

Form 3160-3
(October 2024)FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM54113
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator MEWBOURNE OIL COMPANY		8. Lease Name and Well No. TOTO 7/10 FED COM 616H
3a. Address P O BOX 5270, HOBBS, NM 88241	3b. Phone No. (include area code) (575) 393-5905	9. API Well No. 30-015-57590
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENW / 1520 FSL / 520 FWL / LAT 32.6718371 / LONG -103.898401 At proposed prod. zone NENW / 1850 FSL / 100 FWL / LAT 32.6727258 / LONG -103.9680667		10. Field and Pool, or Exploratory HACKBERRY/Bone Spring
11. Sec., T. R. M. or Blk. and Survey or Area SEC 8/T19S/R31E/NMP		
14. Distance in miles and direction from nearest town or post office* 20 miles		12. County or Parish EDDY
13. State NM		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 185 feet	16. No of acres in lease 640.0	17. Spacing Unit dedicated to this well 640.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1012 feet	19. Proposed Depth 9476 feet / 30823 feet	20. BLM/BIA Bond No. in file FED: NMB106714150
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3468 feet	22. Approximate date work will start* 11/12/2025	23. Estimated duration 60 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) BRADLEY BISHOP / Ph: (575) 393-5905	Date 09/12/2025
Title Regulatory		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 11/21/2025
Title Assistant Field Manager Lands & Minerals		
Office Carlsbad Field Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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.

(Continued on page 2)

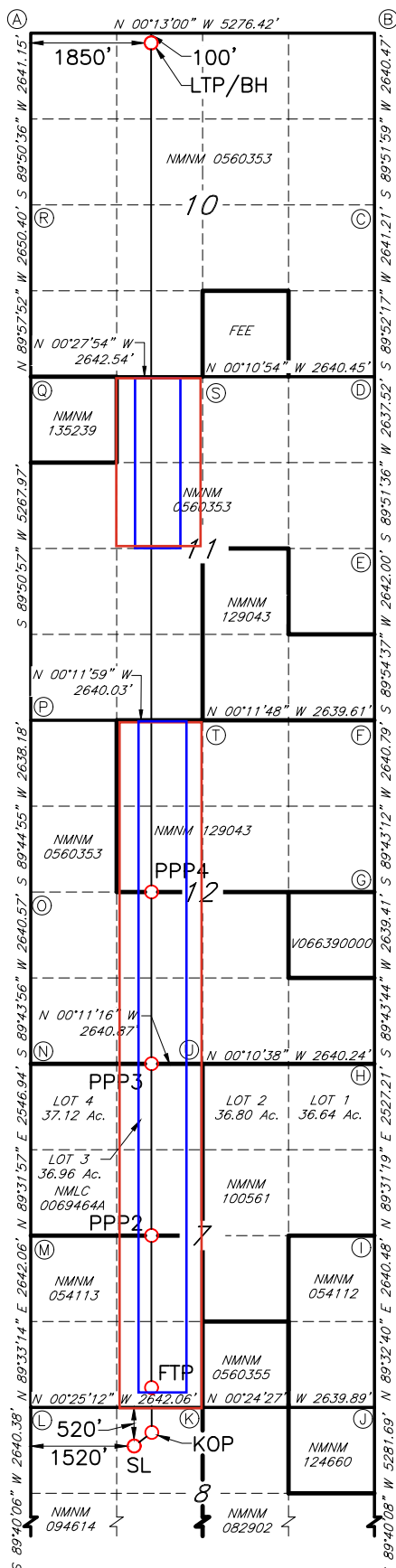
*(Instructions on page 2)



ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



TOTO 7/10 FED COM #616H

GEODETIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)
1520' FSL & 520' FWL (SEC.8)
N: 608419.6 - E: 675169.5

LAT: 32.6718371° N
LONG: 103.8984010° W

KICK OFF POINT (KOP)
1850' FSL & 473' FWL SEC.8
N: 608749.3 - E: 675120.1

LAT: 32.6727437° N
LONG: 103.8985574° W

FIRST TAKE POINT (FTP)
1850' FSL & 100' FWL SEC.7
N: 608745.8 - E: 674547.2

LAT: 32.6727405° N
LONG: 103.9004191° W

PROPOSED PENETRATION POINT 2 (PPP2)
1860' FSL & 2641' FWL SEC.12
N: 608735.6 - E: 672006.5

LAT: 32.6727407° N
LONG: 103.9086760° W

PROPOSED PENETRATION POINT 3 (PPP3)
1870' FSL & 0' FWL SEC.12
N: 608725.4 - E: 669467.0

LAT: 32.6727403° N
LONG: 103.9169290° W

PROPOSED PENETRATION POINT 4 (PPP4)
1872' FSL & 2639' FWL SEC.12
N: 608714.8 - E: 666827.6

LAT: 32.6727393° N
LONG: 103.9255065° W

LAST TAKE POINT/BOTTOM HOLE (BH)
1850' FSL & 100' FWL (SEC.10)
N: 608662.2 - E: 653731.6

LAT: 32.6727258° N
LONG: 103.9680667° W

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1994"
N: 606812.3 - E: 653638.6

