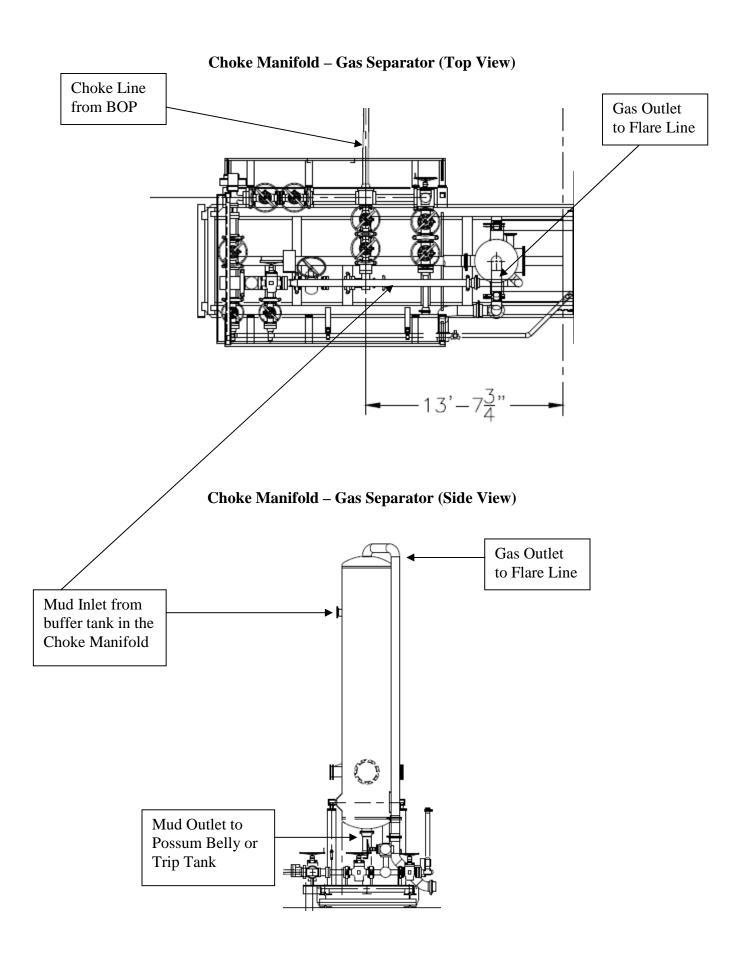
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- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual Choke
- 13. UMC Upper manual choke
- 15. Choke Manifold Valve
- 16. Choke Manifold Valve
- 17. Choke Manifold Valve
- 18. Choke Manifold Valve
- 21. Vertical Choke Manifold Valve

*All Valves 3" minimum









OXY's Minimum Design Criteria

Burst, Collapse, and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software. A sundry will be requested if any lesser grade or different size casing is substituted.

1) Casing Design Assumptions

a) Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- External: Pore pressure in open hole.

CSG Test (Intermediate)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- External: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

CSG Test (Production)

- Internal:
 - For Drilling: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
 - For Production: The design pressure test should be the greater of (1) the planned test pressure prior to stimulation down the casing. (2) the regulatory test pressure, and (3) the expected gas lift system pressure. The design test fluid should be the fluid associated with pressure test having the greatest pressure.

o External:

- For Drilling: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.
- For Production: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Column (Surface)

- o Internal: Assumes a full column of gas in the casing with a Gas/Oil Gradient of 0.1 psi/ft in the absence of better information. It is limited to the controlling pressure based on the fracture pressure at the shoe or the maximum expected pore pressure within the next drilling interval, whichever results in a lower surface pressure.
- External: Fluid gradient below TOC, pore pressure from the TOC to the Intermediate CSG shoe (if applicable), and MW of the drilling mud that was in the hole when the CSG was run from Intermediate CSG shoe to surface.

Bullheading (Surface / Intermediate)

- Internal: The string must be designed to withstand a pressure profile based on the fracture pressure at the casing shoe with a column of water above the shoe plus an additional surface pressure (in psi) of 0.02 X MD of the shoe to account for pumping friction pressure.
- External: Mud weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Kick (Intermediate)

- The string must be designed to at least a gas kick load case unless the rig is unable to detect a kick. For the gas kick load case, the internal pressure profile must be based on a minimum volume of 50 bbl or the minimum kick detection capability of the rig, whichever is greater, and a kick intensity of 2.0 ppg for Class 1, 1.0 ppg of Class 2, and 0.5 ppg for Class 3 and 4 wells.
- Internal: Influx depth of the maximum pore pressure of 0.55 "gas kick gravity" of gas to surface while drilling the next hole section.
- External: Mud weight to the TOC, cement mix water gradient below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Producing (Production)

