Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. MULTIPLE

6. If Indian, Allottee or Tribe Name: MULTIPLE

7. If Unit of CA/Agreement, Name and/or No.: MULTIPLE

1. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.: MULTIPLE

2. Name of Operator: OXY USA INCORPORATED

9. API Well No.: MULTIPLE

3a. Address: 5 Greenway Plaza, Suite 110, Houston, TX 7704(

3b. Phone No. *(include area code)*: (713) 366-5716

10. Field and Pool or Exploratory Area: MULTIPLE

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*: MULTIPLE

11. Country or Parish, State: MULTIPLE

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

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

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

OXY USA Inc. kindly requests the following updates to the approved APD's for the subject wells. Supporting docs for each well are attached to this bulk sundry. The updates to each of the wells included in this bulk sundry are similar and are noted below. A datasheet is included on page 1 of the attachments and provides the updated drilling data for the well with the deepest TVD (Top Spot 12_13 Fed Com 313H). There are no changes to surface hole locations.

Top Spot 12_13 Fed Com 313H - BHL shift 1000 FEL to 1190 FEL, Pool change Bone Spring to Wolfcamp ((C102 & Drill Path), 4 string to 3 string casing, Target TVD 11531' to 11936' (Drill Plan, Well Control Plan, Directional Survey, Directional Plot, Wellhead Diagram, W461 Casing Connection Datasheet).

Top Spot 12_13 Fed Com 312H - BHL shift Lot B, 2540 FEL to Lot C, 2580 FWL, Pool change Bone Spring to Wolfcamp ((C102 & Drill Path), 4 string to 3 string casing, Target TVD 11516' to 11901' (Drill Plan, Well Control Plan, Directional Survey, Directional Plot, Wellhead Diagram, W461 Casing Connection Datasheet).

Continued on page 3 additional information - Top Spot 12_13 Fed Com 34H & Top Spot 12_13 Fed Com 35H (See Pg. 3).

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*: RONI MATHEW / Ph: (713) 215-7827

Title: REGULATORY SPECIALIST

Signature

Date: 09/29/2022

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by: KEITH P IMMATTY / Ph: (575) 988-4722 / Approved

Title: ENGINEER

Date: 11/28/2022

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office: CARLSBAD

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Additional Remarks

Top Spot 12_13 Fed Com 34H - BHL shift 1640 FEL to 1940 FEL (C102 & Drill Path), 4 string to 3 string casing, Target TVD has minimal change (Drill Plan, Well Control Plan, Directional Survey, Directional Plot, Wellhead Diagram, W461 Casing Connection Datasheet).

Top Spot 12_13 Fed Com 35H - BHL shift 330' FEL to 440' FEL (C102 & Drill Path), 4 string to 3 string casing, Target TVD 11875' to 11765' (Drill Plan, Well Control Plan, Directional Survey, Directional Plot, Wellhead Diagram, W461 Casing Connection Datasheet).

Batch Well Data

TOP SPOT 12_13 FED COM 312H, US Well Number: 3001547626, Case Number: NMNM29233, Lease Number: NMNM29233, Operator:OXY USA INCORPORATED

TOP SPOT 12_13 FED COM 313H, US Well Number: 3001547625, Case Number: NMNM29233, Lease Number: NMNM29233, Operator:OXY USA INCORPORATED

TOP SPOT 12_13 FED COM 34H, US Well Number: 3001547949, Case Number: NMNM29233, Lease Number: NMNM29233, Operator:OXY USA INCORPORATED

TOP SPOT 12-13 FEDERAL COM 35H, US Well Number: 3001547887, Case Number: NMNM29233, Lease Number: NMNM29233, Operator:OXY USA INCORPORATED

Well Name	Well Number	US Well Number	Lease Number	Case Number	Operator
TOP SPOT 12-13	35H	3001547887	NMNM29233	NMNM29233	OXY USA
TOP SPOT 12_13	312H	3001547626	NMNM29233	NMNM29233	OXY USA
TOP SPOT 12_13	34H	3001547949	NMNM29233	NMNM29233	OXY USA
TOP SPOT 12_13	313H	3001547625	NMNM29233	NMNM29233	OXY USA

Notice of Intent

Sundry ID: 2695486

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/29/2022

Time Sundry Submitted: 12:13

Date proposed operation will begin: 10/07/2022

Procedure Description: OXY USA Inc. kindly requests the following updates to the approved APD's for the subject wells. Supporting docs for each well are attached to this bulk sundry. The updates to each of the wells included in this bulk sundry are similar and are noted below. A datasheet is included on page 1 of the attachments and provides the updated drilling data for the well with the deepest TVD (Top Spot 12_13 Fed Com 313H). There are no changes to surface hole locations. Top Spot 12_13 Fed Com 313H - BHL shift 1000 FEL to 1190 FEL, Pool change Bone Spring to Wolfcamp ((C102 & Drill Path), 4 string to 3 string casing, Target TVD 11531' to 11936' (Drill Plan, Well Control Plan, Directional Survey, Directional Plot, Wellhead Diagram, W461 Casing Connection Datasheet). Top Spot 12_13 Fed Com 312H - BHL shift Lot B, 2540 FEL to Lot C, 2580 FWL, Pool change Bone Spring to Wolfcamp ((C102 & Drill Path), 4 string to 3 string casing, Target TVD 11516' to 11901' (Drill Plan, Well Control Plan, Directional Survey, Directional Plot, Wellhead Diagram, W461 Casing Connection Datasheet). Top Spot 12_13 Fed Com 34H - BHL shift 1640 FEL to 1940 FEL (C102 & Drill Path), 4 string to 3 string casing, Target TVD has minimal change (Drill Plan, Well Control Plan, Directional Survey, Directional Plot, Wellhead Diagram, W461 Casing Connection Datasheet). Top Spot 12_13 Fed Com 35H - BHL shift 330' FEL to 440' FEL (C102 & Drill Path), 4 string to 3 string casing, Target TVD 11875' to 11765' (Drill Plan, Well Control Plan, Directional Survey, Directional Plot, Wellhead Diagram, W461 Casing Connection Datasheet).

NOI Attachments

Procedure Description

TOP_SPOT_12_13_FED_COM_35H_SundryUpdates9.28.22_20220929113250.pdf

TOP_SPOT_12_13_FED_COM_34H_SundryUpdates9.28.22_20220929113238.pdf

TOP_SPOT_12_13_FED_COM_312H_SundryUpdates9.28.22_20220929113218.pdf

TOP_SPOT_12_13_FED_COM_313H_SundryUpdates9.28.22_20220929112925.pdf

Conditions of Approval

Additional

TOP_SPOT_12_13_FEDERAL_COM_BATCH_2695486___SUNDRY_COA_20221123134312.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: RONI MATHEW **Signed on:** SEP 29, 2022 12:12 PM

Name: OXY USA INCORPORATED

Title: REGULATORY SPECIALIST

Street Address: 5 Greenway Plaza, Suite 110

City: Houston **State:** TX

Phone: (713) 215-7827

Email address: RONI_MATHEW@OXY.COM

Field

Representative Name: JIM WILSON

Street Address: 6001 DEAUVILLE BLVD.