L: FOUND BRASS CAP "1916"
N: 606897.0 - E: 674660.7

B: FOUND BRASS CAP "1916"
N: 612087.5 - E: 653618.7

M: FOUND BRASS CAP "1916"
N: 606876.5 - E: 672019.4

C: FOUND BRASS CAP "1916"
N: 612093.6 - E: 656258.5

N: FOUND BRASS CAP "1916"
N: 606855.7 - E: 669473.1

D: FOUND BRASS CAP "1916"
N: 612099.6 - E: 658899.1

O: FOUND BRASS CAP "1916"
N: 606843.3 - E: 666833.2

E: FOUND LIMESTONE ROCK
N: 612106.0 - E: 661536.0

P: FOUND BRASS CAP "1916"
N: 606831.8 - E: 664195.6

F: FOUND BRASS CAP "1916"
N: 612110.1 - E: 664177.4

Q: FOUND 1/2" REBAR
N: 606817.9 - E: 658928.9

G: FOUND BRASS CAP "1916"
N: 612123.0 - E: 666817.5

R: FOUND NAIL & WASHER
N: 606819.5 - E: 656279.1

H: FOUND BRASS CAP "1916"
N: 612135.5 - E: 669456.3

S: FOUND BRASS CAP "1916"
N: 609459.7 - E: 658907.5

I: FOUND BRASS CAP "1916"
N: 612156.6 - E: 671982.8

T: FOUND BRASS CAP "1916"
N: 609471.2 - E: 664186.4

J: FOUND BRASS CAP "1916"
N: 612177.6 - E: 674622.6

U: FOUND BRASS CAP "1916"
N: 609495.9 - E: 669464.4

K: FOUND BRASS CAP "1916"
N: 609538.4 - E: 674641.4

JOB #: LS23060578D1

WELL LOCATION INFORMATION			
API Number 30-015-57590	Pool Code 37920	Pool Name Leo; Bone Spring	
Property Code 338316	Property Name TOTO 7/10 FED COM		Well Number 616H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY		Ground Level Elevation 3469'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	

Bottom Hole Location									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	10	19S	30E		1850 FSL	100 FWL	32.6727258°N	103.9680667°W	EDDY

Kick Off Point (KOP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	8	19S	31E		1850 FSL	473 FWL	32.6727437°N	103.8985574°W	EDDY

First Take Point (FTP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	7	19S	31E		1850 FSL	100 FEL	32.6727405°N	103.9004191°W	EDDY

Last Take Point (LTP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	10	19S	30E		1850 FSL	100 FWL	32.6727258°N	103.9680667°W	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3496'
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I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

SURVEYOR CERTIFICATIONS

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Ryan McDaniel 9/10/25

Signature _____ Date _____

Ryan McDaniel

Printed Name _____

RyanMcDaniel@Mewbourne.com

Email Address

SURVEYOR CERTIFICATIONS

Signature and Seal of Professional Surveyor

Certificate Number

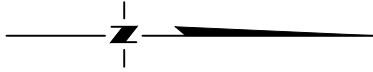
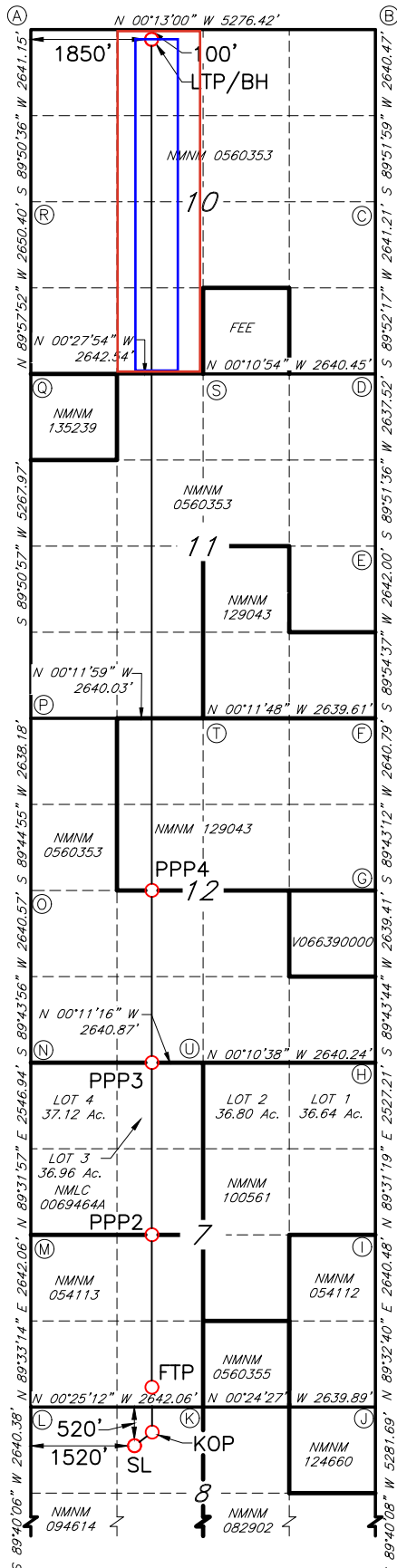
19680Date of Survey _____08/29/2024

