Sundry Print Report

County or Parish/State: EDDY /

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

Well Number: 302H

Well Name: COBRA COBRETTI BS Well Location: T25S / R28E / SEC 1 / FEDERAL COM

SWSE / 32.1533788 / -104.0381278

Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM107373 **Unit or CA Name: Unit or CA Number:**

US Well Number: 3001555212 **Operator: MARATHON OIL PERMIAN**

LLC

Notice of Intent

Sundry ID: 2810144

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 09/04/2024 **Time Sundry Submitted: 12:47**

Date proposed operation will begin: 09/04/2024

Procedure Description: Marathon Oil Permian LLC respectfully request approval to change the well from a three-mile lateral to a two and a half-mile lateral. We also propose changing the SHL, BHL, and drill plan as described below and on the attached: SHL Change: From 525' FSL 1781' FEL Sec1- T25S-R28E To 277' FSL 1662' FEL Sec1- T25S-R28E FTP Change: From: 100 FSL 1000 FEL Sec1-T25S-R28E To: 100 FSL 330' FEL Sec1-T25S-R28E LTP/BHL Change: From 100' FNL 1000' FEL Sec25-T24S-R28E To 2540' FSL 330' FEL Sec25-T24S-R28E Change Approved Location Table: SHL: NMNM016104 KOP/PP1: Fee EXIT/BHL: State Casing Design Change: Intermediate Set Depth From: 6918' To: 7118' Production Set Depth From: 23112' To: 20589' No other changes to the casing design. Cement Design Changes - Please see attached drill plan. Please see attached drill plan, directional plan, and C-102s (proposed & previously approved) for review and approval.

NOI Attachments

Procedure Description

Proposed __Cobra_Cobretti_BS_Federal_Com_302H___Directional_Plan_20240904100549.pdf

Proposed Cobra Cobretti BS FED COM 302H Drill Plan 20240904100548.pdf

C102_Proposed Cobra_Cobretti_BS_Fed_Com_302H_20240904100551.pdf

C102_Approved___Cobra_Cobretti_BS_Fed_Com_302H_20240904100549.pdf

eived by OCD: 19/6/2024 8:09:39 AM Well Name: COBRA COBRETTIBS

FEDERAL COM

Well Location: T25S / R28E / SEC 1 / SWSE / 32.1533788 / -104.0381278

County or Parish/State: Page 2 of

Well Number: 302H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM107373

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001555212

Operator: MARATHON OIL PERMIAN

Conditions of Approval

Additional

COBRA_COBRETTI_BS_FEDERAL_COM_302H___COA_20240919183738.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: ADRIAN COVARRUBIAS Signed on: SEP 04, 2024 12:46 PM

Name: MARATHON OIL PERMIAN LLC

Title: regulatory Compliance Representative

Street Address: 990 TOWN & COUNTRY BLVD

City: HOUSTON State: TX

Phone: (713) 296-3368

Email address: acovarrubias@marathonoil.com

Field

Representative Name:

Street Address:

City: State:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CODY LAYTON

BLM POC Phone: 5752345959

Disposition: Approved

Signature: Cody R. Layton

BLM POC Title: Assistant Field Manager Lands & Minerals

BLM POC Email Address: clayton@blm.gov

Zip:

Disposition Date: 10/03/2024

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

BURE	EAU OF LAND MANAGEMENT		S. Lease Serial No. G. If Indian, Allottee or Tribe Name S. Lease Serial No. S. Lease Serial No. S. Lease Serial No. S. Lease Serial No. S. Lease Serial No.					
Do not use this fo	orm for proposals to drill or to	re-enter an						
	RIPLICATE - Other instructions on pag	e 2	7. If Unit of CA/Agreement, 1	Name and/or No.				
	ell Other		8. Well Name and No.					
2. Name of Operator			9. API Well No.					
3a. Address	3b. Phone No.	(include area code)	10. Field and Pool or Explora	tory Area				
4. Location of Well (Footage, Sec., T.,R.	.,M., or Survey Description)		11. Country or Parish, State					
12. CHEC	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE (OF NOTICE, REPORT OR OT	HER DATA				
TYPE OF SUBMISSION		TYPI	E OF ACTION					
Notice of Intent			Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity				
Cubacquent Report			Recomplete	Other				
Subsequent Report	Change Plans Plug	and Abandon	Temporarily Abandon	_				
Final Abandonment Notice	Convert to Injection Plug	Back	Water Disposal					
4. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)	T:41-						
		11110						
Signature		Date						
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 INTRIPLICATE - Other instructions on page 2 7. If Unit of		TE OFICE USE						
Approved by								
		Title		Date				
	quitable title to those rights in the subject le							
Title 18 U.S.C Section 1001 and Title 43	U.S.C Section 1212, make it a crime for ar	y person knowingly	and willfully to make to any d	epartment 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, 3162.3-4.

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

From 100' FNL 1000' FEL Sec25-T24S-R28E To 2540' FSL 330' FEL Sec25-T24S-R28E

Change Approved Location Table:

SHL: NMNM016104 KOP/PP1: Fee

EXIT/BHL: State

Casing Design Change:

Intermediate Set Depth

From: 6918' To: 7118'

Production Set Depth

From: 23112' To: 20589'

No other changes to the casing design.

Cement Design Changes - Please see attached drill plan.