City: MIDLAND **State:** TX **Zip:** 79710

Phone: (575)631-2442

Email address: JIM_WILSON@OXY.COM

BLM Point of Contact

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

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

Disposition: Approved **Disposition Date:** 11/28/2022

Signature: KEITH IMMATTY

Intent [X] As Drilled [ ]

API #
30-015-47625

Operator Name:	Property Name:	Well Number
OXY USA INC	TOP SPOT 12-13 FEDERAL COM	313H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	13	22S	31E		50	SOUTH	1190	EAST	EDDY

Latitude	Longitude	NAD
32.384385	-103.726803	NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	13	22S	31E		100	SOUTH	1190	EAST	EDDY

Latitude	Longitude	NAD
32.384522	-103.726803	NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	12	22S	31E		100	NORTH	1190	EAST	EDDY

Latitude	Longitude	NAD
32.413000	-103.726791	NAD 83

Is this well the defining well for the Horizontal Spacing Unit? YES

Is this well an infill well? [ ]

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

Estimated Formation Tops

Formation:	Top:	Formation:	Top:
RUSTLER	831	BONE SPRING 3RD	11193
SALADO	1128	WOLFCAMP	11718
CASTILE	2863		
DELAWARE	4500		
BELL CANYON	4568		
CHERRY CANYON	5412		
BRUSHY CANYON	6648		
BONE SPRING	8405		
BONE SPRING 1ST	9534		
BONE SPRING 2ND	10158		

Top Spot 12_13 Federal Com 34H, 35H, 312H, 313H - Bulk Sundry

Well Name	API #	TVD	TD MD	KOP MD	Landing Point MD
Top Spot 12_13 Fed Com 34H	30-015-47949	11737'	22400'	11174'	12150'
Top Spot 12_13 Fed Com 35H	30-015-47887	11765'	22419'	11208'	12169'
Top Spot 12_13 Fed Com 312H	30-015-47626	11901'	22628'	11422'	12378'
Top Spot 12_13 Fed Com 313H	30-015-47625	11936'	22547'	11299'	12297'

As requested, the updated casing and cementing data tables provided below is for the deepest of the wells noted and highlighted above. Additionally, updated drill plans, directional surveys, and drill plots for each of the wells in the table above are attached to the bulk sundry submission in AFMSS.

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.

		MD		TVD					
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	14.75	0	891	0	891	10.75	45.5	J-55	BTC
Intermediate	9.875	0	11199	0	11150	7.625	26.4	L-80 HC	BTC
Production	6.75	0	22547	0	11936	5.5	20	P-110	Wedge 461

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	745	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	588	1.65	13.2	5%	6,898	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	1065	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	2633	1.38	13.2	25%	10,699	Circulate	Class H+Ret., Disper., Salt

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
30-015-47625	98351	WC 22S31E13; WOLFCAMP

Property Code	Property Name	Well Number
329719	TOP SPOT 12_13 FEDERAL COM	313H

OGRID No.	Operator Name	Elevation
16696	OXY USA, INC.	3580.6'

Surface Location

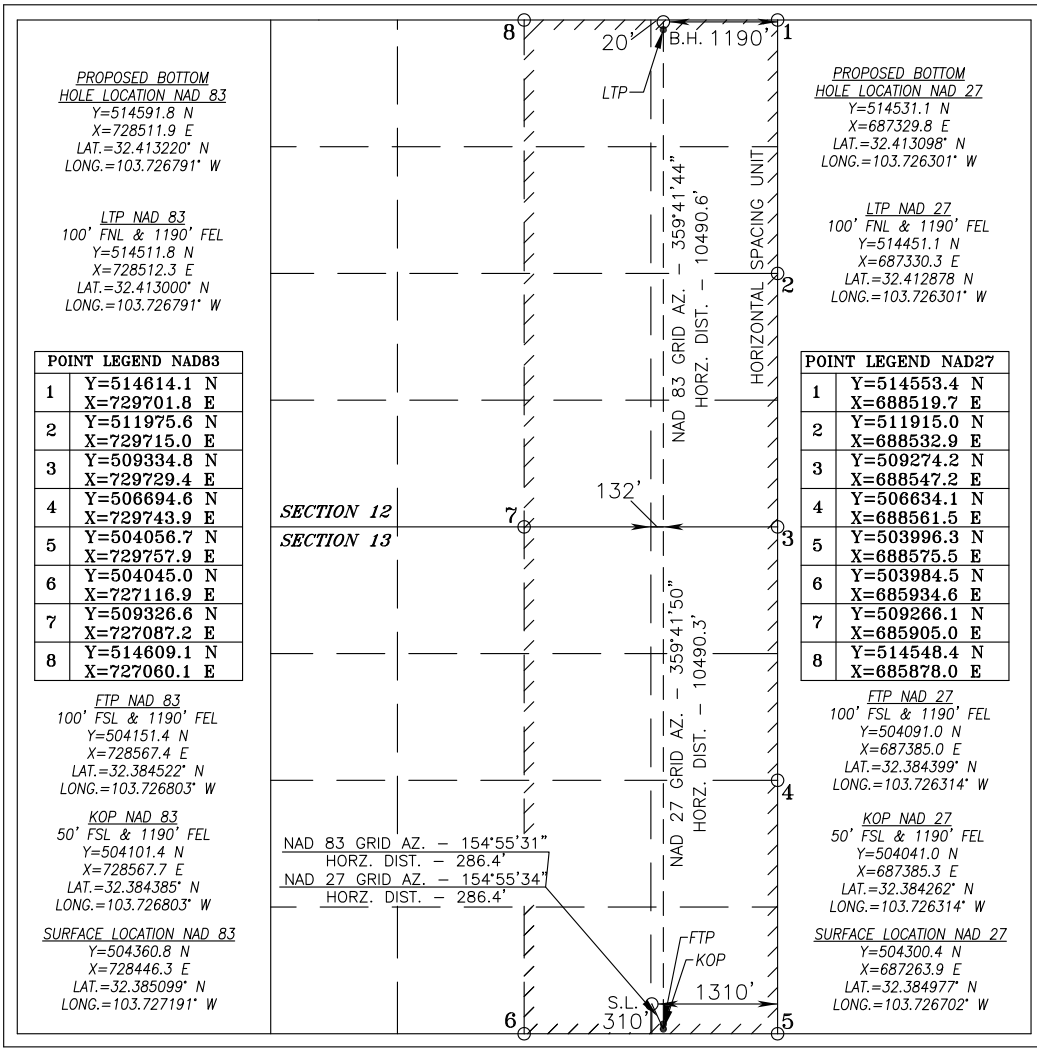
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	13	22-S	31-E		310	SOUTH	1310	EAST	EDDY

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
A	12	22-S	31-E		20	NORTH	1190	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640			

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.

Roni Mathew 8/30/2022
Signature Date

Roni Mathew
Printed Name

roni_mathew@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.