Note: 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.

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TOTO 7/10 FED COM #616H

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N: 609495.9 - E: 669464.4

K: FOUND BRASS CAP "1916"
N: 609538.4 - E: 674641.4

JOB #: LS23060578D1

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
			Submittal Type:	☒ Initial Submittal
				☐ Amended Report
		☐ As Drilled		

WELL LOCATION INFORMATION

API Number 30-015-57590	Pool Code 5200	Pool Name BENSON; BONE SPRING
Property Code 338316	Property Name TOTO 7/10 FED COM	Well Number 616H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3469'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL L	Section 8	Township 19S	Range 31E	Lot	Ft. from N/S 1520 FSL	Ft. from E/W 520 FWL	Latitude 32.6718371°N	Longitude 103.8984010°W	County EDDY
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Bottom Hole Location

UL L	Section 10	Township 19S	Range 30E	Lot	Ft. from N/S 1850 FSL	Ft. from E/W 100 FWL	Latitude 32.6727258°N	Longitude 103.9680667°W	County EDDY
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Dedicated Acres 80	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code COM
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL L	Section 8	Township 19S	Range 31E	Lot	Ft. from N/S 1850 FSL	Ft. from E/W 473 FWL	Latitude 32.6727437°N	Longitude 103.8985574°W	County EDDY
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First Take Point (FTP)

UL I	Section 7	Township 19S	Range 31E	Lot	Ft. from N/S 1850 FSL	Ft. from E/W 100 FEL	Latitude 32.6727405°N	Longitude 103.9004191°W	County EDDY
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Last Take Point (LTP)

UL L	Section 10	Township 19S	Range 30E	Lot	Ft. from N/S 1850 FSL	Ft. from E/W 100 FWL	Latitude 32.6727258°N	Longitude 103.9680667°W	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3496'
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> Ryan McDaniel 9/10/25		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief.</i> 	
Signature Date		Signature and Seal of Professional Surveyor	
Ryan McDaniel		Robert M. Howell	
Printed Name		Certificate Number	Date of Survey
RyanMcDaniel@Mewbourne.com		19680	08/29/2024
Email Address			

Note: 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.

Page 5

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Mewbourne Oil Co. **OGRID:** 14744 **Date:** 9/11/25

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
TOTO 7/10 FED COM 616H		L 8 19S 31E	1520' FSL x 520' FWL	1500	3500	3500
				Y1-400 Y2-300 Y3-200	Y1-900 Y2-700 Y3-500	Y1-900 Y2-700 Y3-500

IV. Central Delivery Point Name: TOTO 7/10 FED COM 616H [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
TOTO 7/10 FED COM 616H		10/11/25	11/11/25	12/11/25	12/26/25	12/31/25

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

Page 8

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	<i>Bradley Bishop</i>
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	9/11/25
Phone:	575-393-5905
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

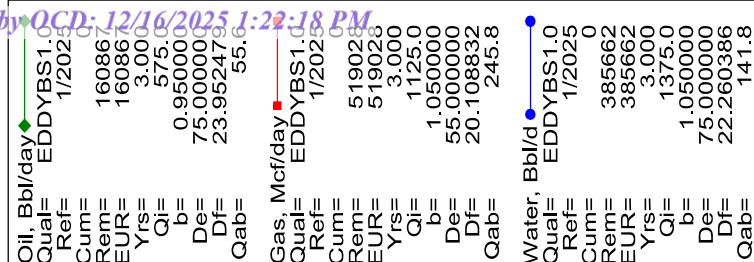
Mewbourne Oil Company

Natural Gas Management Plan – Attachment

- VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Mewbourne Oil Company (MOC) will take following actions to comply with the regulations listed in 19.15.27.8 :
- A. MOC will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. MOC will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.
 - B. All drilling operations will be equipped with a rig flare located at least 100 ft from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
 - C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flow will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, MOC will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. MOC will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
 - D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and reported appropriately.
 - E. MOC will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(1) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs in order to minimize the waste. Production storage tanks constructed after May 25, 2021 will be equipped with automatic gauging system. Flares constructed after May 25, 2021 will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. MOC will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
 - F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared or beneficially used during production operations, will be measured or estimated. MOC will install equipment to measure

the volume of natural gas flared from existing process piping or a flowline piped from equipment such as high pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021 that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, MOC will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

- VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.





