

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

Sundry Print Reports

Well Name: CORRAL GORGE 12-13 Well

FEDERAL COM

Well Location: T25S / R29E / SEC 12 /

NENE / 32.151042 / -103.931052

County or Parish/State: EDDY /

NM

Well Number: 74H Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM15303

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001547204

Well Status: Unapproved Application for

Permit to Drill

Operator: OXY USA INCORPORATED

Notice of Intent

Sundry ID: 2765136

Type of Submission: Notice of Intent

Date Sundry Submitted: 12/08/2023

Type of Action. AF

Type of Action: APD Change

Time Sundry Submitted: 08:05

Date proposed operation will begin: 08/18/2024

Procedure Description: PLEASE SEE ATTACHED OXY APD CHANGE SUNDRY LIST THAT HIGHLIGHTS CHANGES AND ATTACHMENTS. GENERAL CHANGE DOCUMENTS ARE COMBINED INTO 1 PDF FILE AND WELL SPECIFIC DOCUMENTS ARE INDIVIDUAL ATTACHMENTS. SHL moving by 1' to the north 95' to the east and there is no additional surface disturbance related to this sundry.

NOI Attachments

Procedure Description

OXY_APD_CHANGE_SUNDRY_LIST_20231211074158.pdf

GENERAL_ATTACHEMENTS_20231208080518.pdf

I10820WEL00NM_CORRAL_GORGE_12_13_FED_COM_74H_SITE_PLAN_20231208080518.pdf

CorralGorge12_13FedCom74H_TNSWedge461_5.500in_20.00ppf_P110CY_20231208080459.pdf

CorralGorge12_13FedCom74H_DirectPlan_20231208080500.pdf

CorralGorge12_13FedCom74H_DrillPlan_20231208080501.pdf

I10820WEL00NM_CORRAL_GORGE_12_13_FED_COM_74H_C_102_20231208080504.pdf

 $CorralGorge 12_13 Fed Com 74 H_TNS Wedge 463_7.827 in_39.30 ppf_P110 S_20231208080459. pdf$

Page 1 of 2

eived by OCD: 3/7/2024 6:42:28 AM Well Name: CORRAL GORGE 12-13

FEDERAL COM

Well Location: T25S / R29E / SEC 12 /

NENE / 32.151042 / -103.931052

County or Parish/State: EDDY? of

Well Number: 74H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM15303

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001547204

Well Status: Unapproved Application for Permit to Drill

Operator: OXY USA INCORPORATED

Conditions of Approval

Additional

FALCON DESIGN CORRAL GORGE 12 13 FED COM 74H SUNDRY COA 20240302111906.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: LESLIE REEVES Signed on: FEB 27, 2024 08:19 AM

Name: OXY USA INCORPORATED

Title: Advisor Regulatory

Street Address: 5 GREENWAY PLAZA, SUITE 110

City: HOUSTON State: TX

Phone: (713) 497-2492

Email address: LESLIE_REEVES@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: Chris Walls

BLM POC Title: ENGINEER

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition Date: 03/04/2024

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM	APPROVED
OMB N	o. 1004-0137
Expires: O	ctober 31, 2021

BUREAU OF LAND MANAGEMENT 5		5. Lease Serial No.	5. Lease Serial No.	
Do not use this t	IOTICES AND REPORTS ON Vorm for proposals to drill or to Use Form 3160-3 (APD) for su	o re-enter an	6. If Indian, Allottee	or Tribe Name
SUBMIT IN	TRIPLICATE - Other instructions on pag	ne 2	7. If Unit of CA/Agr	reement, Name and/or No.
1. Type of Well	<u> </u>			
Oil Well Gas W	Vell Other		8. Well Name and N	0.
2. Name of Operator			9. API Well No.	
3a. Address	3b. Phone No.	(include area code)	10. Field and Pool of	r Exploratory Area
4. Location of Well (Footage, Sec., T., K	2.,M., or Survey Description)		11. Country or Parish	h, State
12. CHE	CK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE O	F NOTICE, REPORT OR OT	THER DATA
TYPE OF SUBMISSION		TYPE	OF ACTION	
	Acidize Deep		Production (Start/Resume) Water Shut-Off
Notice of Intent		raulic Fracturing	Reclamation	Well Integrity
		Construction	Recomplete	Other
Subsequent Report		and Abandon	Temporarily Abandon	
Final Abandonment Notice		Back	Water Disposal	
is ready for final inspection.)	tices must be filed only after all requirement			•
14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)		Trial and the state of the stat		
		Title		
Signature		Date		
	THE SPACE FOR FED	ERAL OR STAT	E OFICE USE	
Approved by				
		Title		Date
	hed. Approval of this notice does not warrar equitable title to those rights in the subject le duct operations thereon.			
Title 18 U.S.C. Section 1001 and Title 4	3 IJ S C Section 1212 make it a crime for a	ny nerson knowingly	and willfully to make to any	denartment or agency of the United States

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 State any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: NENE / 360 FNL / 500 FEL / TWSP: 25S / RANGE: 29E / SECTION: 12 / LAT: 32.151042 / LONG: -103.931052 (TVD: 0 feet, MD: 0 feet) PPP: NWNE / 1 FNL / 1696 FEL / TWSP: 25S / RANGE: 29E / SECTION: 13 / LAT: 32.137414 / LONG: -103.934905 (TVD: 9538 feet, MD: 15232 feet) PPP: NWNE / 100 FNL / 1700 FEL / TWSP: 25S / RANGE: 29E / SECTION: 12 / LAT: 32.151736 / LONG: -103.93493 (TVD: 9552 feet, MD: 10064 feet) BHL: SWSE / 20 FSL / 1700 FEL / TWSP: 25S / RANGE: 29E / SECTION: 13 / LAT: 32.122851 / LONG: -103.93488 (TVD: 9524 feet, MD: 20573 feet)

OXY APD CHANGE SUNDRY LIST

DATE	12/7/2023
WELL NAME	CORRAL GORGE 12_13 FED COM 74H
API NUMBER	30-015-47204
SPUD DATE	8/18/2024

ITEM	PREVIOUS	UPDATE	
NAME	NA		
NSL	NA		
SHL	360 FNL, 500 FEL	359 FNL, 405 FEL	
PAD	NA		
BHL	20 FSL, 330 FEL	20 FSL, 334 FEL	
HSU SIZE, ACRES	640	320	
POOL	NA		
TARGET FORMATION	NA		
TVD	NA		
SURFACE CASING	40.5#	45.5#	
INTERMEDIATE CASING	7.625" 26.4# L-80 HC, BTC	7.875" 39.3# P110S, WEDGE 463	
INTERMEDIATE 2 CASING	NA		
PRODUCTION CASING	CASING TO SURFACE, DQX	PRODUCTION LINER 8661' MD TO TD, WEDGE 461	
LINER OR TIE BACK	NA	NEW	
CEMENT	NA		
FACILITIES	NA		
OTHER	NA		

OTHER COMMENTS

THE SHL, BHL, HSU, SURF CSG, INT CSG, AND PRODUCTION CSG ARE CHANGING. A PRODUCTION LINER WILL REPLACE THE PRODUCTION CASING STRING.

ATTACHEMENTS

The C-102, SITE PLAN, DRILL PLAN, CASING CONNECTIONS, DIRECTIONAL PLAN AND A CONTINGENCY TIE BACK ARE ATTACHED. GENERAL ATTACHEMENTS SUCH AS THE UPDATED VARIANCE REQUESTS FOR BOP BREAK TESTING, BRADENHEAD CBL, AND OFFLINE CEMENT ARE ATTACHED.

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 43 CFR part 3170 Subpart 3172 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 43 CFR part 3170 Subpart 3172 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)

- o Internal:
 - For Drilling: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both 43 CFR part 3170 Subpart 3172 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.

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)

- 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)
- o 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.

Falcon SL1 Production Casing Annular Clearance Variance Request

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

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

Offline Cementing Variance Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

1. Cement Program

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

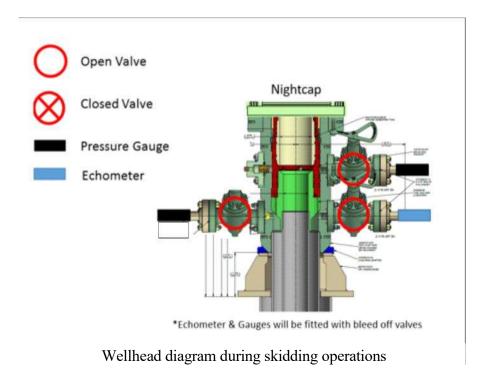
2. Offline Cementing Procedure

The operational sequence will be as follows:

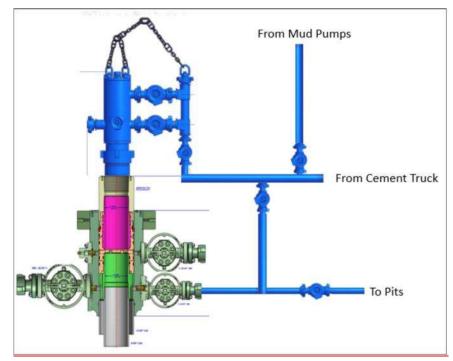
- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set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

Annular packoff with both external and internal seals





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



Wellhead diagram during offline cementing operations

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

OXY USA Inc APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: OXY USA Inc

1. SUMMARY OF REQUEST:

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

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

2. Description of Operations

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR part 3170 Subpart 3172, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and the WOC time has been reached.
- **3.** A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - **a.** A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- **6.** Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be 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.