SEPTEMBER 27, 2019
Date of Survey

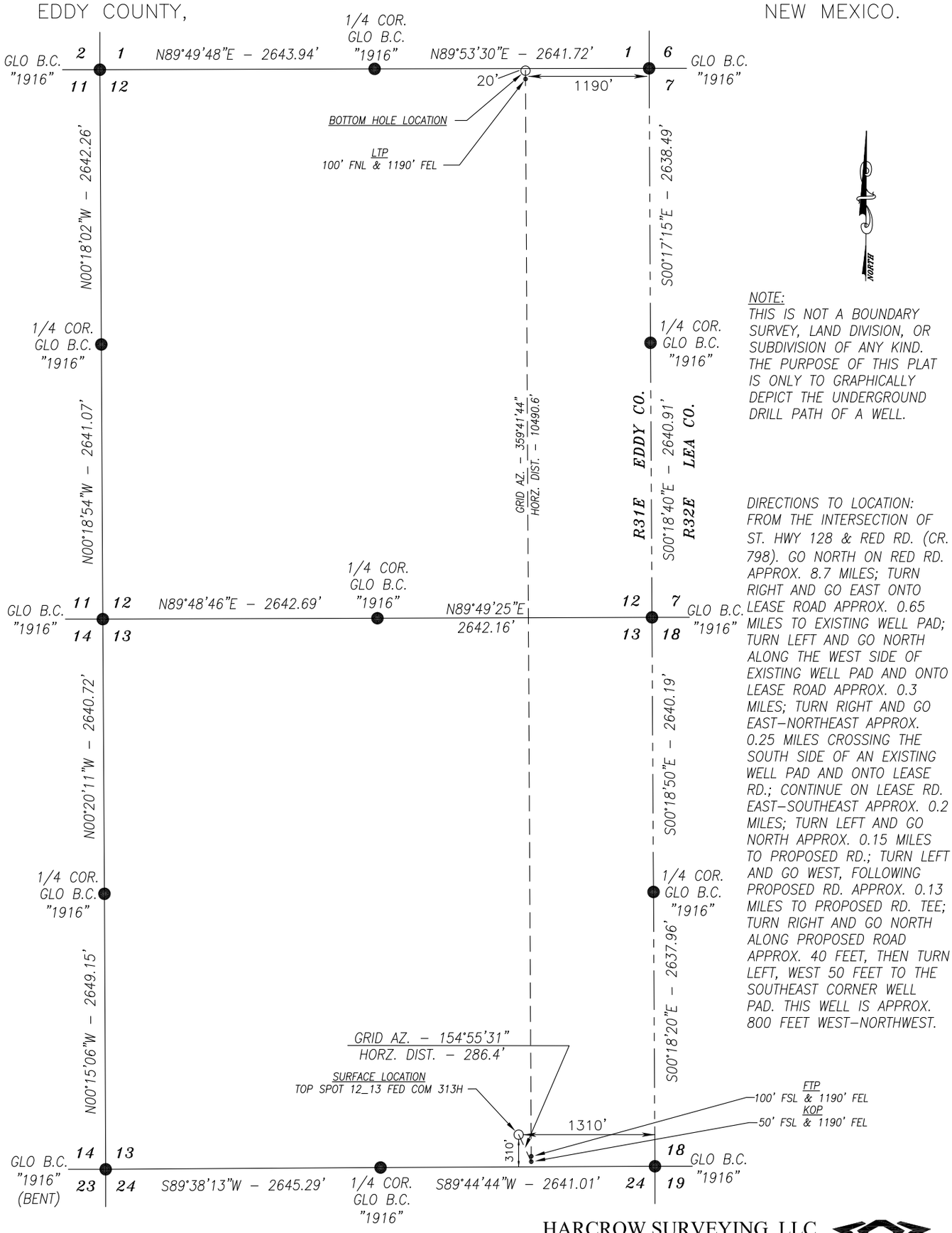
Signature & Seal of Professional Surveyor

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/17/22
Certificate No. CHAD HARCROW 17777
W.O. #22-828 DRAWN BY: WN

SECTION 13, TOWNSHIP 22 SOUTH, RANGE 31 EAST, N.M.P.M.,

EDDY COUNTY, NEW MEXICO.



NOTE:
THIS IS NOT A BOUNDARY SURVEY, LAND DIVISION, OR SUBDIVISION OF ANY KIND. THE PURPOSE OF THIS PLAT IS ONLY TO GRAPHICALLY DEPICT THE UNDERGROUND DRILL PATH OF A WELL.

DIRECTIONS TO LOCATION:
FROM THE INTERSECTION OF ST. HWY 128 & RED RD. (CR. 798). GO NORTH ON RED RD. APPROX. 8.7 MILES; TURN RIGHT AND GO EAST ONTO LEASE ROAD APPROX. 0.65 MILES TO EXISTING WELL PAD; TURN LEFT AND GO NORTH ALONG THE WEST SIDE OF EXISTING WELL PAD AND ONTO LEASE ROAD APPROX. 0.3 MILES; TURN RIGHT AND GO EAST–NORTHEAST APPROX. 0.25 MILES CROSSING THE SOUTH SIDE OF AN EXISTING WELL PAD AND ONTO LEASE RD.; CONTINUE ON LEASE RD. EAST–SOUTHEAST APPROX. 0.2 MILES; TURN LEFT AND GO NORTH APPROX. 0.15 MILES TO PROPOSED RD.; TURN LEFT AND GO WEST, FOLLOWING PROPOSED RD. APPROX. 0.13 MILES TO PROPOSED RD. TEE; TURN RIGHT AND GO NORTH ALONG PROPOSED ROAD APPROX. 40 FEET, THEN TURN LEFT, WEST 50 FEET TO THE SOUTHEAST CORNER WELL PAD. THIS WELL IS APPROX. 800 FEET WEST–NORTHWEST.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE GRID VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/17/22
CHAD HARCROW N.M.P.S. NO. 17777 DATE

HARCROW SURVEYING, LLC
2316 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 746-2158
c.harcrow@harcrowsurveying.com

1200 0 1200 2400 FEET
SCALE: 1"=1200'

OXY USA INC.

TOP SPOT 12_13 FEDERAL COM 313H
SECTION 13, TOWNSHIP 22 SOUTH, RANGE 31 EAST, NMPM, EDDY COUNTY, NEW MEXICO

SURVEY DATE: SEPTEMBER 27, 2019	DRILL PATH
DRAFTING DATE: AUGUST 15, 2022	PAGE 1 OF 1
APPROVED BY: CH / DRAWN BY: DS	FILE: 22–828

Oxy USA Inc. - Top Spot 12_13 Federal Com 313H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	11936	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22547	Deepest Expected Fresh Water (ft):	831

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	831	831	
Salado	1128	1128	Salt
Castile	2863	2863	Salt
Delaware	4500	4500	Oil/Gas/Brine
Bell Canyon	4568	4568	Oil/Gas/Brine
Cherry Canyon	5412	5412	Oil/Gas/Brine
Brushy Canyon	6648	6648	Losses
Bone Spring	8405	8400	Oil/Gas
Bone Spring 1st	9534	9512	Oil/Gas
Bone Spring 2nd	10158	10126	Oil/Gas
Bone Spring 3rd	11193	11146	Oil/Gas
Wolfcamp	11718	11652	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	14.75	0	891	0	891	10.75	45.5	J-55	BTC
Intermediate	9.875	0	11199	0	11150	7.625	26.4	L-80 HC	BTC
Production	6.75	0	22547	0	11936	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.

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?	Y
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	Y
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:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	745	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	588	1.65	13.2	5%	6,898	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	1065	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	2633	1.38	13.2	25%	10,699	Circulate	Class H+Ret., Disper., Salt

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

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:
9.875" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	11150
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
6.75" Hole	13-5/8"	5M	Annular	✓	100% of working pressure	11936
		10M	Blind Ram	✓	250 psi / 10000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			

*Specify if additional ram is utilized

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

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.