Please see attached drill plan, directional plan, and C-102s (proposed & previously approved) for review and approval.

Location of Well

0. SHL: SWSE / 524 FSL / 1811 FEL / TWSP: 25S / RANGE: 28E / SECTION: 1 / LAT: 32.1533788 / LONG: -104.0381278 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 2660 FNL / 1038 FEL / TWSP: 24S / RANGE: 28E / SECTION: 25 / LAT: 32.1884658 / LONG: -104.035353 (TVD: 7490 feet, MD: 21200 feet)

BHL: NENE / 100 FNL / 1000 FEL / TWSP: 24S / RANGE: 28E / SECTION: 25 / LAT: 32.1955018 / LONG: -104.0353226 (TVD: 7490 feet, MD: 23112 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | MARATHON OIL PERMIAN LLC

WELL NAME & NO.: | COBRA COBRETTI BS FEDERAL COM 302H

SURFACE HOLE FOOTAGE: 277'/S & 1662'/E BOTTOM HOLE FOOTAGE 2540'/S & 330'/E

LOCATION: Section 1, T.25 S., R.28 E. COUNTY: Eddy County, New Mexico

ALL PREVIOUS COAs STILL APPLY

COA

H2S	• Yes	O No	
Potash	None	O Secretary	O R-111-P
Cave/Karst Potential	O Low	O Medium	• High
Cave/Karst Potential	O Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	Multibowl	O Both
Wellhead Variance	O Diverter		
Other	□4 String	☐ Capitan Reef	□WIPP
Other	☐ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency	☐ EchoMeter	☐ Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	☐ Water Disposal	☑ COM	□ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements	☐ Break Testing	☐ Offline	✓ Casing
Variance	_	Cementing	Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 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

Primary Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **500** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (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.
- 2. The 9-5/8 inch intermediate casing shall be set at approximately 7118 feet. **Keep casing minimum half full during run for collapse SF.** The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1:

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:

The operator has not proposed a DV tool depth. DV tool needs to be below the Salado interval. Operator may adjust depth of DV tool if it remains below the Salado and cement volumes are adjusted accordingly. 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 <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

- 3. The **5-1/2** inch production casing shall be set at approximately **20,589** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; (575) 361-2822

Contact Lea County Petroleum Engineering Inspection Staff:

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
 - i.Notify the BLM when moving in and removing the Spudder Rig.
 - ii.Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii.BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

- 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. <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 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 integrity 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-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and

equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii.If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii.Manufacturer representative shall install the test plug for the initial BOP test
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v.If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i.In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii.In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or

- twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v.The results of the test shall be reported to the appropriate BLM office.
- vi.All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii.BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created 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 9/19/2024



Project: Eddy County, NM (NAD27-NME)