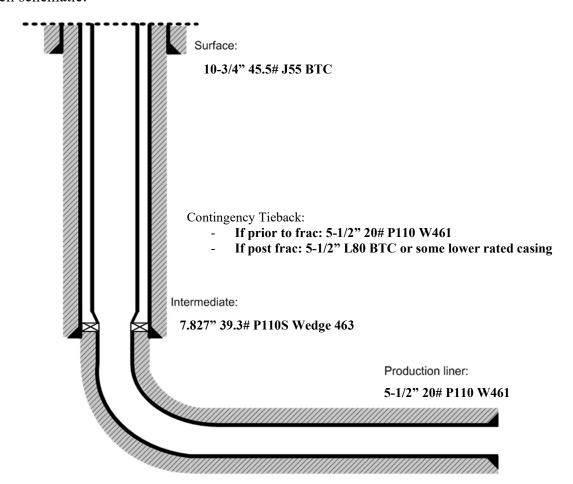
OXY USA WTP LP

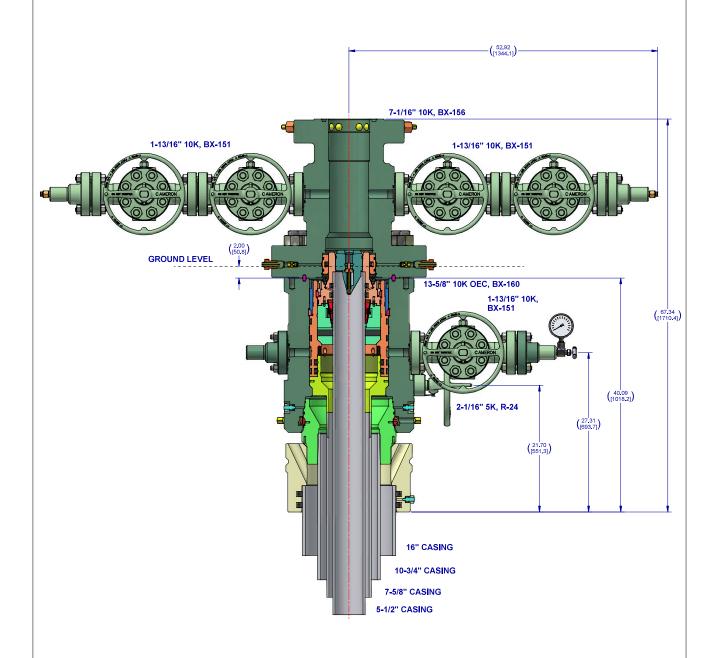
Falcon SL1 Contingnecy Tieback Details

Below is a summary that describes the general operational steps to drill and complete the well.

- Drill 14-3/4" hole x 10-3/4" casing for surface section. Cement to surface.
- Drill 9-7/8" hole x 7.827" casing for intermediate section. Cement to surface.
- Drill 6-3/4" hole x 5-1/2" liner for production section. Cement to top of liner, 100' inside 7.827" shoe.
- Release drilling rig from location.
- If contingency tieback required pre-frac:
 - Move in workover rig and run a 5-1/2" 20# P110 Wedge 461 tie-back frac string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
 - o Pump hydraulic fracture job.
 - o Flowback and produce well.
- If contingency tieback required post-frac:
 - o Move in workover rig and run a 5-1/2" L80 BTC or lesser rated tie-back string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
 - o Return well to production.

General well schematic:



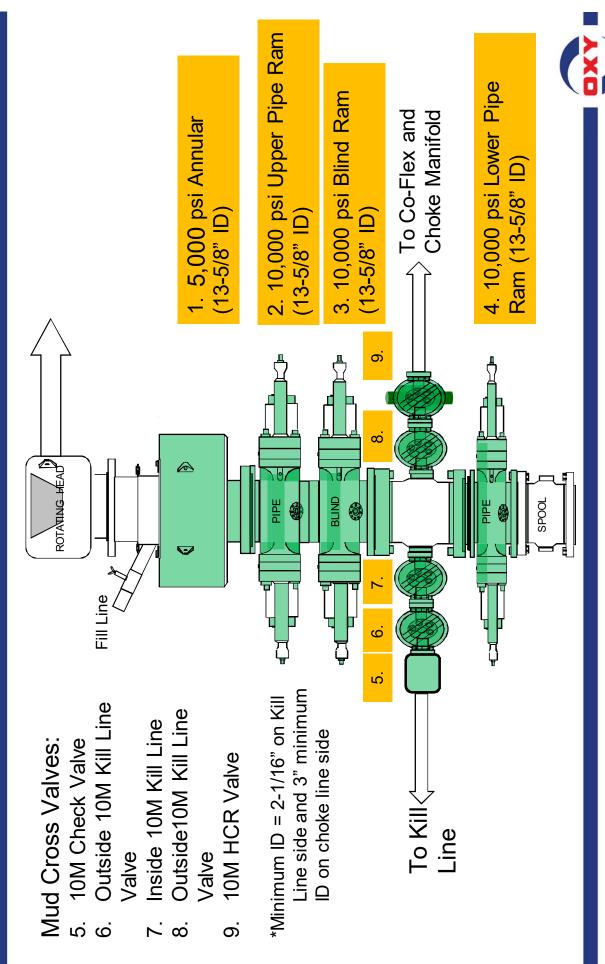


Notes:

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

		CONF	IDEN	ITIAL		
SURFACE TREATMENT	DO NOT SC		CAMERON		SURFACE	
	D. GOTTUNG	2 Dec 21	W	A Schlumberger Company	SYSTEMS	
MATERIAL & HEAT TREAT	CHECKED BY:	DATE	_			
	D, GOTTUNG	2 Dec 21		OXY 13-5/8" 10K AD/		
	APPROVED BY: D. GOTTUNG	2 Dec 21	16" X 10-3/4" X 7-5/8" X	(5-1/2"		
ESTIMATED 651 WEIGHT: 00	5.617 LBS INITIAL USE BM: 55.434 KG		SHEET 4 of 4	SD-053434-94-	05 REV.	

5/10M BOP Stack



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.
- When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper.

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

See supporting information below:

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

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

Background

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

Supporting Rationale

43 CFR part 3170 Subpart 3172 became effective on December 19, 1988, and has remained the standard for regulating BLM onshore drilling operations for almost 30 years. During this time there have been significant changes in drilling technology. **BLM** continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR part 3170 Subpart 3172 was originally released. The drilling rig fleet OXY utilizes in New Mexico was built with many modern upgrades. One of which allows the rigs to skid between wells on multi-well pads. A part of this rig package is a hydraulic winch system which safely installs and removes the BOP from the wellhead and carries it during skidding operations. This technology has made break testing a safe and reliable procldure.

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry. 43 CFR part 3170 Subpart 3172 recognized API Recommended Practices (RP) 53 in its original development. API Standard 53,

Blowout Prevention Equipment Systems for Drilling Wells (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the **BOP** stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."

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

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

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

Procedures

- 1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing (See Appendix for examples)
- 2) OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the 30-day BOP test window
- 3) After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP.
 - > Between the check valve and the kill line
 - ➤ Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - > Between the BOP flange and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by the hydraulic winch system
- 5) After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
- 6) The choke line and kill line are reconnected
- 7) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed
- 8) A shell teit is performed against the upper pipe rams testing all thlee breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10) These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the initial break test will be tested on this break test

Notes:

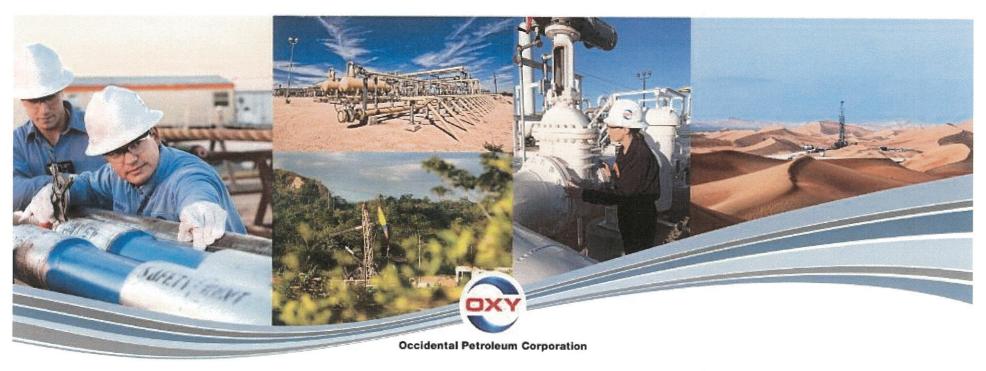
- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 10.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step 8 above, no further testing of the manifold is done until the next full BOP test.