	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

5. Mud Program

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	891	0	891	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	891	11199	891	11150	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	11199	22547	11150	11936	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	7759 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	176°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.	
N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

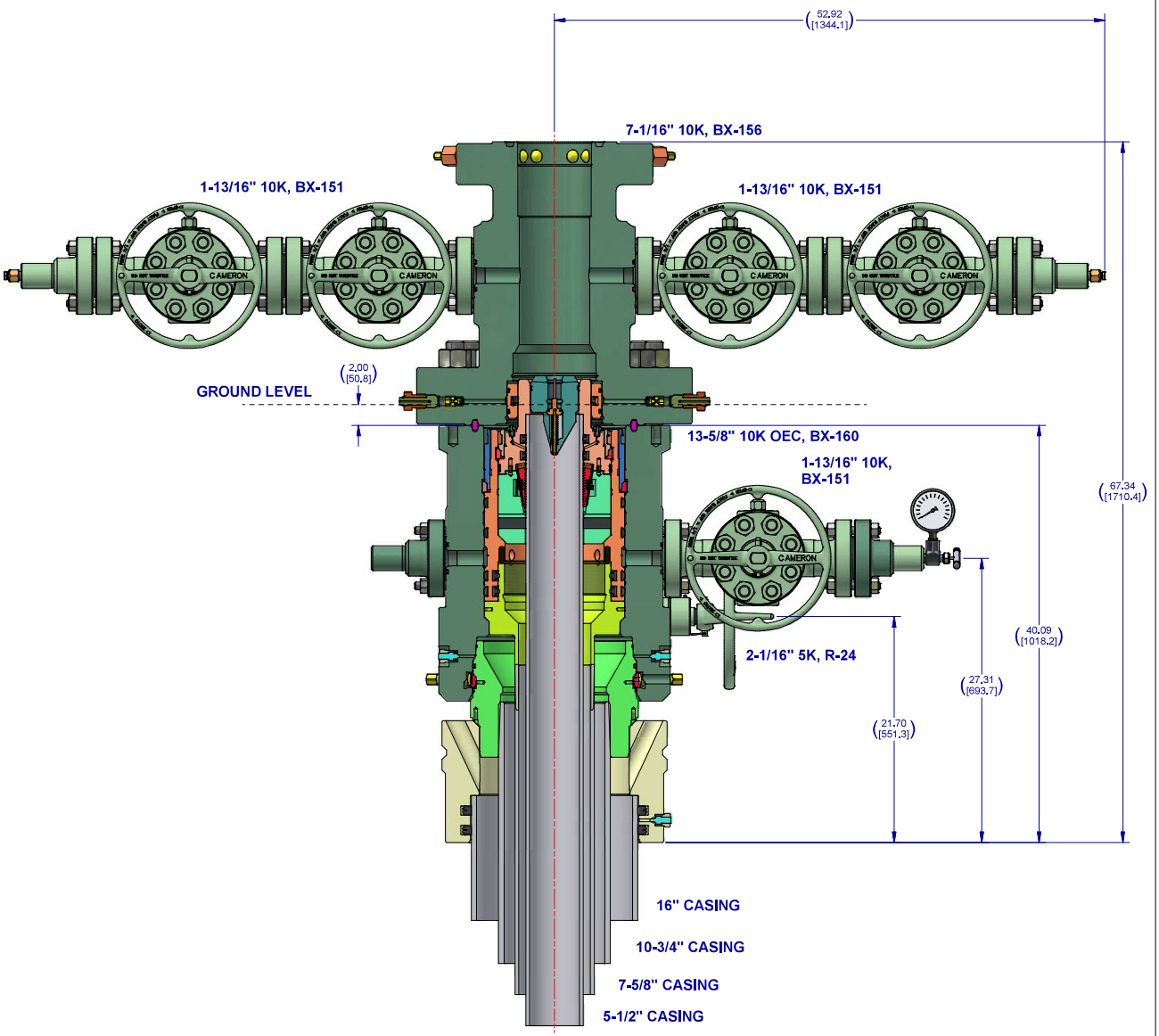
	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 4 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Total Estimated Cuttings Volume: 1668 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



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: 2 Dec 21		
MATERIAL & HEAT TREAT	CHECKED BY: D. GOTTUNG	DATE: 2 Dec 21	OXY 13-5/8" 10K ADAPT 16" X 10-3/4" X 7-5/8" X 5-1/2"	
	APPROVED BY: D. GOTTUNG	DATE: 2 Dec 21		
ESTIMATED WEIGHT:	6515,617 LBS [2955,434 KG]	INITIAL USE B/M:	SHEET 4 OF 4	SD-053434-94-05 REV: 01

INVENTOR - D

Oxy Well Control Plan

A. Component and Preventer Compatibility Table

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

Pilot hole and Lateral sections, 10M requirement

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

VBR = Variable Bore Ram. Compatible range listed in chart.
HWDP = Heavy Weight Drill Pipe
MWD = Measurement While Drilling

B. Well Control Procedures

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

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. The Hydraulic Control Remote (HCR) valve and choke will already be in the closed position).
5. Confirm shut-in
6. Notify tool pusher/company representative

7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or expected to reach 70% of the annular RWP during kill operations, crew will reconfirm spacing and swap to the upper pipe ram

General Procedure While Tripping

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

General Procedure While Running Casing

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

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams or BSR. (The HCR and choke will already be in the closed position)
3. Confirm shut-in
4. Notify tool pusher/company representative

5. Read and record the following:
    a. SICP
    b. Pit gain
    c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drill pipe thru the stack.
    a. Perform flow check, if flowing:
    b. Sound alarm (alert crew)
    c. Stab full opening safety valve and close
    d. Space out drill string with tool joint just beneath the upper pipe ram
    e. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
    f. Confirm shut-in
    g. Notify tool pusher/company representative
    h. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
        iv. Regroup and identify forward plan

2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. Stab crossover and full opening safety valve and close
    c. Space out drill string with upset just beneath the compatible pipe ram
    d. Shut-in using compatible pipe ram. (The HCR and choke will already be in the closed position.)
    e. Confirm shut-in
    f. Notify tool pusher/company representative
    g. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
        iv. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. If possible to pick up high enough, pull string clear of the stack and follow “Open Hole” scenario
    c. If impossible to pick up high enough to pull the string clear of the stack
    d. Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close
    e. Space out drill string with tool joint just beneath the upper pipe ram

f. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
g. Confirm shut-in
h. Notify tool pusher/company representative
i. Read and record the following:
    i. SIDPP and SICP
    ii. Pit gain
    iii. Time

j. Regroup and identify forward plan

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)
Top Spot 12_13 Fed Com
Top Spot 12_13 Federal Com 313H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

22 September, 2022

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Top Spot 12_13 Federal Com 313H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3605.60ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3605.60ft
Site:	Top Spot 12_13 Fed Com	**North Reference:**	Grid
Well:	Top Spot 12_13 Federal Com 313H	**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 Top Spot 12_13 Fed Com

Site Position:		**Northing:**	514,494.39 usft	**Latitude:**	32.413000
From:	Map	**Easting:**	725,461.56 usft	**Longitude:**	-103.736677
Position Uncertainty:	49.91 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.32 °

Well Top Spot 12_13 Federal Com 313H

Well Position	**+N/-S**	-10,134.14 ft	**Northing:**	504,360.80 usft	**Latitude:**	32.385100
	+E/-W	2,984.90 ft	**Easting:**	728,446.30 usft	**Longitude:**	-103.727191
Position Uncertainty		1.00 ft	**Wellhead Elevation:**		**Ground Level:**	3,580.60 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	11/7/2019	6.75	60.10	48,027.20000000

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 (°)
	-1.50	0.00	0.00	0.37

Plan Survey Tool Program **Date** 9/22/2022

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,547.03	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	
7,395.00	0.00	0.00	7,395.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,394.55	10.00	169.95	8,389.48	-85.63	15.17	1.00	1.00	0.00	169.95	
11,299.35	10.00	169.95	11,250.20	-582.09	103.12	0.00	0.00	0.00	0.00	
12,297.03	89.92	359.70	11,920.87	-18.30	120.09	10.00	8.01	-17.07	-170.11	
22,547.03	89.92	359.70	11,935.60	10,231.54	65.60	0.00	0.00	0.00	0.00	PBHL (Top Spot