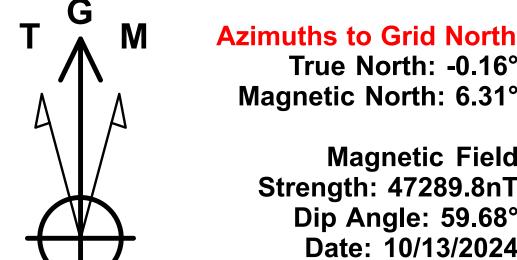
Site: Cobra Cobretti

Well: Cobra Cobretti BS Federal Com 302H

Wellbore: OH

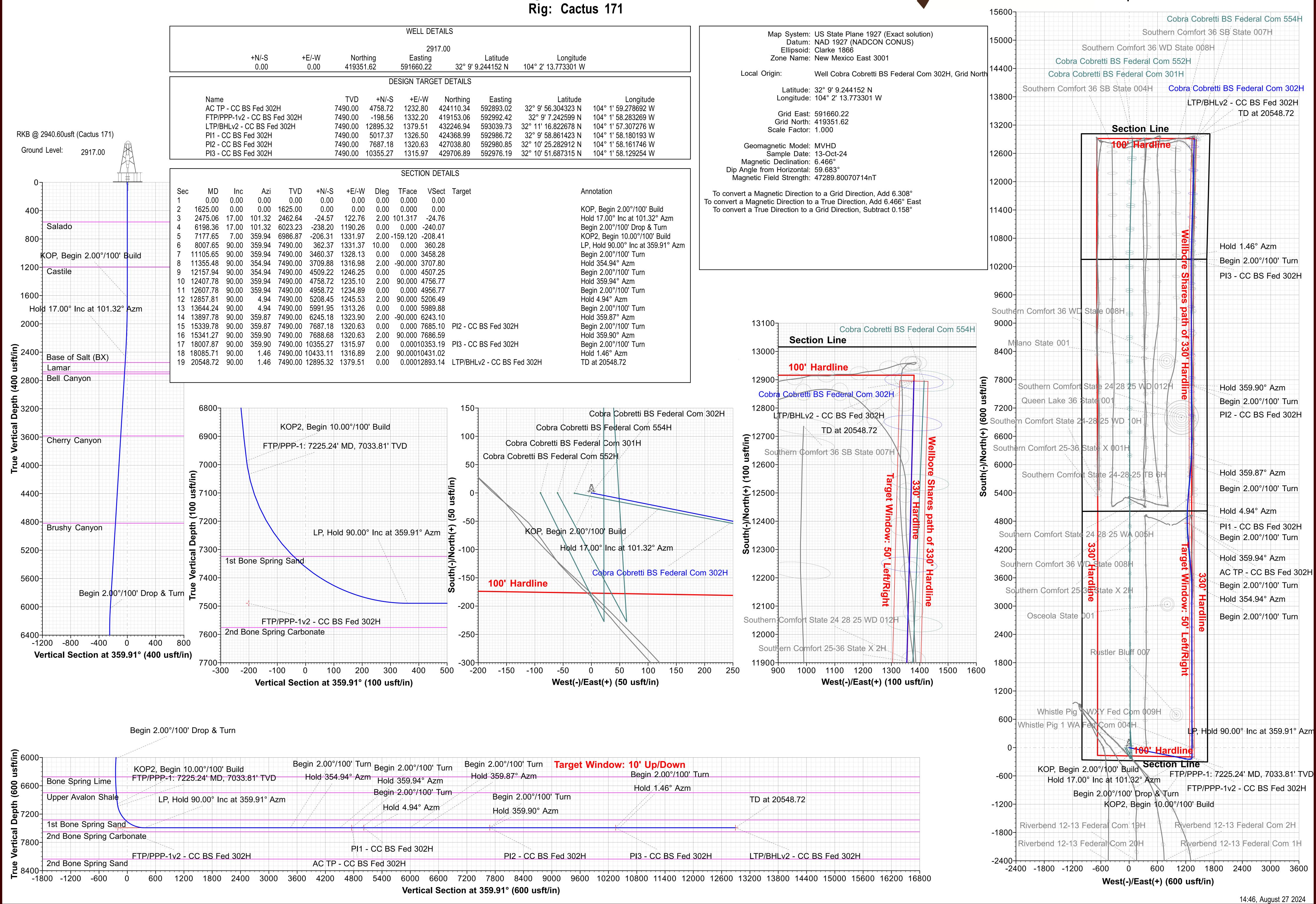
Design: Plan 2 08-27-24





True North: -0.16° Magnetic North: 6.31°

Magnetic Field Strength: 47289.8nT Dip Angle: 59.68° Date: 10/13/2024 Model: MVHD





Marathon Oil Permian LLC

Eddy County, NM (NAD27-NME) Cobra Cobretti Cobra Cobretti BS Federal Com 302H

OH

Plan: Plan 2 08-27-24

Standard Planning Report

27 August, 2024







USAEDMDB Database:

Company: Marathon Oil Permian LLC Project: Eddy County, NM (NAD27-NME)

Site:

Cobra Cobretti Well: Cobra Cobretti BS Federal Com 302H

Wellbore: OH

Design: Plan 2 08-27-24 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Cobra Cobretti BS Federal Com 302H

RKB @ 2940.60usft (Cactus 171) RKB @ 2940.60usft (Cactus 171)

Minimum Curvature

Project Eddy County, NM (NAD27-NME)

US State Plane 1927 (Exact solution) Map System: NAD 1927 (NADCON CONUS) Geo Datum:

Map Zone: New Mexico East 3001 System Datum: Mean Sea Level

Cobra Cobretti Site

Site Position: Northing: 419,387.27 usft Latitude: 32° 9' 9.586404 N From: Мар Easting: 592,047.05 usft Longitude: 104° 2' 9.272453 W **Position Uncertainty:** 0.00 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.158°

Well Cobra Cobretti BS Federal Com 302H

Well Position +N/-S -35.65 usft Northing: 419,351.62 usft Latitude: 32° 9' 9.244152 N +E/-W -386.83 usft Easting: 591,660.22 usft Longitude: 104° 2' 13.773301 W

Position Uncertainty 1.00 usft Wellhead Elevation: Ground Level: 2,917.00 usft

ОН Wellbore

Declination **Dip Angle** Field Strength Magnetics **Model Name** Sample Date (°) (nT) (°) 59.683 47.289.80070714 **MVHD** 2024-10-13 6.466

Plan 2 08-27-24 Design

Audit Notes:

Version: Phase: **PLAN** Tie On Depth: 0.00

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.00 0.00 0.00 359.91

Plan Survey Tool Program Date 2024-08-27

Depth From Depth To

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

0.00 1 20,548.72 Plan 2 08-27-24 (OH) A008Mc_MWD+IFR1+MS_

MWD+IFR1+MSA





Database: Company: Project: USAEDMDB

Marathon Oil Permian LLC Eddy County, NM (NAD27-NME)

Cobra Cobretti

Site: Well:

Cobra Cobretti BS Federal Com 302H

Wellbore: OH

Design: Plan 2 08-27-24

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Cobra Cobretti BS Federal Com 302H

RKB @ 2940.60usft (Cactus 171) RKB @ 2940.60usft (Cactus 171)