Summary

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

REQUEST FOR A VARIANCE TO BREAK TEST THE BOP

Permian Resources New Mexico



Request for Variance

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads

- This practice entails retesting only the connections of the BOP stack that have been disconnected during this operation and not a complete BOP test.
- As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested, no further testing of the manifold is done until the next full BOP test.
- This request is being made as per Section IV of the Onshore Oil and Gas Order (OOGO) No. 2

Rationale for Allowing BOP Break Testing

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry

- (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break API Standard 53, Blowout Prevention Equipment Systems for Drilling Wells testing as an acceptable practice.
- Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the BOP stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."



Rationale for Allowing BOP Break Testing

Interior, has also utilized the API standards, specifications and best practices in the The Bureau of Safety and Environmental Enforcement (BSEE), Department of development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

- BSEE issued new offshore regulations in July 2016 under 30 CFR Part 250, Oil Preventer Systems and Well Control. Within these regulations is language and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout adopted from API Standard 53 which also supports break testing.
- components following the disconnection or repair of any well-pressure Specifically, Section 250.737(d.8) states "Pressure test affected BOP containment seal in the wellhead or BOP stack assembly."



Rationale for Allowing BOP Break Testing

Break testing has been approved by the BLM in the past

- The Farmington Field Office approved a Sundry Notice (SN) to allow break testing
- This SN granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads

Oxy feels break testing and our current procedures meet or exceed the intent of OOGO

- BOP shell and components such as the pipe rams and check valve get tested to As skidding operations take place within the 30-day full BOPE test window, the the full rated working pressure more often
- Oxy's standard requires complete BOP tests more often than that of OOGO No. 2
- training is a vital part of well control, this procedure to simulate step one of the - Oxy performs a choke drill prior to drilling out every casing shoe. As a crew's Driller's Method exceeds the requirements of OOGO No. 2



Break Testing Procedures

- 1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing
- OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the full BOP test window 5
- After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP. 3
 - Between the check valve and the kill line
- Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - Between the BOP flange and the wellhead
- The BOP is then lifted and removed from the wellhead by the hydraulic winch system 4
- After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed 2
- 6) The choke line and kill line are reconnected
- 7) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed

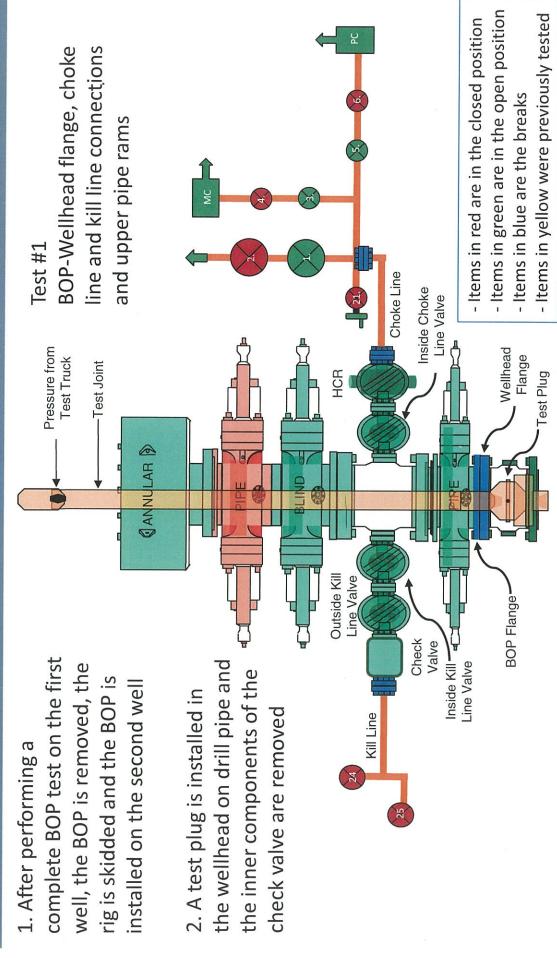


Break Testing Procedures

- 8) A shell test is performed against the upper pipe rams testing all three breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10)These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- 11) Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the first break test will be tested

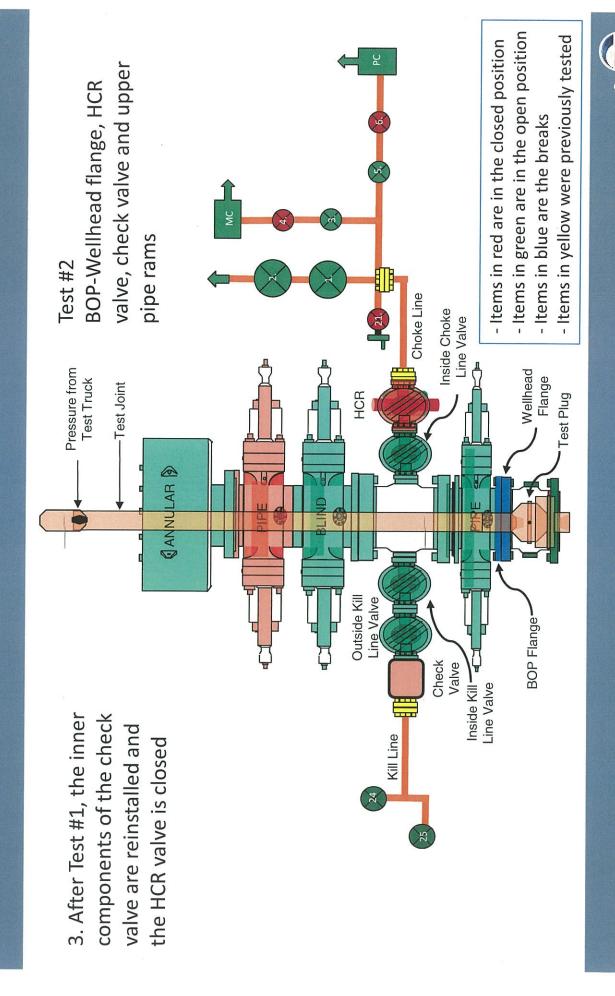


Break Testing Procedures and Tests

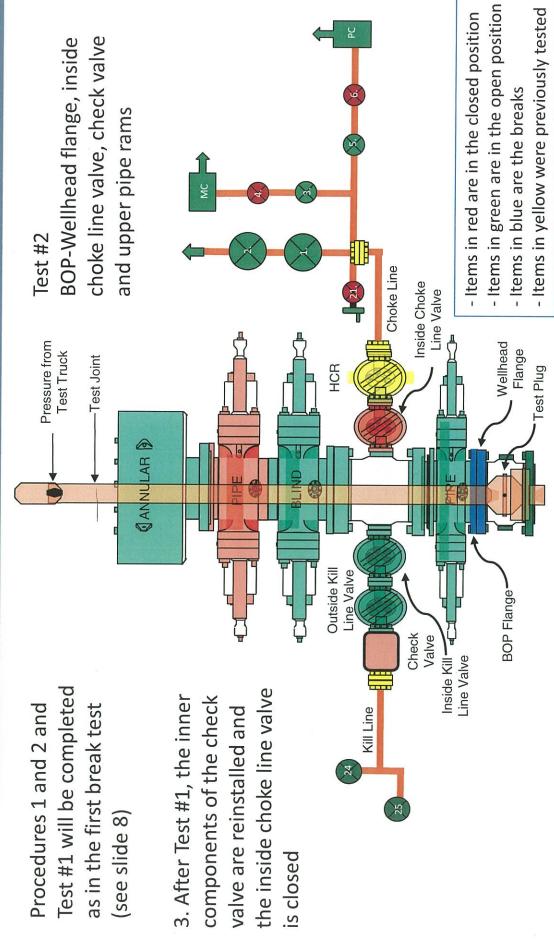




Break Testing Procedures and Tests



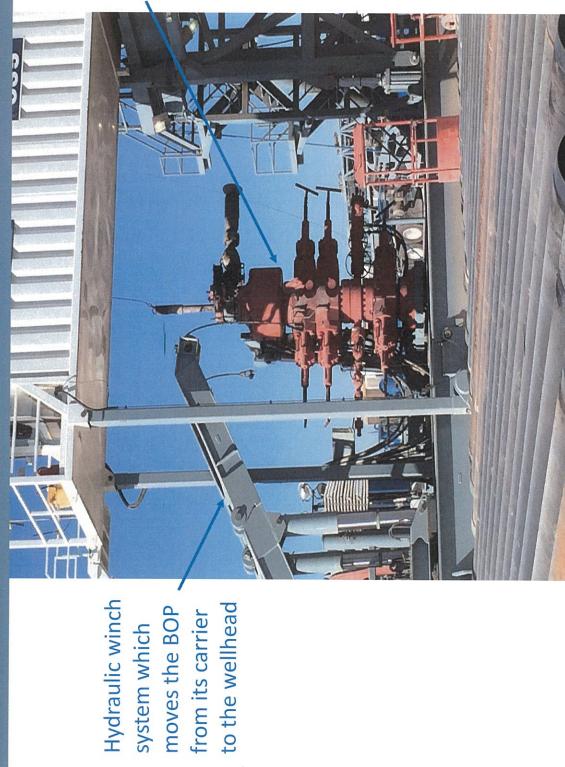
Second Break Testing Procedures and Tests