- Internal: SITP plus a packer fluid gradient to the shoe or top of packer.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Stimulating (Production)

- Internal: Surface pressure or pressure-relief system pressure, whichever is lower plus packer fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Injection / Stimulation Down Casing (Production)

- o Internal: Surface pressure plus injection fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

b) Collapse Loads

Lost Circulation (Surface / Intermediate)

- Internal: Lost circulation at the TD of the next hole section, and the fluid level falls to a depth where the hydrostatic of the mud equals pore pressure at the depth of the lost circulation zone.
- External: MW of the drilling mud that was in the hole when the casing was run.

Cementing (Surface / Intermediate / Production)

- Internal: Displacement fluid density.
- External: Mud weight from TOC to surface and cement slurry weight from TOC to casing shoe.

Full Evacuation (Production)

- Internal: Full void pipe.
- External: MW of drilling mud in the hole when the casing was run.

c) Tension Loads

Running Casing (Surface / Intermediate / Production)

 Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air.

Green Cement (Surface / Intermediate / Production)

Axial: Buoyant weight of the string plus cement plug bump pressure load.



Fluid Technology

Quality Document

CERTIFICATE OF CONFORMITY

Supplier: CONTITECH RUBBER INDUSTRIAL KFT.

Equipment: 6 pcs. Choke and Kill Hose with installed couplings

Type: 3" x 10,67 m WP: 10000 psi

Supplier File Number : 412638

Date of Shipment : April. 2008

Customer : Phoenix Beattie Co.

Customer P.o. : 002491

Referenced Standards

/ Codes / Specifications: API Spec 16 C

Serial No.: 52754,52755,52776,52777,52778,52782

STATEMENT OF CONFORMITY

We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

COUNTRY OF ORIGIN HUNGARY/EU

Signed : Dan Lines

ontiTech Rubber Industrial Kft. Quality Control Dept.

Position: Q.C. Manager

Date: 04. April. 2008

Page: 1/1

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| SC725-132CS | SAFETY CLAMP 132MM 7.25T | CARBON STEEL | | 1 | 2242 | H139 | | 22 | | |
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We hereby certify that these goods have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industry standards within the requirements of the purchase order as issued to Phoenix Beattle Corporation.

Released to Imaging: 6/14/2023 8:56:59 AM

Form No 100/12

→ PHOENIX Beattie

Phoenix Beattle Corp

11535 Brittmoore Park Drive Houston, TX 77041 Tel: (832) 327-0141 Fax: (832) 327-0148 E-mail mail@phoenixbeattie.com www.phoenixbeattie.com

Delivery Note

| Customer Order Number | 370-369-001 | Delivery Note Number | 003078 | Page | 1 |
|---|-------------|--|--------|------|---|
| Customer / Invoice Address HELMERICH & PAYNE INT'L C 1437 SOUTH BOULDER TULSA, OK 74119 | | Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIG 13609 INDUSTRIAL ROAD HOUSTON, TX 77015 | G 370 | | - |

| Customer Acc No | Phoenix Beattie Contract Manager | Phoenix Beattie Reference | Date |
|-----------------|----------------------------------|---------------------------|------------|
| H01 | JJL | 006330 | 05/23/2008 |

| Item No | Beattie Part Number / Description | Qty Ordered | Qty Sent | Qty To Follow |
|------------|---|----------------|-------------|------------------|
| 1 | HP10CK3A-35-4F1 3" 10K 16C C&K HOSE x 35ft OAL CW 4.1/16" API SPEC FLANGE E/ End 1: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End 2: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange c/w BX155 Standard ring groove at each end Suitable for H2S Service Working pressure: 10.000psi Test pressure: 15.000psi Standard: API 16C Full specification Armor Guarding: Included Fire Rating: Not Included Temperature rating: -20 Deg C to +100 Deg C | 1 | 1 | 0 |
| 2 | SECK3-HPF3 LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-35-F1 2 x 160mm ID Safety Clamps 2 x 244mm ID Lifting Collars & element C's 2 x 7ft Stainless Steel wire rope 3/4" OD 4 x 7.75t Shackles | 1 | 1 | 0 |
| - | SC725-200CS SAFETY CLAMP 200MM 7.25T C/S GALVANISED | 1 | 1 | 0 |

Continued...

All goods remain the property of Phoenix Beattie until paid for in full. Any damage or shortage on this delivery must be advised within 5 days. Returns may be subject to a handling charge.