Grid

Minimum Curvature

Plan Section	s									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,625.00	0.00	0.00	1,625.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,475.06	17.00	101.32	2,462.64	-24.57	122.76	2.00	2.00	0.00	101.317	
6,198.36	17.00	101.32	6,023.23	-238.20	1,190.26	0.00	0.00	0.00	0.000	
7,177.65	7.00	359.94	6,986.87	-206.31	1,331.97	2.00	-1.02	-10.35	-159.120	
8,007.65	90.00	359.94	7,490.00	362.37	1,331.37	10.00	10.00	0.00	0.000	
11,105.65	90.00	359.94	7,490.00	3,460.37	1,328.13	0.00	0.00	0.00	0.000	
11,355.48	90.00	354.94	7,490.00	3,709.88	1,316.98	2.00	0.00	-2.00	-90.000	
12,157.94	90.00	354.94	7,490.00	4,509.22	1,246.25	0.00	0.00	0.00	0.000	
12,407.78	90.00	359.94	7,490.00	4,758.72	1,235.10	2.00	0.00	2.00	90.000	
12,607.78	90.00	359.94	7,490.00	4,958.72	1,234.89	0.00	0.00	0.00	0.000	
12,857.81	90.00	4.94	7,490.00	5,208.45	1,245.53	2.00	0.00	2.00	90.000	
13,644.24	90.00	4.94	7,490.00	5,991.95	1,313.26	0.00	0.00	0.00	0.000	
13,897.78	90.00	359.87	7,490.00	6,245.18	1,323.90	2.00	0.00	-2.00	-90.000	
15,339.78	90.00	359.87	7,490.00	7,687.18	1,320.63	0.00	0.00	0.00	0.000	PI2 - CC BS Fed 30
15,341.27	90.00	359.90	7,490.00	7,688.68	1,320.63	2.00	0.00	2.00	90.000	
18,007.87	90.00	359.90	7,490.00	10,355.27	1,315.97	0.00	0.00	0.00	0.000	PI3 - CC BS Fed 30
18,085.71	90.00	1.46	7,490.00	10,433.11	1,316.89	2.00	0.00	2.00	90.000	
20,548.72	90.00	1.46	7,490.00	12,895.32	1,379.51	0.00	0.00	0.00	0.000	LTP/BHLv2 - CC BS





Database: Company: Project:

Site:

USAEDMDB

Marathon Oil Permian LLC Eddy County, NM (NAD27-NME)

Cobra Cobretti

Well: Wellbore: Cobra Cobretti BS Federal Com 302H

ОН

Design: Plan 2 08-27-24

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Cobra Cobretti BS Federal Com 302H

RKB @ 2940.60usft (Cactus 171) RKB @ 2940.60usft (Cactus 171)

Grid

Minimum Curvature

nne	d Survey									
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.00 560.60 Salado	0.00 0.00	0.00 0.00	0.00 560.60	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
	1,196.60	0.00	0.00	1,196.60	0.00	0.00	0.00	0.00	0.00	0.00
	1,625.00	0.00 2.00°/100' Bui	0.00	1,625.00	0.00	0.00	0.00	0.00	0.00	0.00
	2.475.06	17.00 17.00 17.00	101.32	2,462.64	-24.57	122.76	-24.76	2.00	2.00	0.00
	,	'Inc at 101.32°		2,402.04	-24.51	122.70	-24.70	2.00	2.00	0.00
	2,563.90	17.00	101.32	2,547.60	-29.67	148.23	-29.90	0.00	0.00	0.00
	Base of Sal 2,701.93 Lamar	17.00	101.32	2,679.60	-37.59	187.81	-37.88	0.00	0.00	0.00
	2,731.21 Bell Canyo	17.00 n	101.32	2,707.60	-39.27	196.20	-39.57	0.00	0.00	0.00
	3,648.29 Cherry Can	17.00	101.32	3,584.60	-91.89	459.14	-92.61	0.00	0.00	0.00
	4,939.73 Brushy Car	17.00	101.32	4,819.60	-165.99	829.40	-167.29	0.00	0.00	0.00
	•	17.00 2/ 100' Drop & T		6,023.23	-238.20	1,190.26	-240.07	0.00	0.00	0.00
	6,597.83 Bone Sprin	•	84.64	6,411.60	-246.46	1,282.00	-248.47	2.00	-1.77	-4.17
	6,936.94 Upper Aval	6.10 on Shale	42.46	6,747.60	-230.42	1,323.35	-232.50	2.00	-1.13	-12.44
	7,177.65 KOP2 Beg	7.00 in 10.00°/100' E	359.94 Build	6,986.87	-206.31	1,331.97	-208.41	2.00	0.38	-17.67
	7,225.24	11.76 : 7225.24' MD , :	359.94	7,033.81	-198.56	1,331.96	-200.65	10.00	10.00	0.00
	7,561.07 1st Bone S	45.34 pring Sand	359.94	7,324.60	-40.34	1,331.79	-42.43	10.00	10.00	0.00
	8,007.65	90.00	359.94	7,490.00	362.37	1,331.37	360.28	10.00	10.00	0.00
	11,105.65	90.00 (400) Trans	359.94	7,490.00	3,460.37	1,328.13	3,458.28	0.00	0.00	0.00
	Begin 2.00° 11,355.48 Hold 354.94	90.00	354.94	7,490.00	3,709.88	1,316.98	3,707.80	2.00	0.00	-2.00
	12,157.94 Begin 2.00°	90.00	354.94	7,490.00	4,509.22	1,246.25	4,507.25	0.00	0.00	0.00
	12,407.78	90.00	359.94	7,490.00	4,758.72	1,235.10	4,756.77	2.00	0.00	2.00
	Hold 359.94 12,607.78	90.00	359.94	7,490.00	4,958.72	1,234.89	4,956.77	0.00	0.00	0.00
	Begin 2.00° 12,857.81 Hold 4.94°	90.00	4.94	7,490.00	5,208.45	1,245.53	5,206.49	2.00	0.00	2.00
	13,644.24 Begin 2.00°	90.00	4.94	7,490.00	5,991.95	1,313.26	5,989.88	0.00	0.00	0.00
	13,897.78 Hold 359.87	90.00 7° Azm	359.87	7,490.00	6,245.18	1,323.90	6,243.10	2.00	0.00	-2.00
	15,339.78 Begin 2.00 °	90.00 °/100' Turn	359.87	7,490.00	7,687.18	1,320.63	7,685.10	0.00	0.00	0.00