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

Drilling Plan Data Report

11/21/2025

APD ID: 10400107057

Submission Date: 09/12/2025

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: TOTO 7/10 FED COM

Well Number: 616H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16838687	UNKNOWN	3468	28	28	OTHER : Top Soil	NONE	N
16838692	RUSTLER	2983	485	485	ANHYDRITE, DOLOMITE	USEABLE WATER	N
16838691	TOP SALT	2733	735	735	SALT	NONE	N
16838688	BOTTOM SALT	1453	2015	2015	SALT	NONE	N
16838695	YATES	1283	2185	2185	SANDSTONE	NATURAL GAS, OIL	N
16838696	SEVEN RIVERS	983	2485	2485	DOLOMITE	NATURAL GAS, OIL	N
16838693	QUEEN	253	3215	3215	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
16838689	GRAYBURG	-137	3605	3605	ANHYDRITE, DOLOMITE, SANDSTONE	NONE	N
16838684	SAN ANDRES	-372	3840	3840	DOLOMITE	NATURAL GAS, OIL	N
16838690	SAN ANDRES	-372	3840	3840	DOLOMITE	NATURAL GAS, OIL	N
16838686	CAPITAN REEF	-552	4020	4020	DOLOMITE, LIMESTONE	OIL, USEABLE WATER	N
16838701	CHERRY CANYON	-722	4190	4190	SANDSTONE	NATURAL GAS, OIL	N
16838685	BRUSHY CANYON	-1422	4890	4890	SANDSTONE	NATURAL GAS, OIL	N
16838702	BONE SPRING	-2997	6465	6465	LIMESTONE, SHALE	NATURAL GAS, OIL	N
16838703	BONE SPRING 1ST	-4417	7885	7885	SANDSTONE	NATURAL GAS, OIL	N
16838704	BONE SPRING 2ND	-4977	8445	8445	SANDSTONE	NATURAL GAS, OIL	N
16838705	BONE SPRING 3RD	-6007	9475	9475	SANDSTONE	NATURAL GAS, OIL	Y

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TOTO 7/10 FED COM**Well Number:** 616H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16838706	WOLFCAMP	-6417	9885	9885	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M**Rating Depth:** 30823

Equipment: Annular, Pipe Rams, Blind Rams, Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for hydrostatic test chart. Anchors are not required by manufacturer. Variance is requested to use a multi bowl wellhead. Variance is requested to perform break testing according to attached procedure. If a breaktesting variance is approved & incorporated, API Standard 53 will be incorporated and testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater, will be performed.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 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.

Choke Diagram Attachment:

5M_BOPE_Choke_Diagram_20250912093418.pdf

Flex_Line_Specs_API_16C_20250912093426.pdf

BOP Diagram Attachment:

5M_BOPE_Schematic_20250912093442.pdf

Vault_5K_with_7.625_csg_WH_20250912093711.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	Y	0	500	0	500	3468	2968	500	H-40	48	ST&C	3.44	7.74	DRY	13.42	DRY	22.54
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3385	0	3385	3468	83	3385	J-55	36	LT&C	1.13	1.96	DRY	3.72	DRY	4.63
3	PRODUCTIVE	8.75	7.625	NEW	API	Y	0	9107	0	9093	3430	-5625	9107	HCP-110	29.7	OTHER - GBCD	1.56	2.06	DRY	2.84	DRY	3.48

Operator Name: MEWBOURNE OIL COMPANY

Well Name: TOTO 7/10 FED COM

Well Number: 616H

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
4	PRODUCTION	8.5	5.5	NEW	API	Y	9107	30823	9093	9476	-5625	-6008	21716	HCP-110	20	OTHER - Talon	1.92	2.19	DRY	1.26	DRY	1.48

Casing Attachments

Casing ID: 1StringSURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375in_48__H40_STC_Csg_20250912095859.pdf

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625in_36__J55_LTC_Csg_20250912095024.pdf

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TOTO 7/10 FED COM**Well Number:** 616H**Casing Attachments****Casing ID:** 3 **String** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:**

Toto_7_10_Fed_Com_616H_Tapered_String_20251009105141.pdf

Casing Design Assumptions and Worksheet(s):