OXY

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Top Spot 12_13 Federal Com 313H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3605.60ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3605.60ft
Site:	Top Spot 12_13 Fed Com	**North Reference:**	Grid
Well:	Top Spot 12_13 Federal Com 313H	**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
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Top Spot 12_13 Federal Com 313H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3605.60ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3605.60ft
Site:	Top Spot 12_13 Fed Com	**North Reference:**	Grid
Well:	Top Spot 12_13 Federal Com 313H	**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)
5,500.00	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
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,395.00	0.00	0.00	7,395.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.05	169.95	7,400.00	0.00	0.00	0.00	1.00	1.00	0.00
7,500.00	1.05	169.95	7,499.99	-0.95	0.17	-0.95	1.00	1.00	0.00
7,600.00	2.05	169.95	7,599.96	-3.61	0.64	-3.61	1.00	1.00	0.00
7,700.00	3.05	169.95	7,699.86	-7.99	1.42	-7.98	1.00	1.00	0.00
7,800.00	4.05	169.95	7,799.66	-14.09	2.50	-14.07	1.00	1.00	0.00
7,900.00	5.05	169.95	7,899.35	-21.90	3.88	-21.87	1.00	1.00	0.00
8,000.00	6.05	169.95	7,998.88	-31.42	5.57	-31.39	1.00	1.00	0.00
8,100.00	7.05	169.95	8,098.22	-42.65	7.56	-42.61	1.00	1.00	0.00
8,200.00	8.05	169.95	8,197.35	-55.59	9.85	-55.53	1.00	1.00	0.00
8,300.00	9.05	169.95	8,296.24	-70.23	12.44	-70.15	1.00	1.00	0.00
8,394.55	10.00	169.95	8,389.48	-85.63	15.17	-85.53	1.00	1.00	0.00
8,400.00	10.00	169.95	8,394.86	-86.57	15.33	-86.47	0.00	0.00	0.00
8,500.00	10.00	169.95	8,493.34	-103.66	18.36	-103.54	0.00	0.00	0.00
8,600.00	10.00	169.95	8,591.82	-120.75	21.39	-120.61	0.00	0.00	0.00
8,700.00	10.00	169.95	8,690.30	-137.84	24.42	-137.68	0.00	0.00	0.00
8,800.00	10.00	169.95	8,788.78	-154.93	27.45	-154.75	0.00	0.00	0.00
8,900.00	10.00	169.95	8,887.27	-172.02	30.47	-171.82	0.00	0.00	0.00
9,000.00	10.00	169.95	8,985.75	-189.11	33.50	-188.89	0.00	0.00	0.00
9,100.00	10.00	169.95	9,084.23	-206.20	36.53	-205.96	0.00	0.00	0.00
9,200.00	10.00	169.95	9,182.71	-223.29	39.56	-223.03	0.00	0.00	0.00
9,300.00	10.00	169.95	9,281.19	-240.38	42.58	-240.11	0.00	0.00	0.00
9,400.00	10.00	169.95	9,379.68	-257.47	45.61	-257.18	0.00	0.00	0.00
9,500.00	10.00	169.95	9,478.16	-274.57	48.64	-274.25	0.00	0.00	0.00
9,600.00	10.00	169.95	9,576.64	-291.66	51.67	-291.32	0.00	0.00	0.00
9,700.00	10.00	169.95	9,675.12	-308.75	54.69	-308.39	0.00	0.00	0.00
9,800.00	10.00	169.95	9,773.61	-325.84	57.72	-325.46	0.00	0.00	0.00
9,900.00	10.00	169.95	9,872.09	-342.93	60.75	-342.53	0.00	0.00	0.00
10,000.00	10.00	169.95	9,970.57	-360.02	63.78	-359.60	0.00	0.00	0.00
10,100.00	10.00	169.95	10,069.05	-377.11	66.80	-376.67	0.00	0.00	0.00
10,200.00	10.00	169.95	10,167.53	-394.20	69.83	-393.75	0.00	0.00	0.00
10,300.00	10.00	169.95	10,266.02	-411.29	72.86	-410.82	0.00	0.00	0.00
10,400.00	10.00	169.95	10,364.50	-428.38	75.89	-427.89	0.00	0.00	0.00
10,500.00	10.00	169.95	10,462.98	-445.47	78.92	-444.96	0.00	0.00	0.00
10,600.00	10.00	169.95	10,561.46	-462.57	81.94	-462.03	0.00	0.00	0.00
10,700.00	10.00	169.95	10,659.94	-479.66	84.97	-479.10	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Top Spot 12_13 Federal Com 313H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3605.60ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3605.60ft
Site:	Top Spot 12_13 Fed Com	**North Reference:**	Grid
Well:	Top Spot 12_13 Federal Com 313H	**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)
10,800.00	10.00	169.95	10,758.43	-496.75	88.00	-496.17	0.00	0.00	0.00
10,900.00	10.00	169.95	10,856.91	-513.84	91.03	-513.24	0.00	0.00	0.00
11,000.00	10.00	169.95	10,955.39	-530.93	94.05	-530.32	0.00	0.00	0.00
11,100.00	10.00	169.95	11,053.87	-548.02	97.08	-547.39	0.00	0.00	0.00
11,200.00	10.00	169.95	11,152.36	-565.11	100.11	-564.46	0.00	0.00	0.00
11,299.35	10.00	169.95	11,250.20	-582.09	103.12	-581.42	0.00	0.00	0.00
11,300.00	9.93	169.89	11,250.84	-582.20	103.14	-581.53	10.00	-9.85	-9.95
11,400.00	1.72	82.53	11,350.32	-590.52	106.15	-589.82	10.00	-8.21	-87.36
11,500.00	10.35	9.08	11,449.73	-581.42	109.06	-580.71	10.00	8.63	-73.44
11,600.00	20.28	4.32	11,546.06	-555.20	111.79	-554.47	10.00	9.93	-4.76
11,700.00	30.26	2.62	11,636.38	-512.64	114.26	-511.89	10.00	9.97	-1.70
11,800.00	40.24	1.71	11,717.94	-455.03	116.38	-454.28	10.00	9.99	-0.91
11,900.00	50.24	1.11	11,788.26	-384.14	118.10	-383.37	10.00	9.99	-0.60
12,000.00	60.23	0.67	11,845.22	-302.11	119.36	-301.33	10.00	9.99	-0.44
12,100.00	70.22	0.31	11,887.07	-211.43	120.12	-210.65	10.00	9.99	-0.36
12,200.00	80.22	359.99	11,912.54	-114.86	120.36	-114.08	10.00	10.00	-0.32
12,297.03	89.92	359.70	11,920.87	-18.30	120.09	-17.53	10.00	10.00	-0.30
12,300.00	89.92	359.70	11,920.88	-15.33	120.07	-14.56	0.00	0.00	0.00
12,400.00	89.92	359.70	11,921.02	84.66	119.54	85.43	0.00	0.00	0.00
12,500.00	89.92	359.70	11,921.17	184.66	119.01	185.42	0.00	0.00	0.00
12,600.00	89.92	359.70	11,921.31	284.66	118.48	285.42	0.00	0.00	0.00
12,700.00	89.92	359.70	11,921.45	384.66	117.95	385.41	0.00	0.00	0.00
12,800.00	89.92	359.70	11,921.60	484.66	117.42	485.40	0.00	0.00	0.00
12,900.00	89.92	359.70	11,921.74	584.66	116.89	585.39	0.00	0.00	0.00
13,000.00	89.92	359.70	11,921.88	684.66	116.35	685.39	0.00	0.00	0.00
13,100.00	89.92	359.70	11,922.03	784.65	115.82	785.38	0.00	0.00	0.00
13,200.00	89.92	359.70	11,922.17	884.65	115.29	885.37	0.00	0.00	0.00
13,300.00	89.92	359.70	11,922.32	984.65	114.76	985.37	0.00	0.00	0.00
13,400.00	89.92	359.70	11,922.46	1,084.65	114.23	1,085.36	0.00	0.00	0.00
13,500.00	89.92	359.70	11,922.60	1,184.65	113.70	1,185.35	0.00	0.00	0.00
13,600.00	89.92	359.70	11,922.75	1,284.65	113.16	1,285.35	0.00	0.00	0.00
13,700.00	89.92	359.70	11,922.89	1,384.65	112.63	1,385.34	0.00	0.00	0.00
13,800.00	89.92	359.70	11,923.03	1,484.64	112.10	1,485.33	0.00	0.00	0.00
13,900.00	89.92	359.70	11,923.18	1,584.64	111.57	1,585.32	0.00	0.00	0.00
14,000.00	89.92	359.70	11,923.32	1,684.64	111.04	1,685.32	0.00	0.00	0.00
14,100.00	89.92	359.70	11,923.47	1,784.64	110.51	1,785.31	0.00	0.00	0.00
14,200.00	89.92	359.70	11,923.61	1,884.64	109.97	1,885.30	0.00	0.00	0.00
14,300.00	89.92	359.70	11,923.75	1,984.64	109.44	1,985.30	0.00	0.00	0.00
14,400.00	89.92	359.70	11,923.90	2,084.63	108.91	2,085.29	0.00	0.00	0.00
14,500.00	89.92	359.70	11,924.04	2,184.63	108.38	2,185.28	0.00	0.00	0.00
14,600.00	89.92	359.70	11,924.18	2,284.63	107.85	2,285.28	0.00	0.00	0.00