0.00

Database: Company: Project:

Site:

USAEDMDB

Marathon Oil Permian LLC

Eddy County, NM (NAD27-NME) Cobra Cobretti

90.00

1.46

7,490.00

Well:

Cobra Cobretti BS Federal Com 302H

Wellbore: OH

20,548.72

TD at 20548.72

Design: Plan 2 08-27-24

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

1,379.51

12,893.14

Well Cobra Cobretti BS Federal Com 302H

0.00

RKB @ 2940.60usft (Cactus 171) RKB @ 2940.60usft (Cactus 171)

Grid

Minimum Curvature

0.00

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,341.27	90.00	359.90	7,490.00	7,688.68	1,320.63	7,686.59	2.00	0.00	2.00
Hold 359.9	0° Azm								
18,007.87	90.00	359.90	7,490.00	10,355.27	1,315.97	10,353.19	0.00	0.00	0.00
Begin 2.00	°/100' Turn								
18,085.71	90.00	1.46	7,490.00	10,433.11	1,316.89	10,431.02	2.00	0.00	2.00
Hold 1.46°	Azm								

12,895.32

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
AC TP - CC BS Fed 3 - plan misses targ - Point			7,490.00 12407.78u			424,110.34 58.72 N, 1235.10		: 32° 9' 56.304323 N	04° 1' 59.278692 W
LTP/BHLv2 - CC BS F - plan hits target c - Rectangle (sides	enter		7,490.00 0.00)	12,895.32	1,379.51	432,246.94	593,039.73	32° 11' 16.822678 N	04° 1' 57.307276 W
FTP/PPP-1v2 - CC BS - plan misses targ - Point			7,490.00 at 7561.07		1,332.20 4.60 TVD, -4			32° 9' 7.242599 N	04° 1' 58.283270 W
PI2 - CC BS Fed 302H - plan hits target c - Point	0.00	0.00	7,490.00	7,687.18	1,320.63	427,038.80	592,980.85	32° 10' 25.282912 N	04° 1' 58.161746 W
PI3 - CC BS Fed 302h - plan hits target c - Rectangle (sides	enter		7,490.00 00.00)	10,355.27	1,315.97	429,706.89	592,976.19	B2° 10' 51.687315 N	04° 1' 58.129254 W
PI1 - CC BS Fed 302h - plan misses targ - Point			7,490.00 t 12670.29	-,-	,	424,368.99 021.23 N, 1235.5	,	: 32° 9' 58.861423 N	04° 1' 58.180193 W

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	560.60	560.60	Salado		0.000	359.30	
	1,196.60	1,196.60	Castile		0.000	359.30	
	2,563.90	2,547.60	Base of Salt (BX)		0.000	359.30	
	2,701.93	2,679.60	Lamar		0.000	359.30	
	2,731.21	2,707.60	Bell Canyon		0.000	359.30	
	3,648.29	3,584.60	Cherry Canyon		0.000	359.30	
	4,939.73	4,819.60	Brushy Canyon		0.000	359.30	
	6,597.83	6,411.60	Bone Spring Lime		0.000	359.30	
	6,936.94	6,747.60	Upper Avalon Shale		0.000	359.30	
	7,561.07	7,324.60	1st Bone Spring Sand		0.000	359.30	



Project:

PhoenixPlanning Report



Database: USAEDMDB Company: Marathon Oil

Marathon Oil Permian LLC Eddy County, NM (NAD27-NME)

Site: Cobra Cobretti

Well: Cobra Cobretti BS Federal Com 302H

Wellbore: OH

Design: Plan 2 08-27-24

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Cobra Cobretti BS Federal Com 302H

RKB @ 2940.60usft (Cactus 171) RKB @ 2940.60usft (Cactus 171)

Grid

Minimum Curvature

n Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment
1,625.00	1,625.00	0.00	0.00	KOP, Begin 2.00°/100' Build
2,475.06	2,462.64	-24.57	122.76	Hold 17.00° Inc at 101.32° Azm
6,198.36	6,023.23	-238.20	1,190.26	Begin 2.00°/100' Drop & Turn
7,177.65	6,986.87	-206.31	1,331.97	KOP2, Begin 10.00°/100' Build
7,225.24	7,033.81	-198.56	1,331.96	FTP/PPP-1: 7225.24' MD, 7033.81' TVD
8,007.65	7,490.00	362.37	1,331.37	LP, Hold 90.00° Inc at 359.91° Azm
11,105.65	7,490.00	3,460.37	1,328.13	Begin 2.00°/100' Turn
11,355.48	7,490.00	3,709.88	1,316.98	Hold 354.94° Azm
12,157.94	7,490.00	4,509.22	1,246.25	Begin 2.00°/100' Turn
12,407.78	7,490.00	4,758.72	1,235.10	Hold 359.94° Azm
12,607.78	7,490.00	4,958.72	1,234.89	Begin 2.00°/100' Turn
12,857.81	7,490.00	5,208.45	1,245.53	Hold 4.94° Azm
13,644.24	7,490.00	5,991.95	1,313.26	Begin 2.00°/100' Turn
13,897.78	7,490.00	6,245.18	1,323.90	Hold 359.87° Azm
15,339.78	7,490.00	7,687.18	1,320.63	Begin 2.00°/100' Turn
15,341.27	7,490.00	7,688.68	1,320.63	Hold 359.90° Azm
18,007.87	7,490.00	10,355.27	1,315.97	Begin 2.00°/100' Turn
18,085.71	7,490.00	10,433.11	1,316.89	Hold 1.46° Azm
20,548.72	7,490.00	12,895.32	1,379.51	TD at 20548.72