Fluid Technology

Quality Document

| QUALI INSPECTION A | TY CONT | _ | ATE | CERT. N | No: | 746 |
|---|---|---------------|----------------|----------|--|-------------------|
| | Phoenix Bea | | | P.O. N°: | 00 | 02491 |
| CONTITECH ORDER N°: | 412638 | HOSE TYPE: | 3" ID | Cho | oke and Kil | Hose |
| HOSE SERIAL Nº: | 52777 | NOMINAL / ACT | TUAL LENGTH | : | 10,67 m | |
| W.P. 68,96 MPa 10 | 0000 psi | T.P. 103,4 | MPa 1500 | O psi | Duration: | 60 ~ m |
| 2 | See attachment. (1 page) | | | | | |
| → 10 mm = 25 MPa | 1 | COUPL | INGS | | | |
| Туре | 1 | Serial N° | | Quality | | Heat N° |
| 3" coupling with | 917 | 913 | AIS | SI 4130 | | T7998A |
| 4 1/16" Flange end | | | AIS | SI 4130 | | 26984 |
| INFOCHIP INSTALLI | INFOCHIP INSTALLED API Spec 16 C Temperature rate:"B" | | | | | |
| WE CERTIFY THAT THE ABOVE PRESSURE TESTED AS ABOVE | | | RED IN ACCOR | DANCE WI | TH THE TERM | S OF THE ORDER AN |
| Date: | Inspector | | Quality Contro | ol | | |
| 04. April. 2008 | and principal designs and the superiodic seaso designs of the | | Dacan. | Ind | Tech Rubber ustrial Kft. Control Dept (1) | |

Form No 100/12

→ PHOENIX Beattie

Phoenix Beattie Corp

11535 Brittmoore Park Drive Houston, TX 77041 Tel: (832) 327-0141 Fax: (832) 327-0148 E-mail mail@phoenixbeattie.com

Delivery Note

| Customer Order Number | 370-369-001 | Delivery Note Number | 003078 | Page | 2 |
|--|-------------|---|--------|------|---|
| Customer / Invoice Addres HELMERICH & PAYNE INT'L D 1437 SOUTH BOULDER TULSA, OK 74119 | | Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RI 13609 INDUSTRIAL ROAD HOUSTON, TX 77015 | G 370 | | |

| Customer Acc No | Phoenix Beattie Contract Manager | Phoenix Beattle Reference | Date |
|-----------------|----------------------------------|---------------------------|------------|
| H01 | JJL | 006330 | 05/23/2008 |

| Item No | Beattie Part Number / Description | Qty Ordered | Qty Sent | Oty To Follow |
|------------|---|----------------|------------------------------|------------------|
| 4 | SC725-132CS SAFETY CLAMP 132MM 7.25T C/S GALVANIZED C/W BOLTS | 1 | 1 | 0 |
| | OOCERT-HYDRO HYDROSTATIC PRESSURE TEST CERTIFICATE | 1 | 1 | 0 |
| 6 | OOCERT-LOAD LOAD TEST CERTIFICATES | 1 | 1 | 0 |
| | OOFREIGHT INBOUND / OUTBOUND FREIGHT PRE-PAY & ADD TO FINAL INVOICE NOTE: MATERIAL MUST BE ACCOMPANIED BY PAPERWORK INCLUDING THE PURCHASE ORDER, RIG NUMBER TO ENSURE PROPER PAYMENT | | 1 | 0 |
| | | | $\left \bigcap_{i} \right $ | |

Phoenix Beattle Inspection Signature:

Received In Good Condition: Signature

Print Name

Date

All goods remain the property of Phoenix Beattle until paid for in full. Any damage or shortage on this delivery must be advised within 5 days. Returns may be subject to a handling charge.