14,700.00	89.92	359.70	11,924.33	2,384.63	107.32	2,385.27	0.00	0.00	0.00
14,800.00	89.92	359.70	11,924.47	2,484.63	106.79	2,485.26	0.00	0.00	0.00
14,900.00	89.92	359.70	11,924.61	2,584.63	106.25	2,585.26	0.00	0.00	0.00
15,000.00	89.92	359.70	11,924.76	2,684.63	105.72	2,685.25	0.00	0.00	0.00
15,100.00	89.92	359.70	11,924.90	2,784.62	105.19	2,785.24	0.00	0.00	0.00
15,200.00	89.92	359.70	11,925.05	2,884.62	104.66	2,885.23	0.00	0.00	0.00
15,300.00	89.92	359.70	11,925.19	2,984.62	104.13	2,985.23	0.00	0.00	0.00
15,400.00	89.92	359.70	11,925.33	3,084.62	103.60	3,085.22	0.00	0.00	0.00
15,500.00	89.92	359.70	11,925.48	3,184.62	103.06	3,185.21	0.00	0.00	0.00
15,600.00	89.92	359.70	11,925.62	3,284.62	102.53	3,285.21	0.00	0.00	0.00
15,700.00	89.92	359.70	11,925.76	3,384.61	102.00	3,385.20	0.00	0.00	0.00
15,800.00	89.92	359.70	11,925.91	3,484.61	101.47	3,485.19	0.00	0.00	0.00
15,900.00	89.92	359.70	11,926.05	3,584.61	100.94	3,585.19	0.00	0.00	0.00
16,000.00	89.92	359.70	11,926.19	3,684.61	100.41	3,685.18	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Top Spot 12_13 Federal Com 313H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3605.60ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3605.60ft
Site:	Top Spot 12_13 Fed Com	**North Reference:**	Grid
Well:	Top Spot 12_13 Federal Com 313H	**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	89.92	359.70	11,926.34	3,784.61	99.87	3,785.17	0.00	0.00	0.00
16,200.00	89.92	359.70	11,926.48	3,884.61	99.34	3,885.16	0.00	0.00	0.00
16,300.00	89.92	359.70	11,926.63	3,984.61	98.81	3,985.16	0.00	0.00	0.00
16,400.00	89.92	359.70	11,926.77	4,084.60	98.28	4,085.15	0.00	0.00	0.00
16,500.00	89.92	359.70	11,926.91	4,184.60	97.75	4,185.14	0.00	0.00	0.00
16,600.00	89.92	359.70	11,927.06	4,284.60	97.22	4,285.14	0.00	0.00	0.00
16,700.00	89.92	359.70	11,927.20	4,384.60	96.69	4,385.13	0.00	0.00	0.00
16,800.00	89.92	359.70	11,927.34	4,484.60	96.15	4,485.12	0.00	0.00	0.00
16,900.00	89.92	359.70	11,927.49	4,584.60	95.62	4,585.12	0.00	0.00	0.00
17,000.00	89.92	359.70	11,927.63	4,684.60	95.09	4,685.11	0.00	0.00	0.00
17,100.00	89.92	359.70	11,927.77	4,784.59	94.56	4,785.10	0.00	0.00	0.00
17,200.00	89.92	359.70	11,927.92	4,884.59	94.03	4,885.09	0.00	0.00	0.00
17,300.00	89.92	359.70	11,928.06	4,984.59	93.50	4,985.09	0.00	0.00	0.00
17,400.00	89.92	359.70	11,928.21	5,084.59	92.96	5,085.08	0.00	0.00	0.00
17,500.00	89.92	359.70	11,928.35	5,184.59	92.43	5,185.07	0.00	0.00	0.00
17,600.00	89.92	359.70	11,928.49	5,284.59	91.90	5,285.07	0.00	0.00	0.00
17,700.00	89.92	359.70	11,928.64	5,384.58	91.37	5,385.06	0.00	0.00	0.00
17,800.00	89.92	359.70	11,928.78	5,484.58	90.84	5,485.05	0.00	0.00	0.00
17,900.00	89.92	359.70	11,928.92	5,584.58	90.31	5,585.05	0.00	0.00	0.00
18,000.00	89.92	359.70	11,929.07	5,684.58	89.77	5,685.04	0.00	0.00	0.00
18,100.00	89.92	359.70	11,929.21	5,784.58	89.24	5,785.03	0.00	0.00	0.00
18,200.00	89.92	359.70	11,929.36	5,884.58	88.71	5,885.02	0.00	0.00	0.00
18,300.00	89.92	359.70	11,929.50	5,984.58	88.18	5,985.02	0.00	0.00	0.00
18,400.00	89.92	359.70	11,929.64	6,084.57	87.65	6,085.01	0.00	0.00	0.00
18,500.00	89.92	359.70	11,929.79	6,184.57	87.12	6,185.00	0.00	0.00	0.00
18,600.00	89.92	359.70	11,929.93	6,284.57	86.59	6,285.00	0.00	0.00	0.00
18,700.00	89.92	359.70	11,930.07	6,384.57	86.05	6,384.99	0.00	0.00	0.00
18,800.00	89.92	359.70	11,930.22	6,484.57	85.52	6,484.98	0.00	0.00	0.00
18,900.00	89.92	359.70	11,930.36	6,584.57	84.99	6,584.98	0.00	0.00	0.00
19,000.00	89.92	359.70	11,930.50	6,684.56	84.46	6,684.97	0.00	0.00	0.00
19,100.00	89.92	359.70	11,930.65	6,784.56	83.93	6,784.96	0.00	0.00	0.00
19,200.00	89.92	359.70	11,930.79	6,884.56	83.40	6,884.96	0.00	0.00	0.00
19,300.00	89.92	359.70	11,930.94	6,984.56	82.86	6,984.95	0.00	0.00	0.00
19,400.00	89.92	359.70	11,931.08	7,084.56	82.33	7,084.94	0.00	0.00	0.00
19,500.00	89.92	359.70	11,931.22	7,184.56	81.80	7,184.93	0.00	0.00	0.00
19,600.00	89.92	359.70	11,931.37	7,284.56	81.27	7,284.93	0.00	0.00	0.00
19,700.00	89.92	359.70	11,931.51	7,384.55	80.74	7,384.92	0.00	0.00	0.00
19,800.00	89.92	359.70	11,931.65	7,484.55	80.21	7,484.91	0.00	0.00	0.00
19,900.00	89.92	359.70	11,931.80	7,584.55	79.67	7,584.91	0.00	0.00	0.00
20,000.00	89.92	359.70	11,931.94	7,684.55	79.14	7,684.90	0.00	0.00	0.00
20,100.00	89.92	359.70	11,932.08	7,784.55	78.61	7,784.89	0.00	0.00	0.00
20,200.00	89.92	359.70	11,932.23	7,884.55	78.08	7,884.89	0.00	0.00	0.00
20,300.00	89.92	359.70	11,932.37	7,984.55	77.55	7,984.88	0.00	0.00	0.00
20,400.00	89.92	359.70	11,932.52	8,084.54	77.02	8,084.87	0.00	0.00	0.00
20,500.00	89.92	359.70	11,932.66	8,184.54	76.49	8,184.86	0.00	0.00	0.00
20,600.00	89.92	359.70	11,932.80	8,284.54	75.95	8,284.86	0.00	0.00	0.00
20,700.00	89.92	359.70	11,932.95	8,384.54	75.42	8,384.85	0.00	0.00	0.00
20,800.00	89.92	359.70	11,933.09	8,484.54	74.89	8,484.84	0.00	0.00	0.00
20,900.00	89.92	359.70	11,933.23	8,584.54	74.36	8,584.84	0.00	0.00	0.00
21,000.00	89.92	359.70	11,933.38	8,684.53	73.83	8,684.83	0.00	0.00	0.00
21,100.00	89.92	359.70	11,933.52	8,784.53	73.30	8,784.82	0.00	0.00	0.00
21,200.00	89.92	359.70	11,933.67	8,884.53	72.76	8,884.82	0.00	0.00	0.00
21,300.00	89.92	359.70	11,933.81	8,984.53	72.23	8,984.81	0.00	0.00	0.00
21,400.00	89.92	359.70	11,933.95	9,084.53	71.70	9,084.80	0.00	0.00	0.00
21,500.00	89.92	359.70	11,934.10	9,184.53	71.17	9,184.79	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Top Spot 12_13 Federal Com 313H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3605.60ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3605.60ft
Site:	Top Spot 12_13 Fed Com	**North Reference:**	Grid
Well:	Top Spot 12_13 Federal Com 313H	**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)
21,600.00	89.92	359.70	11,934.24	9,284.53	70.64	9,284.79	0.00	0.00	0.00
21,700.00	89.92	359.70	11,934.38	9,384.52	70.11	9,384.78	0.00	0.00	0.00
21,800.00	89.92	359.70	11,934.53	9,484.52	69.57	9,484.77	0.00	0.00	0.00
21,900.00	89.92	359.70	11,934.67	9,584.52	69.04	9,584.77	0.00	0.00	0.00
22,000.00	89.92	359.70	11,934.81	9,684.52	68.51	9,684.76	0.00	0.00	0.00
22,100.00	89.92	359.70	11,934.96	9,784.52	67.98	9,784.75	0.00	0.00	0.00
22,200.00	89.92	359.70	11,935.10	9,884.52	67.45	9,884.75	0.00	0.00	0.00
22,300.00	89.92	359.70	11,935.25	9,984.51	66.92	9,984.74	0.00	0.00	0.00
22,400.00	89.92	359.70	11,935.39	10,084.51	66.39	10,084.73	0.00	0.00	0.00
22,500.00	89.92	359.70	11,935.53	10,184.51	65.85	10,184.72	0.00	0.00	0.00
22,547.03	89.92	359.70	11,935.60	10,231.54	65.60	10,231.75	0.00	0.00	0.00