MARATHON OIL PERMIAN, LLC. DRILLING AND OPERATIONS PLAN



WELL NAME & NUMBER:

COBRA COBRETTI BS FEDERAL COM 302H

LOCATION: SECTION 1 TOWNSHIP 25S RANGE 28E

EDDY COUNTY, NEW MEXICO

Section 1:

GEOLOGICAL FORMATIONS

Name of Surface Formation:PermianElevation:2917 feet

Estimated Tops of Important Geological Markers:

Formation	TVD (ft)	MD (ft)	Elevation (ft SS)	Lithologies	Mineral Resources	Producing Formation?
Rustler		27	2917	Anhydrite	Brine	No
Salado	573	600	2344	Salt/Anhydrite	Brine	No
Castile	1209	1236	1708	Salt/Anhydrite	Brine	No
Base of Salt (BX)	2560	2587	357	Salt/Anhydrite	Brine	No
Lamar	2692	2719	225	Sandstone/Shale	None	No
Bell Canyon	2720	2747	197	Sandstone	Oil	No
Cherry Canyon	3597	3624	-680	Sandstone	Oil	No
Brushy Canyon	4832	4859	-1915	Sandstone	Oil	No
Bone Spring Lime	6424	6451	-3507	Limestone	None	No
Upper Avalon Shale	6760	6787	-3843	Shale	Oil	Yes
1st Bone Spring Sand	7337	7364	-4420	Sandstone	Oil	Yes
2nd Bone Spring Carbonate	7588	7615	-4671	Limestone/Shale	None	No
2nd Bone Spring Sand	8166	8193	-5249	Sandstone	Oil	Yes
3rd Bone Spring Carbonate	8506	8533	-5589	Limestone	Oil	No
3rd Bone Spring Sand	9273	9300	-6356	Sandstone	Oil	Yes
Wolfcamp	9637	9664	-6720	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp A	9791	9818	-6874	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp B	10092	10119	-7175	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp C	10332	10359	-7415	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp D	10837	10864	-7920	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Strawn	11878	11905	-8961	Carbonates/Sands/Clays	Natural Gas	Possible

Section 2:

BLOWOUT PREVENTER TESTING PROCEDURE

Pressure Rating (PSI): 10M Rating Depth: 1000

Equipment: 13 5/8 BOP Annular (5,000 psi WP) and BOP Stack (10,000 psi WP) will be installed and tested before drilling all holes.

Requesting Variance?

Yes

Variance Request:

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.

Testing Procedure:

BOP/BOPE will be tested to 250 psi low and a high of 100% WP for the Annular and 5,000psi for the BOP Stacking before drilling the intermediate hole, 10,000psi for the BOP Stacking before drilling the production hole. Testing will be conducted by an independent service company per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the Equipment Description 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, full opening safety valve / inside BOP and choke lines and choke manifold. See attached schematics.

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 multibowl wellhead is being used. 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. See attached schematic.

Marathon Oil Permian LLC. Drilling & Operations Plan - Page 2 of 3

Section 3:		CASING PROGRAM															
String Type	Hole Size	Casing Size	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Weight (lbs/ft)	Grade	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	500	0	527	2917	2390	54.5	J55	BTC	5.22	1.81	BUOY	4.52	BUOY	4.52
Intermediate	12.25	9.625	0	7118	0	6926	2917	-4009	40	P110HC	ВТС	1.20	1.42	BUOY	2.44	BUOY	2.44
Production	8.75	5.5	0	20589	0	7530	2917	-4613	23	P110HC	TLW	2.53	1.26	BUOY	2.22	BUOY	2.22
	All casi	ing strings	will be test	ted in accor	rdance with	1 Onshore (Oil and Gas	Order #2 I	III.B.1.h				Safety	Factors wil	ll Meet or	Exceed	

Casing Condition: New
Casing Standard: API
Tapered String? No

Yes or No

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

Section 4:						CEME	NT PROG	RAM		
String Type	Lead/Tail	Top MD	Bottom MD	Quantity (sks)	Yield (ft³/sks)	Density (ppg)	Slurry Volume (ft³)	Excess (%)	Cement Type	Additives
Surface	Lead	0	350	166	2.12	12.5	353	25	Class C	Extender,Accelerator,LCM
Surface	Tail	350	500	99	1.32	14.8	130	25	Class C	Accelerator
Intermediate	Lead	0	6618	1203	2.18	12.4	2622	25	Class C	Extender,Accelerator,LCM
Intermediate	Tail	6618	7118	147	1.33	14.8	196	25	Class C	Retarder
Production	Tail	6818	20589	2629	1.68	13	4416	25	Class H	Retarder, Extender, Fluid Loss, Suspension Agent

Stage tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Stage tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Pilot Hole? No Plugging Procedure for Pilot Hole: N/A

Pilot Hole Depth: N/A KOP Depth: N/A

Plug Top	Plug Bottom	Excess (%)	Quantity (sx)	Density (ppg)	Yield (ft3/sks)	Water gal/sk	Slurry Description and Cement Type

Marathon Oil Permian LLC.