7.625in_29.7__HCP110_GBCD_Slim_Csg_20251009105020.pdf

Casing ID: 4 **String** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:**

Toto_7_10_Fed_Com_616H_Tapered_String_20251009105210.pdf

Casing Design Assumptions and Worksheet(s):

5.5in_20__HPP110_USS_Talon_HTQ_RD_20250912095144.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	NA	NA

SURFACE	Lead		0	313	210	2.12	12.5	450	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		313	500	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	3858	730	2.12	12.5	1550	25	CLASS C	SALT, GEL, EXTENDER, LCM

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TOTO 7/10 FED COM**Well Number:** 616H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		3858	4525	200	1.34	14.8	200	25	CLASS C	RETARDER
PRODUCTION	Lead		4325	1100 7	880	2.12	12.5	1870	25	H	SALT, GEL, EXTENDER, LCM, DEFOAMER
PRODUCTION	Tail		1100 7	3082 3	4700	1.18	15.6	5546	25	H	Retarder, fluid loss, defoamer

Section 5 - Circulating Medium

Mud System Type: Closed**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with 43 CFR 3172:****Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:**

Describe what will be on location to control well or mitigate other conditions: Formation integrity test will be performed per 43 CFR Part 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 3172.

Describe the mud monitoring system utilized: Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	500	SPUD MUD	8.4	8.6							
500	4525	SALT SATURATED	10	10.2							
4525	9107	WATER-BASED MUD	8.6	9.7							
9107	3082 3	OIL-BASED MUD	10	11.5							

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TOTO 7/10 FED COM**Well Number:** 616H

Section 6 - Test, Logging, Coring

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

No logs are planned based on well control or offset log information. Offset Well: Toto 7/10 Fed Com #618H

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

DIRECTIONAL SURVEY, MEASUREMENT WHILE DRILLING, MUD LOG/GEOLOGIC LITHOLOGY LOG,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5780**Anticipated Surface Pressure:** 3653**Anticipated Bottom Hole Temperature(F):** 140**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

H2S_Plan_20230725101650.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Toto_7_10_Fed_Com_616H_MOC_Dir_Plan_20250912102056.pdf

Toto_7_10_Fed_Com_616H_MOC_Dir_Plot_20250912102102.pdf

Other proposed operations facets description:

Variance is requested to perform offline cementing according to the attached procedure. R-111Q:
Mewbourne proposes performing Open Hole Cementing per R-111Q Guidelines if well is in Potash

Other proposed operations facets attachment:

TOTO_7_10_FED_COM__616H_NGMP_20250912102200.pdf

Toto_7_10_Fed_Com_616H_Drlg_Program_20251009105309.pdf

Other Variance request(s)?: Y**Other Variance attachment:**

Released to Imaging: 12/18/2025 10:05:36 AM
Mewbourne Break Testing Variance_20240927103945.pdf

Mewbourne Offline Cementing Variance_20240927103945.pdf

CONFIDENTIAL

[illegible]

Note: All valves & lines on choke manifold are 4" unless otherwise noted. Exact manifold configuration may vary.



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTTY/QR-5.7.1-28

No: 230826015

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd edition
Product Specification	3"×10000psi×60ft (18.29m)	Serial Number	7660144
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
Inspection Department	Q.C. Department	Inspection Date	2023.08.26
Rate of length change			
Standard requirements	At working pressure ,the rate of length change should not more than ±2%		
Testing result	10000psi (69.0MPa) ,Rate of length change 0.7%		
Hydrostatic testing			
Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leaks.		
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage		
Graph of pressure testing:			
Conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition		
Approver	Jiaolong Chen	Auditor	Huiling Dong
Inspector	Zhansheng Wang		



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTTY/QR-5.7.1-19B

No: LT2023-126-002

Customer Name	Austin Hose		
Product Name	Choke And Kill Hose		
Product Specification	3"×10000psi×60ft (18.29m)	Quantity	2PCS
Serial Number	7660143~7660144	FSL	FSL3
Temperature Range	-29℃~+121℃	Standard	API Spec 16C 3 rd edition
Inspection Department	Q.C. Department	Inspection date	2023.08.26

Inspection Items		Inspection results			
Appearance Checking		In accordance with API Spec 16C 3 rd edition			
Size and Lengths		In accordance with API Spec 16C 3 rd edition			
Dimensions and Tolerances		In accordance with API Spec 16C 3 rd edition			
End Connections: 4-1/16"×10000psi Integral flange for sour gas service		In accordance with API Spec 6A 21 st edition			
End Connections: 4-1/16"×10000psi Integral flange for sour gas service		In accordance with API Spec 17D 3 rd edition			
Hydrostatic Testing		In accordance with API Spec 16C 3 rd edition			
product Marking		In accordance with API Spec 16C 3 rd edition			
Inspection conclusion		The inspected items meet standard requirements of API Spec 16C 3 rd edition			
Remarks					
Approver	Jiaolong Chen	Auditor	Huiling Dong	Inspector	Zhansheng Wang