()

BOP standing in its carrier

system which



Released to Imaging: 3/12/2024 3:21:19 PM

BOP Handling System

12

BOP Handling System

Wellhead



Released to Imaging: 3/12/2024 3:21:19 PM

system moving the BOP over to the wellhead

Hydraulic winch

Summary for Variance Request for Break Testing

- API standards, specifications and recommended practices are considered industry standards
- OOGO No. 2 recognized API Recommended Practices (RP) 53 in its original development
- API Standard 53 recognizes break testing as an acceptable practice
- standards, specifications and best practices in the development of its offshore The Bureau of Safety and Environmental Enforcement has utilized API oil and gas regulations
- API Standard 53 recognizes break testing as an acceptable practice
- OXY feels break testing meets the intent of OOGO No. 2 to protect public health and safety and the environment



Bradenhead Cement CBL Variance Request

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

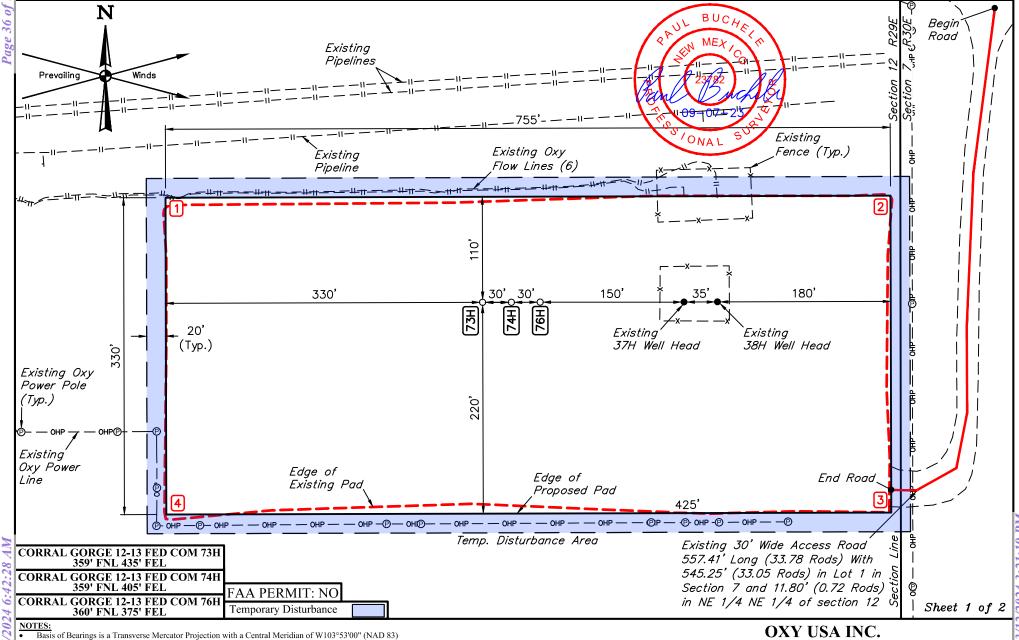
Three string wells:

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

Four string wells:

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





Corner Coordinates Shown are Based on Existing Pad Corners.

UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

CEDCAN 25S29E 1208 NE 1/4 NE 1/4, SECTION 12, T25S, R29E, N.M.P.M. **EDDY COUNTY, NEW MEXICO**

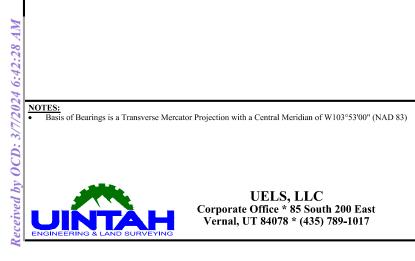
SURVEYED BY	C.T., K.H.	08-10-23	SCALE	
DRAWN BY	Z.L.	09-07-23	1" = 100'	
SITE PLAN				



73H - EL: 3157.2'	74H - EL: 3157.3'	76H - EL: 3157.4'
NAD 83	NAD 83	NAD 83
LATITUDE = 32°09'03.76" (32.151045°)	LATITUDE = 32°09'03.76" (32.151045°)	LATITUDE = 32°09'03.76" (32.151045°)
LONGITUDE = -103°55'51.03" (-103.930842°	LONGITUDE = -103°55'50.68" (-103.930745°)	LONGITUDE = -103°55'50.33" (-103.930648°)
NAD 27	NAD 27	NAD 27
LATITUDE = 32°09'03.32" (32.150921°)	LATITUDE = 32°09'03.32" (32.150921°)	LATITUDE = 32°09'03.32" (32.150922°)
LONGITUDE = -103°55'49.29" (-103.930357°)	LONGITUDE = -103°55'48.94" (-103.930260°)	LONGITUDE = -103°55'48.59" (-103.930163°)
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 418918.34' E: 665900.61'	N: 418918.55' E: 665930.60'	N: 418918.75' E: 665960.60'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 418859.96' E: 624715.93'	N: 418860.17' E: 624745.92'	N: 418860.37' E: 624775.91'
1 - EL: 3156.7'	2 - EL: 3159.8'	3 - EL: 3163.3'
NAD 83	NAD 83	NAD 83
LATITUDE = 32°09'04.75" (32.151319°)	LATITUDE = 32°09'04.87" (32.151352°)	LATITUDE = 32°09'01.60" (32.150445°)
LONGITUDE = -103°55'54.85" (-103.931904°	LONGITUDE = -103°55'46.10" (-103.929471°)	LONGITUDE = -103°55'46.10" (-103.929473°)
NAD 27	NAD 27	NAD 27
LATITUDE = 32°09'04.30" (32.151195°)	LATITUDE = 32°09'04.42" (32.151228°)	LATITUDE = 32°09'01.16" (32.150321°)
LONGITUDE = -103°55'53.11" (-103.931419°)	LONGITUDE = -103°55'44.35" (-103.928987°)	LONGITUDE = -103°55'44.36" (-103.928989°)
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 419016.84' E: 665571.58'	N: 419031.69' E: 666324.23'	N: 418701.53' E: 666324.97'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 418958.46' E: 624386.91'	N: 418973.31' E: 625139.55'	N: 418643.15' E: 625140.28'
4 - EL: 3156.1'	BEGIN ACCESS ROAD	END ACCESS ROAD - EL: 3161.6'
NAD 83	NAD 83	NAD 83
LATITUDE = 32°09'01.53" (32.150425°)	LATITUDE = 32°09'06.80" (32.151889°)	LATITUDE = 32°09'01.83" (32.150509°)
LONGITUDE = -103°55'54.87" (-103.931907°	LONGITUDE = -103°55'44.83" (-103.929119°)	LONGITUDE = -103°55'46.10" (-103.929473°)
NAD 27	NAD 27	NAD 27
LATITUDE = 32°09'01.08" (32.150301°)	LATITUDE = 32°09'06.35" (32.151765°)	LATITUDE = 32°09'01.39" (32.150385°)
LONGITUDE = -103°55'53.12" (-103.931423°	LONGITUDE = -103°55'43.08" (-103.928634°)	LONGITUDE = -103°55'44.36" (-103.928988°)
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 418691.42' E: 665571.69'	N: 419227.26' E: 666432.70'	N: 418725.05' E: 666325.03'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 418633.04' E: 624387.00'	N: 419168.88' E: 625248.02'	N: 418666.67' E: 625140.34'

Sheet 2 of 2





OXY USA INC.

CEDCAN_25S29E_1208 NE 1/4 NE 1/4, SECTION 12, T25S, R29E, N.M.P.M. **EDDY COUNTY, NEW MEXICO**

SURVEYED BY	C.T., K.H.	08-10-23	SCALE					
DRAWN BY	Z.L.	09-07-23	N/A					
SITE PLAN								

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 Torque	s
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

PRD NM DIRECTIONAL PLANS (NAD 1983) Corral Gorge 12_13 Corral Gorge 12_13 Fed Com 74H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

31 October, 2023

TVD Reference:

Planning Report

HOPSPP Database:

ENGINEERING DESIGNS Company:

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site:

Corral Gorge 12_13

Well:

Corral Gorge 12_13 Fed Com 74H

Wellbore: Design:

Map Zone:

Wellbore #1 Permitting Plan

MD Reference: North Reference: **Survey Calculation Method:**

Local Co-ordinate Reference:

Well Corral Gorge 12_13 Fed Com 74H

RKB = 24' @ 3181.30ft (Citadel 3) RKB = 24' @ 3181.30ft (Citadel 3)

Grid

Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: Geo Datum:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Using geodetic scale factor

Site Corral Gorge 12_13

Site Position: From:

Мар

Northing: Easting:

418,266.21 usft 662,457.18 usft

Latitude: Longitude:

32.149287 -103.941976

Position Uncertainty: 0.00 ft Slot Radius: 13.200 in

Well Corral Gorge 12_13 Fed Com 74H

Well Position +N/-S +E/-W

Position Uncertainty

0.00 ft 0.00 ft 2.00 ft Northing: Easting: Wellhead Elevation: 418.918.55 usf 665,930.60 usf ft