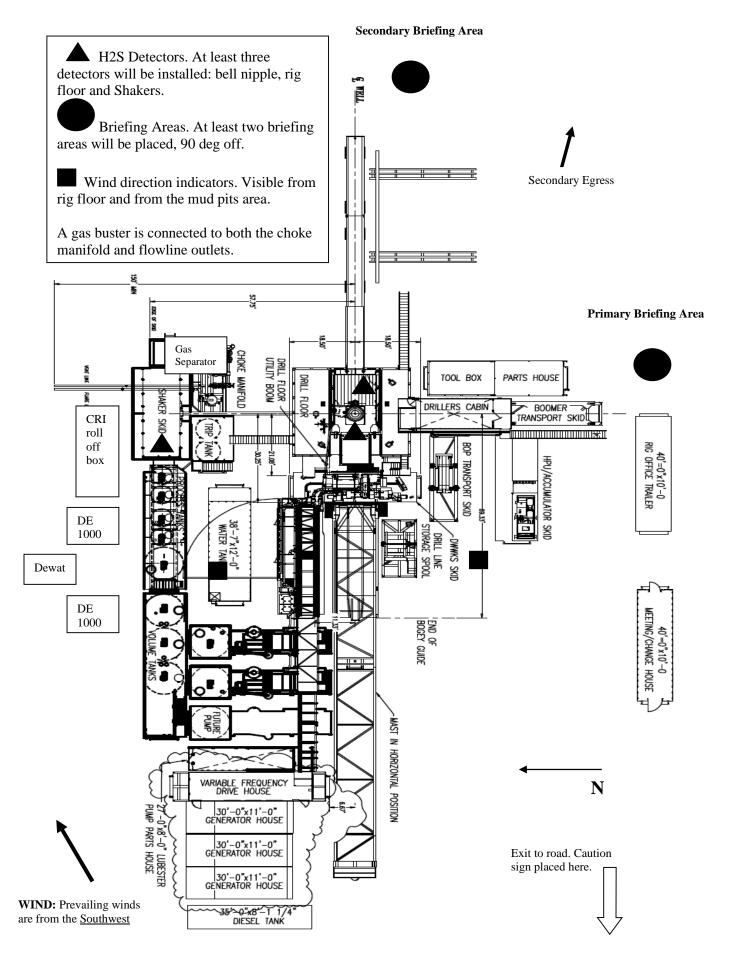


Permian Drilling Hydrogen Sulfide Drilling Operations Plan

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.



OXY USA Inc APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: OXY USA Inc

1. SUMMARY OF REQUEST:

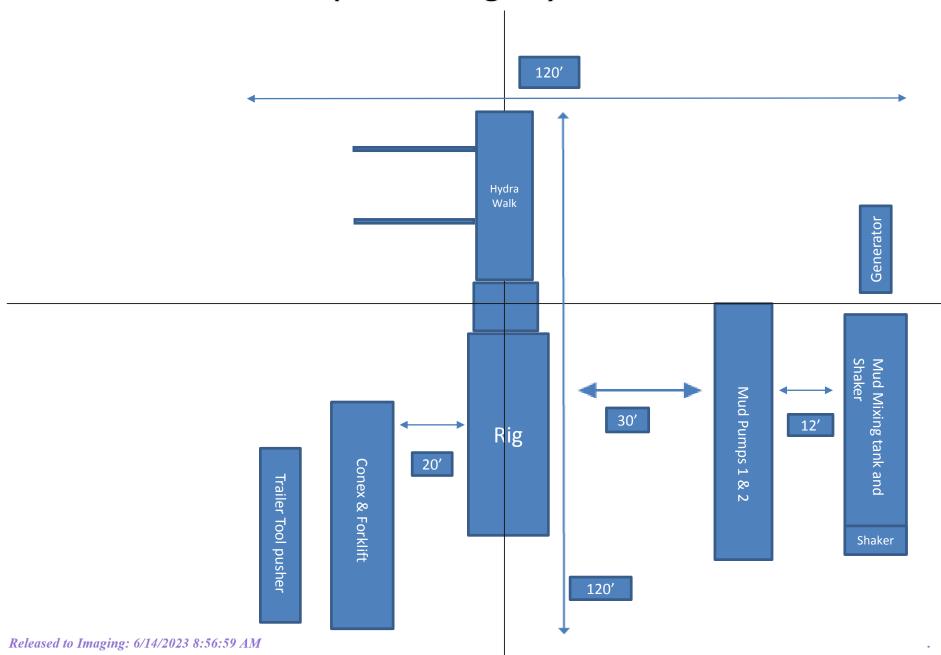
Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

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 (OnShore Order 2, 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 nippled 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





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 | Туре | Casing |
| Connection OD Option | REGULAR | | | | |

Pipe Body Data

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

| Performance | |
|------------------------------|--------------|
| Body Yield Strength | 641 x1000 lb |
| Min. Internal Yield Pressure | 12,640 psi |
| SMYS | 110,000 psi |
| Collapse Pressure | 11,100 psi |