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF CONFORMANCE

No:LT230826016

Product Name: Choke And Kill Hose

Product Specification: 3"×10000psi×60ft (18.29m)

Serial Number: 7660143~7660144

End Connections: 4-1/16"×10000psi Integral flange for sour gas service

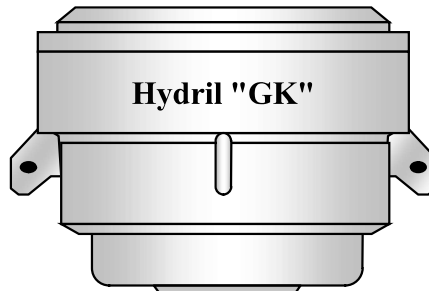
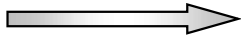
The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD . in Aug 2023, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Aug 26, 2023. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3rd edition .

QC Manager:

Jiaolong Chen

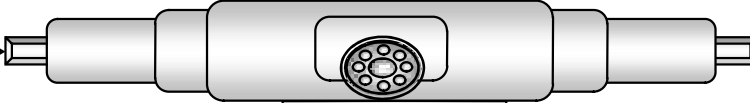
Date:Aug 26, 2023

Hydril "GK"
13 5/8" 5M

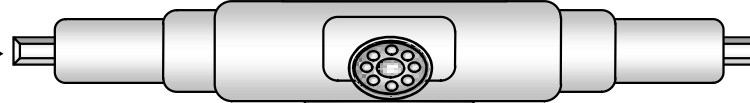


Hydril "GK"

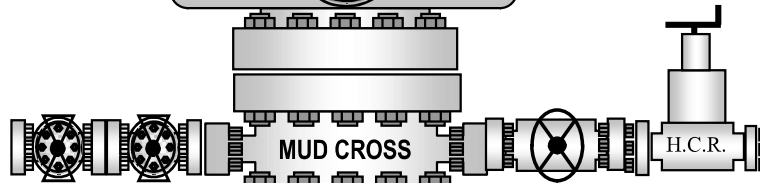
Cameron Type U
13 5/8" 5M



4 1/2" x 5 7/8" VBR

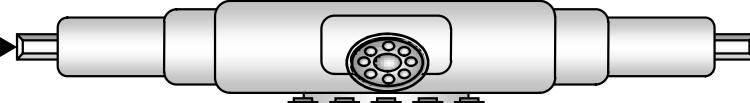


BLIND RAMS



MUD CROSS

H.C.R.