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 (Top Spot 12_13	0.00	0.01	11,920.60	-209.41	121.11	504,151.40	728,567.40	32.384522	-103.726803
- plan misses target center by 31.10ft at 12110.52ft MD (11890.54 TVD, -201.50 N, 120.17 E)									
- Point									
PBHL (Top Spot	0.00	0.00	11,935.60	10,231.54	65.60	514,591.80	728,511.90	32.413220	-103.726791
- plan hits target center									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
829.60	829.60	RUSTLER			
1,127.60	1,127.60	SALADO			
2,862.60	2,862.60	CASTILE			
4,498.60	4,498.60	DELAWARE			
4,567.60	4,567.60	BELL CANYON			
5,411.60	5,411.60	CHERRY CANYON			
6,647.60	6,647.60	BRUSHY CANYON			
8,404.82	8,399.60	BONE SPRING			
9,533.96	9,511.60	BONE SPRING 1ST			
10,156.40	10,124.60	BONE SPRING 2ND			
11,193.14	11,145.60	BONE SPRING 3RD			
11,716.61	11,650.60	WOLFCAMP			

OXY

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Top Spot 12_13 Federal Com 313H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3605.60ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3605.60ft
Site:	Top Spot 12_13 Fed Com	**North Reference:**	Grid
Well:	Top Spot 12_13 Federal Com 313H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
7,395.00	7,395.00	0.00	0.00	Build 1°/100'
8,394.55	8,389.48	-85.63	15.17	Hold 10° Tangent
11,299.35	11,250.20	-582.09	103.12	KOP, Build & Turn 10°/100'
12,297.03	11,920.87	-18.30	120.09	Landing Point
22,547.03	11,935.60	10,231.54	65.60	TD at 22547.03' MD

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Top Spot 12_13 Fed Com
Well: Top Spot 12_13 Federal Com 313H
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: Top Spot 12_13 Federal Com 313H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	504360.80	728446.30	32.385099	-103.727191