Latitude: Longitude: **Ground Level:**

32.151045 -103.930745

3,157.30 ft

Grid Convergence: 0.21°

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	10/31/2023	6.42	59.68	47,407.40000000

Design Permitting Plan

Audit Notes:

Version: Vertical Section:

Phase: Depth From (TVD)

(ft)

0.00

PROTOTYPE +N/-S (ft)

0.00

Tie On Depth: +E/-W (ft)

0.00

0.00 Direction

(°) 179.30

Plan Survey Tool Program Date 10/31/2023

Depth From Depth To

0.00

(ft) (ft)

Survey (Wellbore) 20,473.02 Permitting Plan (Wellbore #1) **Tool Name**

Remarks

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	
3,945.00	0.00	0.00	3,945.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,445.21	10.00	4.01	4,442.68	43.45	3.05	2.00	2.00	0.00	4.01	
8,961.36	10.00	4.01	8,890.15	826.09	57.89	0.00	0.00	0.00	0.00	
9,962.86	90.17	179.70	9,562.30	260.10	69.77	10.00	8.00	17.54	175.62	FTP (Corral Gorge
20,473.02	90.17	179.70	9,530.30	-10,249.87	124.41	0.00	0.00	0.00	0.00	PBHL (Corral Gorge

Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Gorge 12_13

Well: Corral Gorge 12_13 Fed Com 74H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Corral Gorge 12_13 Fed Com 74H

RKB = 24' @ 3181.30ft (Citadel 3) RKB = 24' @ 3181.30ft (Citadel 3)

Grid

anned 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
						0.00			0.00
3,800.00	0.00	0.00	3,800.00	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
3,945.00	0.00	0.00	3,945.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	1.10	4.01	4,000.00	0.53	0.04	-0.53	2.00	2.00	0.00
4,100.00	3.10	4.01	4,099.92	4.18	0.29	-4.18	2.00	2.00	0.00
4,200.00	5.10	4.01	4,199.66	11.31	0.79	-11.30	2.00	2.00	0.00
4,300.00	7.10	4.01	4,299.09	21.91	1.54	-21.89	2.00	2.00	0.00
4,400.00	9.10	4.01	4,398.09	35.97	2.52	-35.94	2.00	2.00	0.00
4,445.21	10.00	4.01	4,442.68	43.45	3.05	-43.41	2.00	2.00	0.00
4,500.00	10.00	4.01	4,496.63	52.95	3.71	-52.90	0.00	0.00	0.00
4,600.00	10.00	4.01	4,595.11	70.28	4.92	-70.21	0.00	0.00	0.00
4,700.00	10.00	4.01	4,693.59	87.61	6.14	-87.53	0.00	0.00	0.00
4,800.00	10.00	4.01	4,792.07	104.94	7.35	-104.84	0.00	0.00	0.00
4,900.00	10.00	4.01	4,890.55	122.27	8.57	-122.15	0.00	0.00	0.00
5,000.00	10.00	4.01	4,989.03	139.60	9.78	-139.47	0.00	0.00	0.00
5,100.00	10.00	4.01	5,087.51	156.93	11.00	-156.78	0.00	0.00	0.00
5,200.00	10.00	4.01	5,185.99	174.25	12.21	-174.09	0.00	0.00	0.00

Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Gorge 12_13

Well: Corral Gorge 12_13 Fed Com 74H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Corral Gorge 12_13 Fed Com 74H

RKB = 24' @ 3181.30ft (Citadel 3) RKB = 24' @ 3181.30ft (Citadel 3)

Grid

esign:	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)
5,300.00	10.00	4.01	5,284.47	191.58	13.43	-191.41	0.00	0.00	0.00
5,400.00	10.00	4.01	5,382.94	208.91	14.64	-208.72	0.00	0.00	0.00
5,500.00	10.00	4.01	5,481.42	226.24	15.85	-226.03	0.00	0.00	0.00
5,600.00	10.00	4.01	5,579.90	243.57	17.07	-243.35	0.00	0.00	0.00
5,700.00	10.00	4.01	5,678.38	260.90	18.28	-260.66	0.00	0.00	0.00
5,800.00	10.00	4.01	5,776.86	278.23	19.50	-277.98	0.00	0.00	0.00
5,900.00	10.00	4.01	5,875.34	295.56	20.71	-295.29	0.00	0.00	0.00
6,000.00	10.00	4.01	5,973.82	312.89	21.93	-312.60	0.00	0.00	0.00
6,100.00	10.00	4.01	6,072.30	330.22	23.14	-329.92	0.00	0.00	0.00
6,200.00	10.00	4.01	6,170.78	347.55	24.36	-347.23	0.00	0.00	0.00
6,300.00	10.00	4.01	6,269.26	364.88	25.57	-364.54	0.00	0.00	0.00
6,400.00	10.00	4.01	6,367.74	382.21	26.78	-381.86	0.00	0.00	0.00
6,500.00	10.00	4.01	6,466.22	399.54	28.00	-399.17	0.00	0.00	0.00
6,600.00	10.00	4.01	6.564.70	399.54 416.87	29.21	-399.17 -416.48	0.00	0.00	0.00
6,700.00	10.00	4.01	6,663.18	434.20	30.43	-416.48 -433.80	0.00	0.00	0.00
6,800.00	10.00	4.01	6,761.66	451.53	31.64	-451.11	0.00	0.00	0.00
6,900.00	10.00	4.01	6,860.14	468.86	32.86	-468.43	0.00	0.00	0.00
7,000.00	10.00	4.01	6,958.62	486.19	34.07	-485.74	0.00	0.00	0.00
7,100.00	10.00	4.01	7,057.10	503.52	35.29	-503.05	0.00	0.00	0.00
7,200.00	10.00	4.01	7,155.58	520.85	36.50	-520.37	0.00	0.00	0.00
7,300.00	10.00	4.01	7,254.05	538.18	37.71	-537.68	0.00	0.00	0.00
7,400.00	10.00	4.01	7,352.53	555.51	38.93	-554.99	0.00	0.00	0.00
7,500.00	10.00	4.01	7,352.55 7,451.01	572.84	30.93 40.14	-554.99 -572.31	0.00	0.00	0.00
			,						
7,600.00	10.00	4.01	7,549.49	590.17	41.36	-589.62	0.00	0.00	0.00
7,700.00	10.00	4.01	7,647.97	607.50	42.57	-606.93	0.00	0.00	0.00
7,800.00	10.00	4.01	7,746.45	624.83	43.79	-624.25	0.00	0.00	0.00
7,900.00	10.00	4.01	7,844.93	642.16	45.00	-641.56	0.00	0.00	0.00
8,000.00	10.00	4.01	7,943.41	659.49	46.22	-658.88	0.00	0.00	0.00
8,100.00	10.00	4.01	8,041.89	676.81	47.43	-676.19	0.00	0.00	0.00
8,200.00	10.00	4.01	8,140.37	694.14	48.64	-693.50	0.00	0.00	0.00
								0.00	
8,300.00	10.00	4.01	8,238.85	711.47	49.86	-710.82	0.00		0.00
8,400.00	10.00	4.01	8,337.33	728.80	51.07	-728.13	0.00	0.00	0.00
8,500.00	10.00	4.01	8,435.81	746.13	52.29	-745.44	0.00	0.00	0.00
8,600.00	10.00	4.01	8,534.29	763.46	53.50	-762.76	0.00	0.00	0.00
8,700.00	10.00	4.01	8,632.77	780.79	54.72	-780.07	0.00	0.00	0.00
8,800.00	10.00	4.01	8,731.25	798.12	55.93	-797.39	0.00	0.00	0.00
8.900.00	10.00	4.01	8,829.73	815.45	57.15	-814.70	0.00	0.00	0.00
8,961.36	10.00	4.01	8,890.15	826.09	57.89	-825.32	0.00	0.00	0.00
9,000.00	6.16	6.76	8,928.40	831.49	58.37	-830.72	10.00	-9.95	7.11
9,100.00	3.96	168.67	9,028.25	833.44	59.68	-832.65	10.00	-2.20	161.91
9,200.00	13.91	176.63	9,126.91	818.01	61.07	-817.21	10.00	9.95	7.96
9,300.00	23.90	177.99	9,221.40	785.69	62.49	-784.87	10.00	9.99	1.35
9,400.00	33.90	178.57	9,308.84	737.45	63.90	-736.62	10.00	10.00	0.58
9,500.00	43.89	178.91	9,386.57	674.75	65.26	-673.91	10.00	10.00	0.34
9,600.00	53.89	179.15	9,452.23	599.51	66.53	-598.66	10.00	10.00	0.24
9,700.00	63.89	179.33	9,503.83	514.01	67.66	-513.15	10.00	10.00	0.18
9,800.00	73.89	179.48	9,539.80	420.84	68.62	-419.98	10.00	10.00	0.15
9,900.00	83.89	179.62	9,559.05	322.84	69.39	-321.98	10.00	10.00	0.14
9,962.86	90.17	179.70	9,562.30	260.10	69.77	-259.23	10.00	10.00	0.13
10,000.00	90.17	179.70	9,562.19	222.96	69.96	-239.23	0.00	0.00	0.00
10,100.00	90.17	179.70	9,561.88	122.96	70.48	-122.10	0.00	0.00	0.00
10,200.00	90.17	179.70	9,561.58	22.96	71.00	-22.10	0.00	0.00	0.00
10,300.00	90.17	179.70	9,561.27	-77.04	71.52	77.90	0.00	0.00	0.00
10,400.00	90.17	179.70	9,560.97	-177.03	72.04	177.90	0.00	0.00	0.00
10,500.00	90.17	179.70	9,560.66	-277.03	72.56	277.89	0.00	0.00	0.00

Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Gorge 12_13

Well: Corral Gorge 12_13 Fed Com 74H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Corral Gorge 12_13 Fed Com 74H

RKB = 24' @ 3181.30ft (Citadel 3) RKB = 24' @ 3181.30ft (Citadel 3)

Grid

- 10							
Planned Survey							
Measured Depth Inclination Azimuth (ft) (°) (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,600.00 90.17 179.7		-377.03	73.08	377.89	0.00	0.00	0.00
10,700.00 90.17 179.7 10,800.00 90.17 179.7		-477.03 -577.03	73.60 74.12	477.89 577.88	0.00 0.00	0.00 0.00	0.00 0.00
10,900.00 90.17 179.7		-677.02	74.64	677.88	0.00	0.00	0.00
11,000.00 90.17 179.7	0 9,559.14	-777.02	75.16	777.88	0.00	0.00	0.00
11,100.00 90.17 179.7		-877.02	75.68	877.88	0.00	0.00	0.00
11,200.00 90.17 179.7 11,300.00 90.17 179.7		-977.02 -1,077.02	76.20 76.72	977.87 1,077.87	0.00 0.00	0.00 0.00	0.00 0.00
11,400.00 90.17 179.7		-1,077.02 -1,177.02	76.72 77.24	1,077.87	0.00	0.00	0.00
11,500.00 90.17 179.7		-1,277.01	77.76	1,277.86	0.00	0.00	0.00
11,600.00 90.17 179.7	0 9,557.32	-1,377.01	78.28	1,377.86	0.00	0.00	0.00
11,700.00 90.17 179.7		-1,477.01	78.80	1,477.86	0.00	0.00	0.00
11,800.00 90.17 179.7		-1,577.01	79.32	1,577.86	0.00	0.00	0.00
11,900.00 90.17 179.7		-1,677.01 1,777.00	79.84	1,677.85	0.00	0.00	0.00
12,000.00 90.17 179.7		-1,777.00	80.36	1,777.85	0.00	0.00	0.00
12,100.00 90.17 179.7		-1,877.00 -1,977.00	80.88	1,877.85	0.00	0.00	0.00
12,200.00 90.17 179.7 12,300.00 90.17 179.7		-1,977.00 -2,077.00	81.40 81.92	1,977.84 2,077.84	0.00 0.00	0.00 0.00	0.00 0.00
12,400.00 90.17 179.7		-2,177.00	82.44	2,177.84	0.00	0.00	0.00
12,500.00 90.17 179.7		-2,277.00	82.96	2,277.84	0.00	0.00	0.00
12,600.00 90.17 179.7	0 9,554.27	-2,376.99	83.48	2,377.83	0.00	0.00	0.00
12,700.00 90.17 179.7	0 9,553.97	-2,476.99	84.00	2,477.83	0.00	0.00	0.00
12,800.00 90.17 179.7		-2,576.99	84.52	2,577.83	0.00	0.00	0.00
12,900.00 90.17 179.7		-2,676.99	85.04	2,677.82	0.00	0.00	0.00
13,000.00 90.17 179.7		-2,776.99	85.56	2,777.82	0.00	0.00	0.00
13,100.00 90.17 179.7		-2,876.99	86.08	2,877.82	0.00	0.00	0.00
13,200.00 90.17 179.7 13,300.00 90.17 179.7		-2,976.98 -3,076.98	86.60 87.12	2,977.81 3,077.81	0.00 0.00	0.00 0.00	0.00 0.00
13,400.00 90.17 179.7		-3,176.98	87.64	3,177.81	0.00	0.00	0.00
13,500.00 90.17 179.7		-3,276.98	88.16	3,277.81	0.00	0.00	0.00
13,600.00 90.17 179.7	0 9,551.23	-3,376.98	88.68	3,377.80	0.00	0.00	0.00
13,700.00 90.17 179.7		-3,476.97	89.20	3,477.80	0.00	0.00	0.00
13,800.00 90.17 179.7		-3,576.97	89.72	3,577.80	0.00	0.00	0.00
13,900.00 90.17 179.7 14,000.00 90.17 179.7		-3,676.97 -3,776.97	90.24 90.76	3,677.79 3,777.79	0.00 0.00	0.00 0.00	0.00 0.00
14,100.00 90.17 179.7		-3,876.97	91.27	3,877.79	0.00	0.00	0.00
14,100.00 90.17 179.7		-3,976.97	91.79	3,977.79	0.00	0.00	0.00
14,300.00 90.17 179.7		-4,076.96	92.31	4,077.78	0.00	0.00	0.00
14,400.00 90.17 179.7		-4,176.96	92.83	4,177.78	0.00	0.00	0.00
14,500.00 90.17 179.7		-4,276.96	93.35	4,277.78	0.00	0.00	0.00
14,600.00 90.17 179.7		-4,376.96	93.87	4,377.77	0.00	0.00	0.00
14,700.00 90.17 179.7		-4,476.96	94.39	4,477.77	0.00	0.00	0.00
14,800.00 90.17 179.7 14,900.00 90.17 179.7		-4,576.95 -4,676.95	94.91 95.43	4,577.77 4,677.77	0.00 0.00	0.00 0.00	0.00 0.00
15,000.00 90.17 179.7		-4,076.95 -4,776.95	95.45	4,777.76	0.00	0.00	0.00
15,100.00 90.17 179.7		-4,876.95	96.47	4,877.76	0.00	0.00	0.00
15,200.00 90.17 179.7	0 9,546.35	-4,976.95	96.99	4,977.76	0.00	0.00	0.00
15,300.00 90.17 179.7	0 9,546.05	-5,076.95	97.51	5,077.75	0.00	0.00	0.00
15,400.00 90.17 179.7		-5,176.94	98.03	5,177.75	0.00	0.00	0.00
15,500.00 90.17 179.7		-5,276.94	98.55	5,277.75	0.00	0.00	0.00
15,600.00 90.17 179.7		-5,376.94	99.07	5,377.75	0.00	0.00	0.00
15,700.00 90.17 179.7		-5,476.94 -5,576.94	99.59	5,477.74 5,577.74	0.00	0.00	0.00
15,800.00 90.17 179.7 15,900.00 90.17 179.7		-5,576.94 -5,676.93	100.11 100.63	5,577.74 5,677.74	0.00 0.00	0.00 0.00	0.00 0.00
16,000.00 90.17 179.7		-5,776.93	101.15	5,777.73	0.00	0.00	0.00

Planning Report

Database: Company: Project:

Site:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Corral Gorge 12_13

Well: Corral Gorge 12_13 Fed Com 74H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Corral Gorge 12_13 Fed Com 74H

RKB = 24' @ 3181.30ft (Citadel 3) RKB = 24' @ 3181.30ft (Citadel 3)