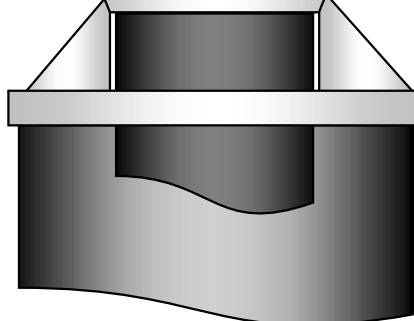
4 1/2" x 5 7/8" VBR

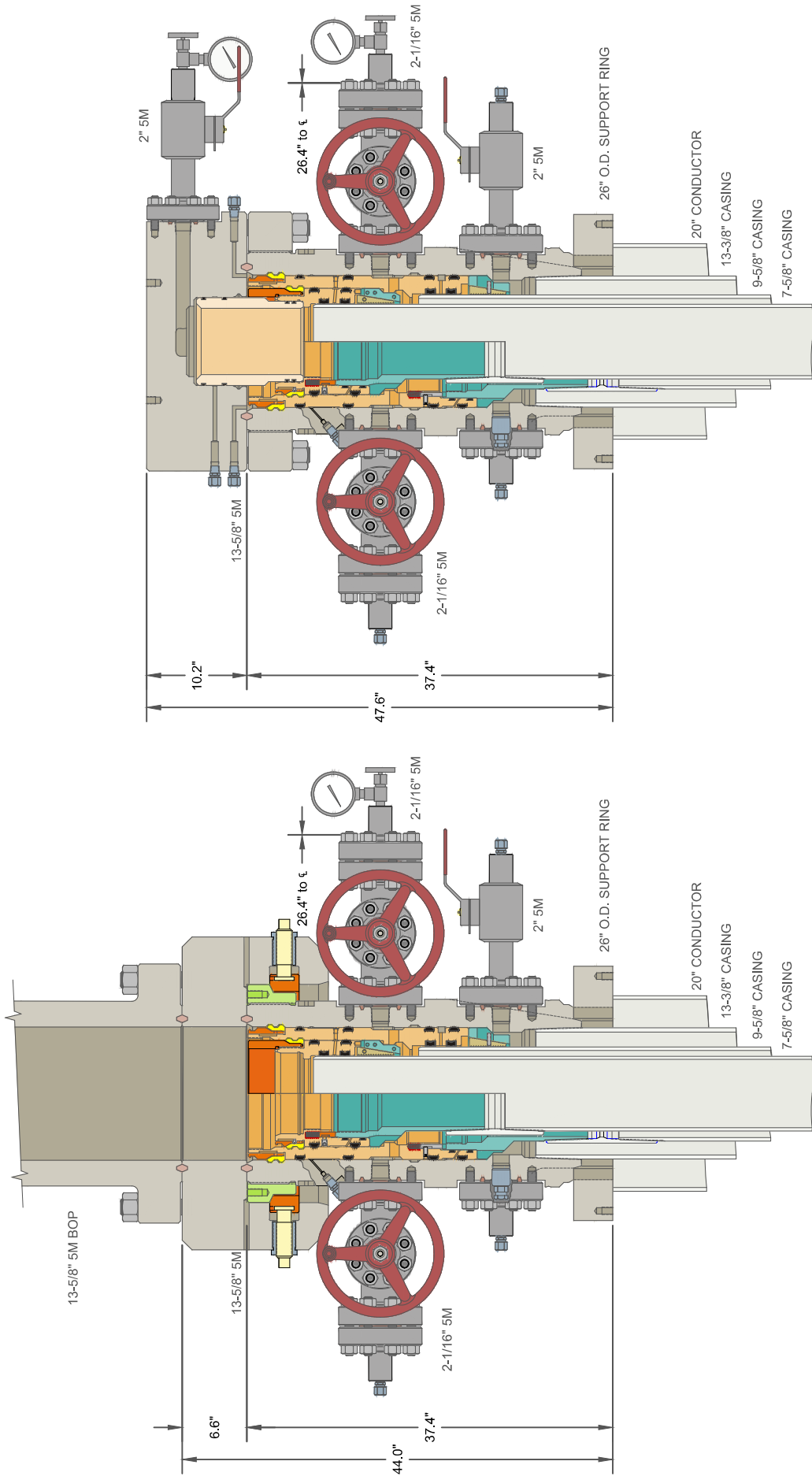


13 5/8" 5M

13 5/8" 5M

13 5/8" 5M





20" X 13-3/8" X 9-5/8" X 7-5/8" 5/10M RSH-2N WELLHEAD ASSEMBLY,
WITH TA CAP

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				REVIEWED BY:	NC	Rev.	Sht. 1 of 1
				APPROVED BY:		DATE:	3/3/2025

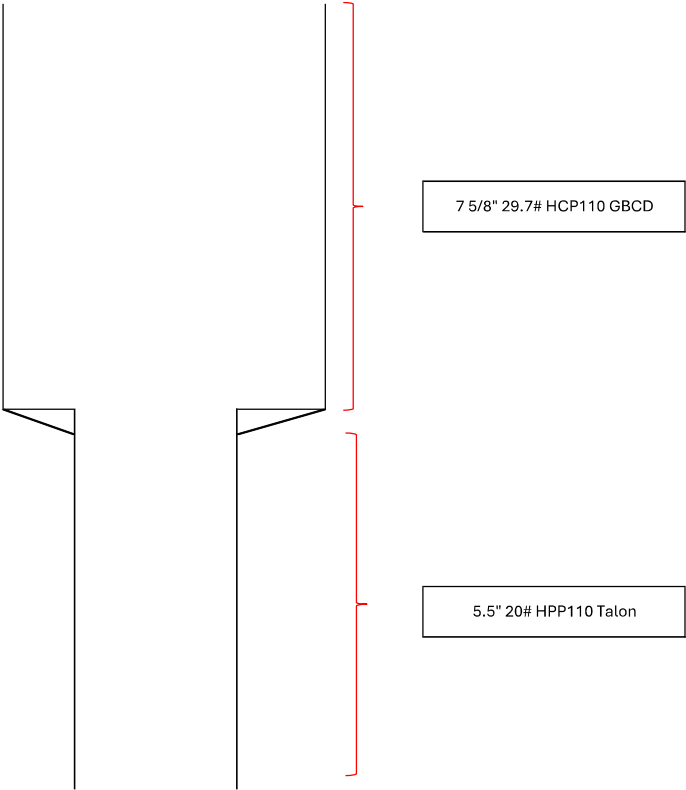
Mewbourne Oil Company, Toto 7/10 Fed Com 616H
Sec 8, T19S, R31E
SHL: 1520' FSL & 520' FWL (Sec 8)
BHL: 1850' FSL & 100' FWL (Sec 10)