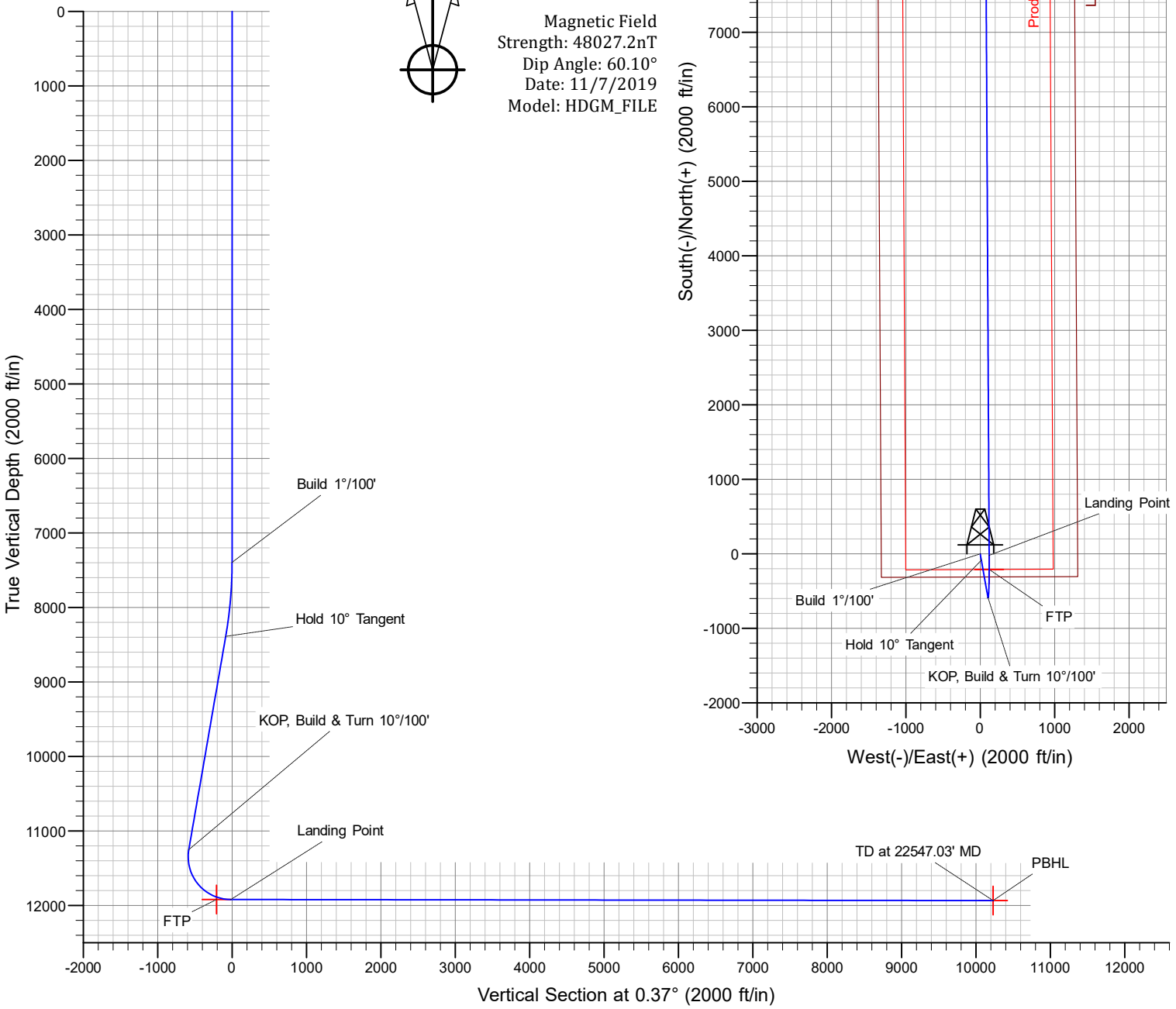
3580.60

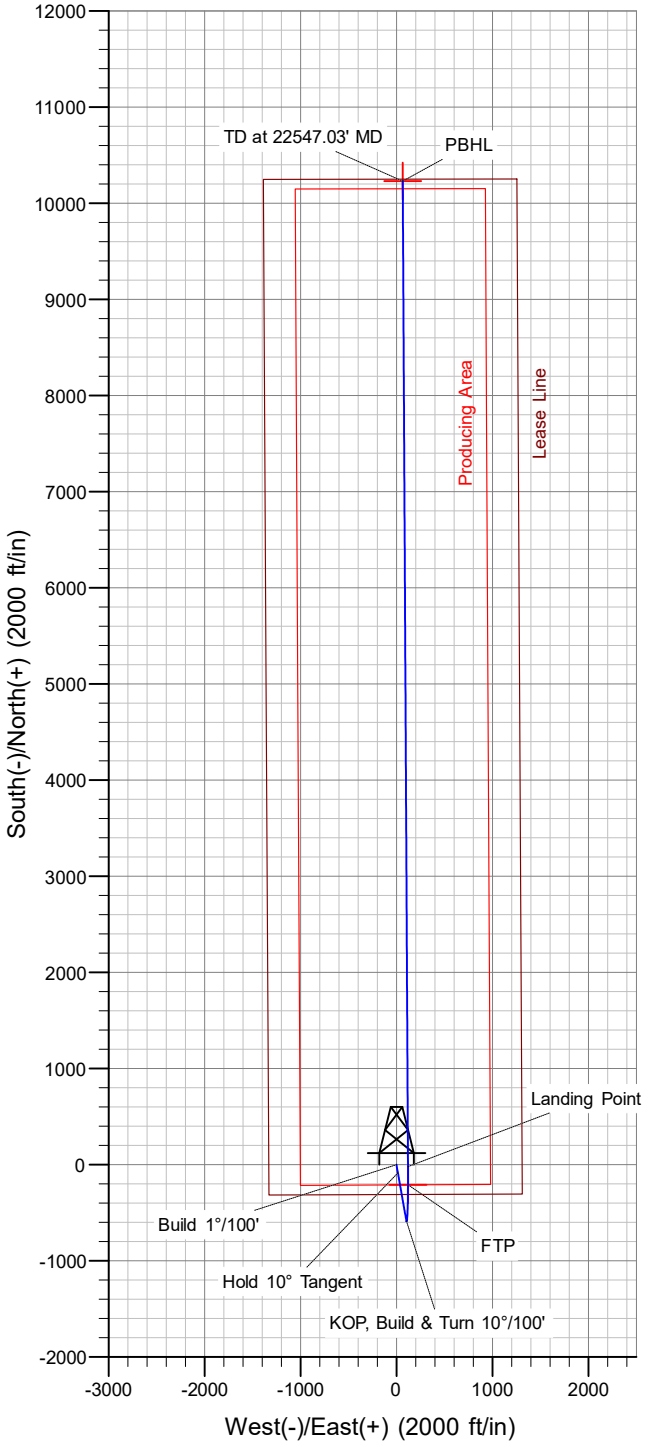
SECTION DETAILS

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	
7395.00	0.00	0.00	7395.00	0.00	0.00	0.00	0.00	0.00	Build 1°/100'
8394.55	10.00	169.95	8389.48	-85.63	15.17	1.00	169.95	-85.53	Hold 10° Tangent
11299.35	10.00	169.95	11250.20	-582.09	103.12	0.00	0.00	-581.42	KOP, Build & Turn 10°/100'
12297.03	89.92	359.70	11920.87	-18.30	120.09	10.00	-170.11	-17.53	Landing Point
22547.03	89.92	359.70	11935.60	10231.54	65.60	0.00	0.00	10231.75	TD at 22547.03' MD

Azimuths to Grid North
True North: -0.32°
Magnetic North: 6.43°

Magnetic Field
Strength: 48027.2nT
Dip Angle: 60.10°
Date: 11/7/2019
Model: HDGM_FILE





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%	**Type**	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

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

All previous COAs still apply. Potash boundary reviewed and revised

TOP SPOT 12 13 FED COM	312H	313H	34H	35H
USWN	3001547626	3001547625	3001547949	3001547887
LEASE NUMBER	NMNM29233	NMNM29233	NMNM29233	NMNM29233
NEW BHL	20'/N 2580'/W	20'/N 1190'/E	20'/N 1940'/E	20'/N 440'/E

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	[x] Fluid Filled	[x] Cement Squeeze	[ ] Pilot Hole
Special Requirements	[ ] Water Disposal	[x] COM	[ ] Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be AT SPUD. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Alternate Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **891** 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

24 hours in the Potash Area 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 fluid filled to meet BLM minimum collapse requirement.

2. The **7-5/8** inch intermediate casing shall be set at approximately **11,199** feet. The minimum required fill of cement behind the **7-5/8** 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 Secretary Potash 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 7-5/8" X 10-3/4" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

3. The **5-1/2** inch production casing shall be set at approximately **22,547** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **500 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 **500 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (3.5M) psi.**

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

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.
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.

OFFLINE CEMENTING AND BREAK TESTING IS APPROVED FOR THE SURFACE AND INTERMEDIATE SECTIONS.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☒ Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator

can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
    e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

KPI – 11-23-2022

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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

COMMENTS

Action 164863

COMMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 164863
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	Defining well	12/12/2022

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CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	12/12/2022