Grid

esign:	Permitting Pla	an							
lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,100.00	90.17	179.70	9,543.61	-5,876.93	101.67	5,877.73	0.00	0.00	0.00
16,200.00	90.17	179.70	9,543.31	-5,976.93	102.19	5,977.73	0.00	0.00	0.00
16,300.00	90.17	179.70	9,543.01	-6,076.93	102.71	6,077.73	0.00	0.00	0.00
16,400.00	90.17	179.70	9,542.70	-6,176.93	103.23	6,177.72	0.00	0.00	0.00
16,500.00	90.17	179.70	9,542.40	-6,276.92	103.75	6,277.72	0.00	0.00	0.00
16,600.00	90.17	179.70	9,542.09	-6,376.92	104.27	6,377.72	0.00	0.00	0.00
16,700.00	90.17	179.70	9,541.79	-6,476.92	104.79	6,477.71	0.00	0.00	0.00
16,800.00	90.17	179.70	9,541.48	-6,576.92	105.31	6,577.71	0.00	0.00	0.00
16,900.00	90.17	179.70	9,541.18	-6,676.92	105.83	6,677.71	0.00	0.00	0.00
17,000.00	90.17	179.70	9,540.87	-6,776.91	106.35	6,777.71	0.00	0.00	0.00
17,100.00	90.17	179.70	9,540.57	-6,876.91	106.87	6,877.70	0.00	0.00	0.00
17,200.00	90.17	179.70	9,540.27	-6,976.91	107.39	6,977.70	0.00	0.00	0.00
17,300.00	90.17	179.70	9,539.96	-7,076.91	107.91	7,077.70	0.00	0.00	0.00
17,400.00	90.17	179.70	9,539.66	-7,176.91	108.43	7,177.69	0.00	0.00	0.00
17,500.00	90.17	179.70	9,539.35	-7,276.91	108.95	7,277.69	0.00	0.00	0.00
17,600.00	90.17	179.70	9,539.05	-7,376.90	109.47	7,377.69	0.00	0.00	0.00
17,700.00	90.17	179.70	9,538.74	-7,476.90	109.99	7,477.69	0.00	0.00	0.00
17,800.00	90.17	179.70	9,538.44	-7,576.90	110.51	7,577.68	0.00	0.00	0.00
17,900.00	90.17	179.70	9,538.13	-7,676.90	111.03	7,677.68	0.00	0.00	0.00
18,000.00	90.17	179.70	9,537.83	-7,776.90	111.55	7,777.68	0.00	0.00	0.00
18,100.00	90.17	179.70	9,537.53	-7,876.89	112.07	7,877.67	0.00	0.00	0.00
18,200.00	90.17	179.70	9,537.22	-7,976.89	112.59	7,977.67	0.00	0.00	0.00
18,300.00	90.17	179.70	9,536.92	-8,076.89	113.11	8,077.67	0.00	0.00	0.00
18,400.00	90.17	179.70	9,536.61	-8,176.89	113.63	8,177.67	0.00	0.00	0.00
18,500.00	90.17	179.70	9,536.31	-8,276.89	114.15	8,277.66	0.00	0.00	0.00
18,600.00	90.17	179.70	9,536.00	-8,376.89	114.67	8,377.66	0.00	0.00	0.00
18,700.00	90.17	179.70	9,535.70	-8,476.88	115.19	8,477.66	0.00	0.00	0.00
18,800.00	90.17	179.70	9,535.39	-8,576.88	115.71	8,577.65	0.00	0.00	0.00
18,900.00	90.17	179.70	9,535.09	-8,676.88	116.23	8,677.65	0.00	0.00	0.00
19,000.00	90.17	179.70	9,534.79	-8,776.88	116.75	8,777.65	0.00	0.00	0.00
19,100.00	90.17	179.70	9,534.48	-8,876.88	117.27	8,877.65	0.00	0.00	0.00
19,200.00	90.17	179.70	9,534.18	-8,976.87	117.79	8,977.64	0.00	0.00	0.00
19,300.00	90.17	179.70	9,533.87	-9,076.87	118.31	9,077.64	0.00	0.00	0.00
19,400.00	90.17	179.70	9,533.57	-9,176.87	118.83	9,177.64	0.00	0.00	0.00
19,500.00	90.17	179.70	9,533.26	-9,276.87	119.35	9,277.63	0.00	0.00	0.00
19,600.00	90.17	179.70	9,532.96	-9,376.87	119.87	9,377.63	0.00	0.00	0.00
19,700.00	90.17	179.70	9,532.65	-9,476.87	120.39	9,477.63	0.00	0.00	0.00
19,800.00	90.17	179.70	9,532.35	-9,576.86	120.91	9,577.63	0.00	0.00	0.00
19,900.00	90.17	179.70	9,532.04	-9,676.86	121.43	9,677.62	0.00	0.00	0.00
20,000.00	90.17	179.70	9,531.74	-9,776.86	121.95	9,777.62	0.00	0.00	0.00
20,100.00	90.17	179.70	9,531.44	-9,876.86	122.47	9,877.62	0.00	0.00	0.00
20,200.00	90.17	179.70	9,531.13	-9,976.86	122.99	9,977.61	0.00	0.00	0.00
20,300.00	90.17	179.70	9,530.83	-10,076.85	123.51	10,077.61	0.00	0.00	0.00
20,400.00	90.17	179.70	9,530.52	-10,176.85	124.03	10,177.61	0.00	0.00	0.00
20,473.02	90.17	179.70	9,530.30	-10,249.87	124.41	10,250.63	0.00	0.00	0.00

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Gorge 12_13

Well: Corral Gorge 12_13 Fed Com 74H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Corral Gorge 12_13 Fed Com 74H

RKB = 24' @ 3181.30ft (Citadel 3) RKB = 24' @ 3181.30ft (Citadel 3)

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
KOP (Corral Gorge - plan misses target - Point	0.00 center by 31	0.00 17.79ft at 0.0	0.00 Ooft MD (0.0	310.09 1 00.0 ,DVT 00	69.50 N, 0.00 E)	419,228.62	666,000.09	32.151897	-103.930517
PBHL (Corral Gorge - plan hits target cer - Point	0.00 nter	0.00	9,530.30	-10,249.87	124.41	408,669.45	666,055.00	32.122870	-103.930467
FTP (Corral Gorge - plan hits target cer - Point	0.00 nter	0.00	9,562.30	260.10	69.77	419,178.63	666,000.36	32.151759	-103.930516

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	448.30	448.30	RUSTLER			
	894.30	894.30	SALADO			
	1,840.30	1,840.30	CASTILE			
	3,394.30	3,394.30	DELAWARE			
	3,407.30	3,407.30	BELL CANYON			
	4,319.36	4,318.30	CHERRY CANYON			
	5,656.25	5,635.30	BRUSHY CANYON			
	7,227.14	7,182.30	BONE SPRING			
	8,210.08	8,150.30	BONE SPRING 1ST			
	9,068.02	8,996.30	BONE SPRING 2ND			

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
3,945.00	3,945.00	0.00	0.00	Build 2°/100'
4,445.21	4,442.68	43.45	3.05	Hold 10° Tangent
8,961.36	8,890.15	826.09	57.89	KOP, Build & Turn 10°/100'
9,962.86	9,562.30	260.10	69.77	Landing Point
20,473.02	9,530.30	-10,249.87	124.41	TD at 20473.02' MD

Oxy USA Inc. - Corral Gorge 12_13 Fed Com 74H Drill Plan

1. Geologic Formations

TVD of Target (ft):	9562	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	20473	Deepest Expected Fresh Water (ft):	448

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	448	448	
Salado	894	894	Salt
Castile	1840	1840	Salt
Delaware	3394	3394	Oil/Gas/Brine
Bell Canyon	3407	3407	Oil/Gas/Brine
Cherry Canyon	4319	4318	Oil/Gas/Brine
Brushy Canyon	5656	5635	Losses
Bone Spring	7227	7182	Oil/Gas
Bone Spring 1st	8210	8150	Oil/Gas
Bone Spring 2nd	9068	8996	Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		V	ID	TVD		TVD					
	Hole	From	То	From	То	Csg.	Csg Wt.				
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.		
Surface	14.75	0	834	0	834	10.75	45.5	J-55	BTC		
Intermediate	9.875	0	8861	0	8790	7.827	39.3	P110S	Wedge 463		
Production	6.75	8661	20473	8590	9562	5.5	20	P-110	Wedge 461		

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

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

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

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

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	1
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 three strings cemented to surface?	

Created On: 10/31/2023 at 12:55 PM

Occidental - Permian New Mexico

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	698	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	372	1.65	13.2	5%	5,906	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	839	1.71	13.3	25%	1	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	891	1.38	13.2	25%	8,661	Circulate	Class H+Ret., Disper., Salt

Offline Cementing Request

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

Bradenhead CBL Request

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

Cement Top and Liner Overlap

- Oxy is requesting permission to have minimum fill of cement behind the 5-1/2" production liner to be 200 ft into previous casing string
 - The reason for this is so that we can come back and develop shallower benches from the same 7.625''/7.827'' mainbore in the future
- Cement will be brought to the top of this liner hanger

Corral Gorge 12_13 Fed Com 74H

Created On: 10/31/2023 at 12:55 PM

Occidental - Permian New Mexico

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:
	51			Annular	✓	70% of working pressure	
				Blind Ram	✓		8790
9.875" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	
		Sivi	Double Ram		✓	230 psi / 3000 psi	
			Other*				
		5M		Annular	✓	70% of working pressure	
			Blind Ram ✓			7	
6.75" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	9562
		SIVI		Double Ram		230 psi / 3000 psi	
			Other*				

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

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

^{*}Specify if additional ram is utilized

Created On: 10/31/2023 at 12:55 PM

Occidental - Permian New Mexico

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

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

A 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.

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

See attached schematics.

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. Please see BOP Break Testing Variance attachment for further details.

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

5. Mud Program

Section	Depth -	- MD	Depth -	TVD	Tymo	Weight	Viscosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Type (ppg) Viscosity		Viscosity	Loss
Surface	0	834	0	834	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	834	8861	834	8790	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	8861	20473	8790	9562	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	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	F V 1/1VID TOLCO/ VISUAL IVIOLITIONING

6. Logging and Testing Procedures

Loggi	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					

Addit	ional logs planned	Interval
No	Resistivity	
No	Density	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

Created On: 10/31/2023 at 12:55 PM

Occidental - Permian New Mexico

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6216 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	157°F

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

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

CITE D	ie beivii					
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 2 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Total Estimated Cuttings Volume: 1451 bbls

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First 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

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

XXX AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

WEEL ECCHTION THAD MERENGE DEDICATION LETT				
¹ API Number 30-015-47204		96473 Pool Code 96473 PIERCE CROSSING; BONE SPRING, EAST		
⁴ Property Code			operty Name RGE 12-13 FED COM	⁶ Well Number 74H
⁷ OGRID No. 16696			perator Name Y USA INC.	⁹ Elevation 3157.3'

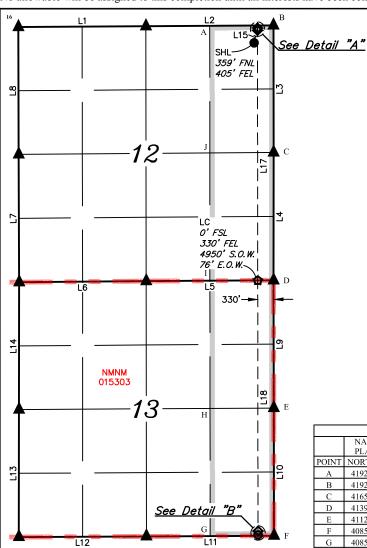
¹⁰ Surface Location

_										
ı	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
ı	A	12	25S	29E		359	NORTH	405	EAST	EDDY

"Bottom Hole Location If Different From Surface

UL or lot no P	S	Section 13	Township 25S	Range 29E	Lot Idn	Feet from the 20	North/South line SOUTH	Feet from the 334	East/West line EAST	County EDDY
12 Dedicated 320	Acres	¹³ Jo	oint or Infill	14 Conso	olidation Code	15 Order No.				