Drilling & Operations Plan - Page 3 of 3

Section 5: CIRCULATING MEDIUM

Mud System Type: Closed Will an air or gas system be used? No

Describe what will be on location to control well or mitigate other conditions:

The necessary mud products for additional weight and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized:

Losses or gains in the mud system will be monitored visually/manually as well as with an electronic PVT.

Circulating Medium Table:

Top Depth	Bottom Depth	Mud Type	Min. Weight (ppg)	Max Weight (ppg)
0	500	Water Based Mud	8.4	8.8
500	7118	Brine or Oil Based Mud	9.2	10.2
7118	20589	Oil Based Mud	10.5	12.5

Section 6:

TESTING, LOGGING, CORING

List of production tests including testing procedures, equipment and safety measures:

GR from TD to surface (horizontal well - vertical portion of hole)

List of open and cased hole logs run in the well:

GR while drilling from Intermediate casing shoe to TD.

Coring operation description for the well:

Run gamma-ray (GR) and corrected neutron log (CNL) or analogous to surface for future development of the area, one per shared well pad not to exceed 200' radial distance.

Section 7:	ANTICIPATED PRESSURE	
Anticipated Bottom Hole Pressure:	4895 PSI	
Anticipated Bottom Hole Temperature:	195 °F	
Anticipated Abnormal Pressure?	No	
Anticipated Abnormal Temperature?	No	

Potential Hazards:

H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. See attached H2S Contingency Plan.

Section 8: OTHER INFORMATION

Auxiliary Well Control and Monitoring Equipment:

A Kelly cock will be in the drill string at all times. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.

Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the BLM.

Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 30 days.

C 1	Ω
U- 1	02

Submit Electronically Via OCD Permitting

State of New Mexico Energy, Minerals, & Natural Resources Department OIL CONSERVATION DIVISION

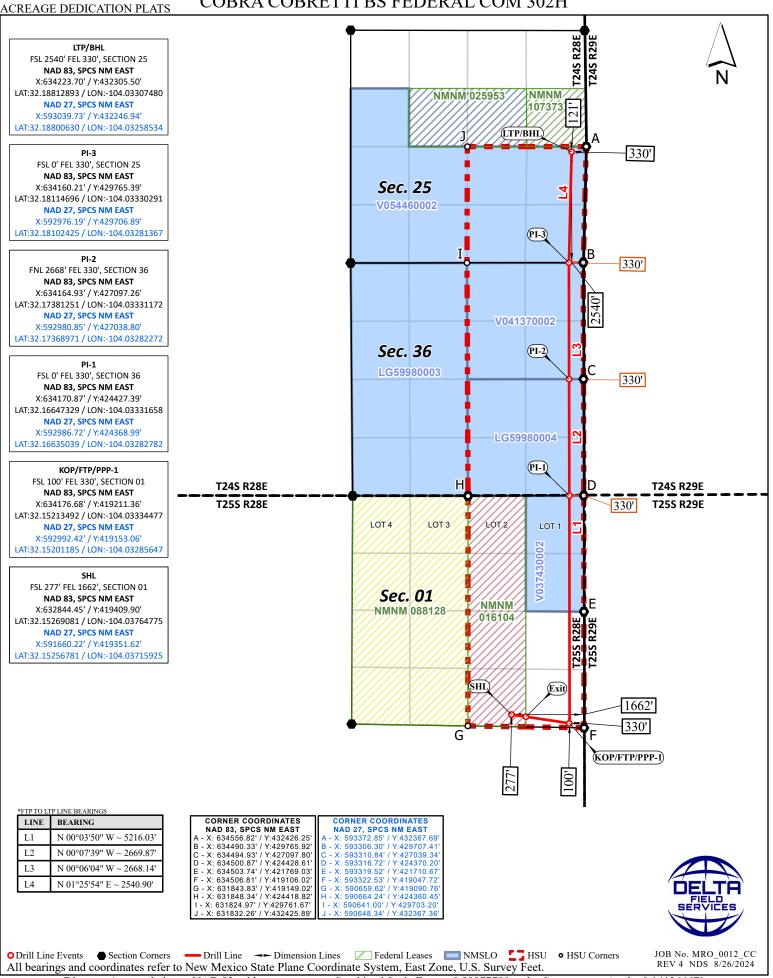
F	Revised July 9, 2024
	X Initial Submittal
ubmittal	Amended Report