Connection Data

| Geometry | |
|----------------------|-----------|
| Connection OD | 5.777 in. |
| Connection ID | 4.734 in. |
| Make-up Loss | 5.823 in. |
| Threads per inch | 3.77 |
| Connection OD Option | Regular |

| Performance | |
|----------------------------|--------------|
| Tension Efficiency | 90 % |
| Joint Yield Strength | 577 x1000 lb |
| Internal Pressure Capacity | 12,640 psi |
| Compression Efficiency | 90 % |
| Compression Strength | 577 x1000 lb |
| Max. Allowable Bending | 82 °/100 ft |
| External Pressure Capacity | 11,100 psi |

| Make-Up Torques | |
|-------------------------|--------------|
| Minimum | 15,700 ft-lb |
| Optimum | 19,600 ft-lb |
| Maximum | 21,600 ft-lb |
| Operation Limit Torques | |
| Operating Torque | 29,000 ft-lb |
| Yield Torque | 36,000 ft-lb |
| | |

Notes

This connection is fully interchangeable with: TORQ® SFW $^{\text{m}}$ - 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

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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 | Туре | Casing |
| Connection OD Option | REGULAR | | | | |

Pipe Body Data

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

| Performance | |
|------------------------------|--------------|
| Body Yield Strength | 641 x1000 lb |
| Min. Internal Yield Pressure | 12,640 psi |
| SMYS | 110,000 psi |
| Collapse Pressure | 11,100 psi |

Connection Data

| Geometry | |
|----------------------|-----------|
| Connection OD | 5.852 in. |
| Coupling Length | 8.714 in. |
| Connection ID | 4.778 in. |
| Make-up Loss | 3.780 in. |
| Threads per inch | 3.40 |
| Connection OD Option | Regular |

| Performance | |
|----------------------------|--------------|
| Tension Efficiency | 81.50 % |
| Joint Yield Strength | 522 x1000 lb |
| Internal Pressure Capacity | 12,640 psi |
| Compression Efficiency | 81.50 % |
| Compression Strength | 522 x1000 lb |
| Max. Allowable Bending | 71 °/100 ft |
| External Pressure Capacity | 11,100 psi |

| Make-Up Torques | |
|-------------------------------|--------------|
| Minimum | 15,000 ft-lb |
| Optimum | 16,000 ft-lb |
| Maximum | 19,200 ft-lb |
| Operation Limit Torques | |
| | |
| Operating Torque | 32,000 ft-lb |
| Operating Torque Yield Torque | 32,000 ft-lb |
| | |
| Yield Torque | |

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

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TenarisHydril

5.500" 20.00 lb/ft P110-CY TenarisHydril Wedge 461™ Matched Strength



Special Data Sheet TH DS-20.0359 12 August 2020 Rev 00

| Nominal OD | 5.500 in. | Wall Thickness | 0.361 in. | Grade | P110-CY |
|-------------------------|------------------|------------------------|----------------|---------------------------|------------------|
| Min Wall Thickness | 87.5% | Туре | CASING | Connection OD Option | MATCHED STRENGTH |
| Pipe Body Data | | | | | |
| Geometry | | | | Performance | |
| Nominal OD | 5.500 in. | Nominal ID | 4.778 in. | Body Yield Strength | 641 x 1000 lbs |
| Nominal Weight | 20.00 lbs/ft | Wall Thickness | 0.361 in. | Internal Yield | 12640 psi |
| Standard Drift Diameter | 4.653 in. | Plain End Weight | 19.83 lbs/ft | SMYS | 110000 psi |
| Special Drift Diameter | N/A | OD Tolerance | API | Collapse Pressure | 11110 psi |
| Connection Data | | | | | |
| Geometry | | Performance | | Make-up Torques | |
| Matched Strength OD | 6.050 in. | Tension Efficiency | 100% | Minimum | 17000 ft-lbs |
| Make-up Loss | 3.775 in. | Joint Yield Strength | 641 x 1000 lbs | Optimum | 18000 ft-lbs |
| Threads per in. | 3.40 | Internal Yield | 12640 psi | Maximum | 21600 ft-lbs |
| Connection OD Option | MATCHED STRENGTH | Compression Efficiency | 100% | Operational Limit Torques | ; |
| Coupling Length | 7.714 in. | Compression Strength | 641 x 1000 lbs | Operating Torque | 32000 ft-lbs |
| | | Bending | 92 °/100 ft | Yield Torque | 38000 ft-lbs |
| | | Collapse | 11110 psi | Buck-On Torques | |
| | | | | Minimum | 21600 ft-lbs |
| | | | | Maximum | 23100 ft-lbs |

Notes

^{*}If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 215988

CONDITIONS

| Operator: | OGRID: |
|-----------------------|--------------------------------------|
| OXY USA INC | 16696 |
| P.O. Box 4294 | Action Number: |
| Houston, TX 772104294 | 215988 |
| | Action Type: |
| | [C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--------------|-------------------|
| dmcclure | NSL required | 6/14/2023 |