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.



Detail "A"

LINE TABLE				
LINE	DIRECTION	LENGTH		
L1	S89°37'24"W	2657.23'		
L2	S89°39'34"W	2658.17		
L3	N00°04'46"W	2646.95		
L4	N00°02'30"E	2662.95		
L5	S89°37'52"W	2654.54		
L6	S89*30'00"W	2646.75		
L7	N00°10'06"W	2662.50'		
L8	N00°10'27"W	2654.36		
L9	N00°06'33"W	2661.12		
L10	N00°05'17"W	2660.88		
L11	S89°43'54"W	2658.35'		
L12	S89°43'46"W	2657.66		
L13	N00°03'31"E	2654.12		
L14	N00°03'48"E	2652.67		
L15	N12*52'13"E	317.83'		
L16	S00°04'46"E	50.00'		
L17	S00°03'30"E	5210.05'		
L18	S00°03'30"E	5221.43'		
L19	S00°05'17"E	80.00'		

HSU COORDINATES								
	NAD 27 N.	M. STATE	NAD 83 N.	M. STATE				
	PLANE, EA	ST ZONE	PLANE, EA	AST ZONE				
POINT	NORTHING	EASTING	NORTHING	EASTING				
Α	419210.15'	623820.32'	419268.54'	665004.98'				
В	419223.60'	625149.05'	419281.99'	666333.73'				
С	416577.29'	625163.70'	416635.62'	666348.45'				
D	413914.95'	625172.81'	413973.23'	666357.64'				
E	411254.49'	625188.92'	411312.71'	666373.83'				
F	408594.25'	625204.05'	408652.42'	666389.03'				
G	408582.48'	623875.22'	408640.64'	665060.18'				
Н	411240.99'	623860.81'	411299.22'	665045.70'				
I	413900.86'	623845.90'	413959.14'	665030.72'				
ī	416561 55'	623834 48'	416619 89'	665019 22'				

NAD 27 (KICK OFF POINT)

LATITUDE = 32°09'06.38" (32.151773°)

Section Line No Scale KOF Distances referenced on plat to section lines are perpendicular. Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83) SCALE DRAWN BY: D.M.C. 09-06-23 NAD 83 (KICK OFF POINT) LATITUDE = 32°09'06.83" (32.151897°) LONGITUDE = -103°55'49.86" (-103.930516°

5) **\$**FTP 100' FNL 334' FEL TI TP ∞ | 100' FSL 334' FEL BHL | 20' FSL | 334' FEL Section Line

NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 32°09'03.76" (32.151045°) LONGITUDE = -103°55'50.68" (-103.930745° NAD 27 (SURFACE HOLE LOCATION) LATITUDE = 32°09'03.32" (32.150921°) STATE PLANE NAD 83 (N.M. EAST) STATE PLANE NAD 27 (N.M. EAST)

NAD 83 (LEASE CROSSING) LATITUDE = 32°08'14.79" (32.137441 LONGITUDE = -103°55'49.77" (-103.9 NAD 27 (LEASE CROSSING)
LATITUDE = 32°08'14.34" (32.137317°)
LONGITUDE = -103°55'48.03" (-103.930008°)

STATE PLANE NAD 83 (N.M. EAST) N: 413969.72' E: 666027.43'

STATE PLANE NAD 27 (N.M. EAST) LONGITUDE = -103°55'48.11" (-103.930 STATE PLANE NAD 83 (N.M. EAST) STATE PLANE NAD 27 (N.M. EAST) LATITUDE = 32°07'23.13" (32.123090 LONGITUDE = -103°55'49.68" (-103.9 = -103°55'49.68" (-103.930467 NAD 27 (LAST TAKE POINT)
LATITUDE = 32°07'22.68" (32.122966°)
LONGITUDE = -103°55'47.94" (-103.929984°) STATE PLANE NAD 83 (N.M. EAST) STATE PLANE NAD 27 (N.M. EAST)

¹⁷OPERATOR **CERTIFICATION**

I hereby certify that the information contained 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 drift this well at this location pursuant. right to drill this well at this location pursuant to a contract with an owner of such a mineral to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

12/7/2023 Date

STEPHEN JANACEK Printed Name

STEPHEN_JANACEK@OXY.COM

E-mail Address

18 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.

August 10, 2023

Date of Survey

Signature and Seal of Professional Surveyor:



= SURFACE HOLE LOCATION = KICK OFF POINT/TAKE POINTS

◆ = LEASE CROSSING = BOTTOM HOLE LOCATION

▲ = SECTION CORNER LOCATED

∴ = SECTION CORNER

RE-ESTABLISHED
(Not Set on Ground.)

= LEASE LINE
= HORIZONTAL SPACING UNIT
S.O.W. = SOUTH OF WELL
E.O.W. = EAST OF WELL

NAD 83 (FIRST TAKE POINT) LATITUDE = 32°09'06.33" (32.151759°) LONGITUDE = -103°55'49.86" (-103.930516°) NAD 27 (FIRST TAKE POINT) LATITUDE = 32°09'05.89" (32.151636°) LONGITUDE = -103°55'48.11" (-103.930 STATE PLANE NAD 83 (N.M. EAST) STATE PLANE NAD 27 (N.M. EAST)

NAD 83 (BOTTOM HOLE LOCATION) LATITUDE = 32°07'22.33" (32.122870°) LONGITUDE = -103°55'49.68" (-103.930

NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 32°07'21.89" (32.122746°)
LONGITUDE = -103°55'47.94" (-103.929983°) STATE PLANE NAD 83 (N.M. EAST) N: 408669.45' E: 666055.00'

STATE PLANE NAD 27 (N.M. EAST)

No Scale Released to Imaging: 3/12/2024 3:21:19 PM

<u>Detail "B"</u>

P110-S

Casing

TenarisHydril Wedge 463®



Coupling	Pipe Body
Grade: P110-S	Grade: P110-S
Body: White	1st Band: White
1st Band: Orange	2nd Band: Orange
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.827 in.	Wall Thickness	0.500 in.	Grade
Min. Wall Thickness	87.50 %	Pipe Body Drift	Special Drift	Туре
Connection OD Option	REGULAR			

Pipe Body Data

Geometry			
Nominal OD	7.827 in.	Wall Thickness	0.500 in.
Nominal Weight	39.30 lb/ft	Plain End Weight	39.16 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.827 in.		

Performance	
Body Yield Strength	1266 x1000 lb
Min. Internal Yield Pressure	12,300 psi
SMYS	110,000 psi
Collapse Pressure	10,490 psi

Connection Data

Geometry	
Connection OD	8.500 in.
Coupling Length	10.950 in.
Connection ID	6.814 in.
Make-up Loss	4.520 in.
Threads per inch	3.25
Connection OD Option	Regular

Performance	
Tension Efficiency	100 %
Joint Yield Strength	1266 x1000 lb
Internal Pressure Capacity	12,300 psi
Compression Efficiency	100 %
Compression Strength	1266 x1000 lb
Max. Allowable Bending	64.42 °/100 ft
External Pressure Capacity	10,490 psi
Coupling Face Load	414,177 lb

Make-Up Torques	
Minimum	22,000 ft-lb
Optimum	23,000 ft-lb
Maximum	27,000 ft-lb
Operation Limit Torques	
Operating Torque	61,000 ft-lb
Yield Torque	70,000 ft-lb
Buck-On	
Minimum	26,000 ft-lb
Maximum	29,000 ft-lb

Notes

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

Tenaris has issued this document for general information only, and the information in this document, including, without limitation, any pictures, drawings or designs ("Information") is not intended to constitute professional or any other type of advice or recommendation and is provided on an "as is" basis. No warranty is given. Tenaris has not independently verified any information —if any- provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user's own risk and Tenaris does not assume any responsibility of inability of any kind for any loss, damage or injury resulting from, or in connection with any Information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris's products and services are subject to Tenaris's standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at www.tenaris.com. ©Tenaris 2023. All rights reserved.

PII/CII

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 321022

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	321022
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created	Ву	Condition	Condition Date
ward.ri	ikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	3/12/2024