Via O	CD Permiui	ng						Submittal	An	nended Report
								Type:	As	Drilled
			•		WELL LOCATIO	N INFORMATION		•		
API Nu	mber		Pool Code		WEEE ECCITIO	Pool Name				
;	30-015-552°	12		ϵ	54450	WI	LLOW LAKE; BO	NE SPRIN	JG	
Propert	y Code		Property Na				,,	Well Number		
	336005				COBRA COBRETTI	BS FEDERAL COM			302I	Н
OGRID	No.		Operator N	ame				Ground Lev	el Elevat	ion
	37209	8			MARATHON OI	L PERMIAN LLC			2917	7'
Surfac	e Owner:	State	Fee Tr	ibal X	Federal	Mineral Owner: X	State X Fee	Tribal X	Federal	
		<u> </u>			Cfo					
UL	Section	Township	Range	Lot	Ft. from N/S	Location Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
О	01	25S	28E		277' FSL	1662' FEL	32.15269081	-104.0376		EDDY
	01				277 152	1002 122	1 22.112 203 001	10.1007	.,,,	2221
T.11	La :	I T 1:	Lb	I T		ole Location	Li di Lampan	Longitude (11.000	
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)			County
I	25	24S	28E		2540' FSL	330' FEL	32.18812893	-104.0330	/480	EDDY
Dedicat	ted Acres	Infill or Defin	ing Well	Definin	g Well API	Overlapping Spacing Unit	(Y/N)	Consolidation	a Code	
8	80.00									
Order	Numbers:	•				Well setbacks are under	Common Ownership	: Yes	□ No	0
					Kiek Off I	Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
P	01	25S	28E		100' FSL	330' FEL	32.15213492	-104.0333	4477	EDDY
UL	Section	Torrachin	Damas	Lot	First Take Ft. from N/S	Point (FTP) Ft. from E/W	Latitude (NAD83)	Longitude (NA DON	Country
P		Township	Range	Lot			` ′			County
r	01	25S	28E		100' FSL	330' FEL	32.15213492	-104.0333	44 / /	EDDY
						Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (County
I	25	24S	28E		2540' FSL	330' FEL	32.18812893	-104.0330	7480	EDDY
Unitize	d Area or Area	of Uniform Inter	est				Ground Floor I	Elevation		
				Spacin	g Unit Type: X Horiz	ontal Vertical		2917	7'	
				•			'			
OPEF	RATOR CEI	RTIFICATIO	NS			SURVEYOR CERTI	FICATIONS			
					d complete to the best of my well, that this organization	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				
either o	owns a working	interest or unlea	ised mineral ir	terest in th	ne land including the	the best of my belief.	or under my supervision	, and that the s	ame is iri	ue una correct to
					this location pursuant to a all interest, or to a voluntary					
					tered by the division.		OVD P.S.	40.		
					ation has received the		I ME	100px		
					unleased mineral interest in the well's completed		SEN WILL	8\		
					from the division.		(21653	$\langle \rangle$		
1 Ad	pian Ca	wassukin	9/4/2	2024			12 10 2	hort &	_	
Signa	iture	varrubia	Date			0	100	12/		
		arrubias					CS IONAL "	SURY		
	ed Name	uriubias					ONAL			
						0	cn c : 1c			
		s@marath	onoil.co	m		Signature and Seal of				
Emai	l Address					Certificate Number	Date of S	urvey		

21653

AUGUST 26, 2024

COBRA COBRETTI BS FEDERAL COM 302H



District IV

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 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

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

☐ AMENDED REPORT

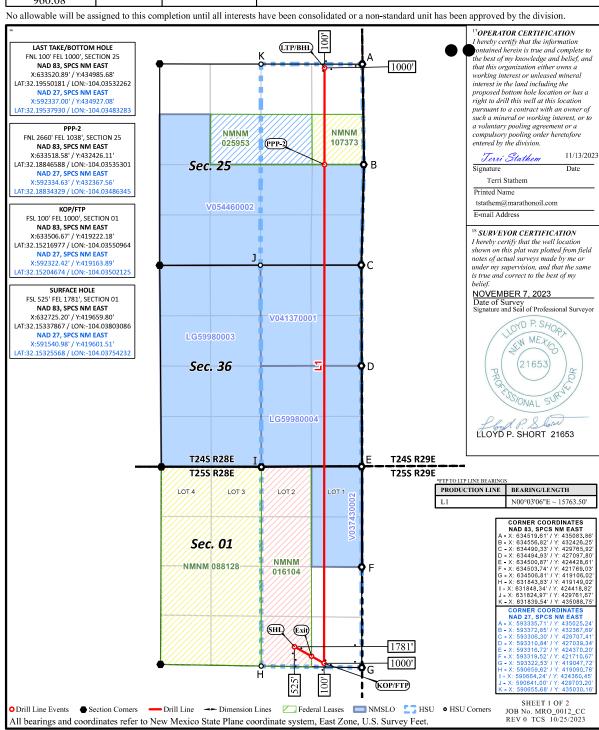
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015-55212		² Pool Code 64450	E SPRING	
⁴ Property Code 336005		COBRA COBRET	roperty Name TI BS FEDERAL COM	* Well Number 302H
⁷ OGRID No. 372098			operator Name OIL PERMIAN LLC	⁹ Elevation 2919'

¹⁰ Surface Location

О	1	25S	28E	525'	SOUTH	1781'	EAST	EDDY
			11 Botton	Hole Location	n If Different F	rom Surface	-	

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	25	24S	28E		100'	NORTH	1000'	EAST	EDDY
12 Dedicated Acres 960.08	13 Jo	int or Infill	14 Cons	olidation Code	15 Order No.				



District I
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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 390215

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	390215
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally. if cement is not circulated to surface during cementing operations, then a CBL is required.	10/10/2024