Casing Design A

Hole Size	From	To	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
8.75	0'	9107'	7 5/8" 29.7# HCP110 GBCD				1.56	2.06	2.84	3.48
8.5	9107'	30823'	5.5" 20# HPP110 Talon				1.92	2.19	1.26	1.48

Casing Design B

Hole Size	From	To	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
8.75	0'	10007'	7 5/8" 29.7# HCP110 GBCD				1.47	1.94	2.59	3.16
8.5	10007'	40830'	5.5" 20# HPP110 Talon				1.92	2.19	1.32	1.54



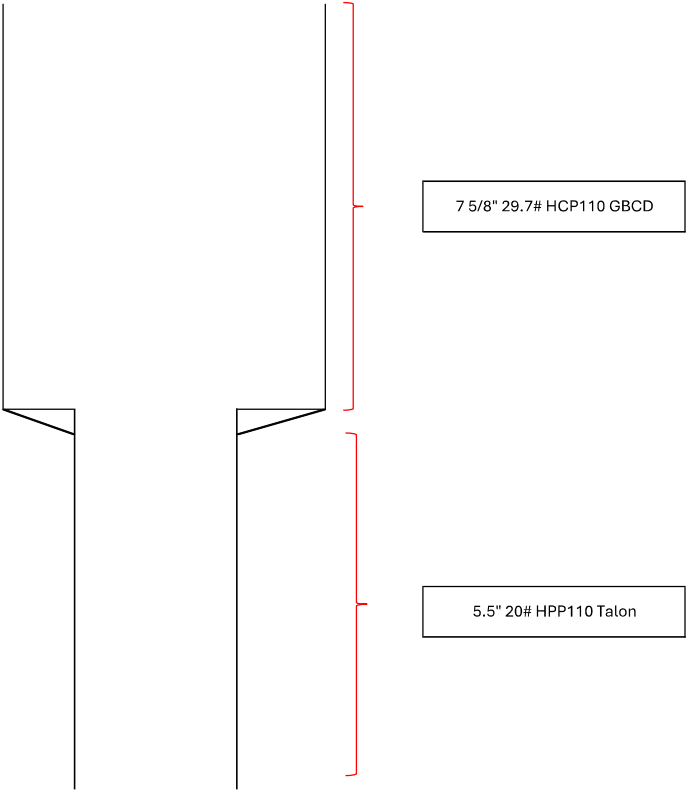
Mewbourne Oil Company, Toto 7/10 Fed Com 616H
Sec 8, T19S, R31E
SHL: 1520' FSL & 520' FWL (Sec 8)
BHL: 1850' FSL & 100' FWL (Sec 10)

Casing Design A

Hole Size	From	To	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
8.75	0'	9107'	7 5/8" 29.7# HCP110 GBCD				1.56	2.06	2.84	3.48
8.5	9107'	30823'	5.5" 20# HPP110 Talon				1.92	2.19	1.26	1.48

Casing Design B

Hole Size	From	To	Csg. Size	#/ft	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
8.75	0'	10007'	7 5/8" 29.7# HCP110 GBCD				1.47	1.94	2.59	3.16
8.5	10007'	40830'	5.5" 20# HPP110 Talon				1.92	2.19	1.32	1.54





Casing Performance Data Sheet
Manufactured to API 5CT
With GB CD Slim Connection

Grade	P110 HC
OD	7.625"
Nominal Wall Thickness	0.375"
Nominal Weight, T&C	29.700 lb/ft
Nominal Weight, PE	29.060 lb/ft
Nominal ID	6.875"
Standard Drift	6.750"

Performance Properties

Collapse Rating	6,700 psi
Internal Pressure Yield	9,460 psi
Pipe body Tension Yield	940,000 lbs

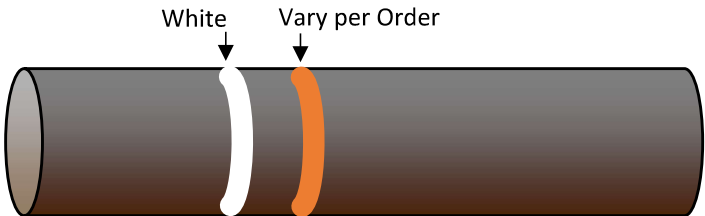
Connection Performance per GB

GB CD Slim Hole 7.900 COUPLING GEOMETRY					
Coupling OD (in.)	7.900	Makeup Loss (in.)	4.8125		
Coupling Length (in.)	9.625	Critical Cross-Sect. (in. ²)	6.721		

GB CD Slim Hole 7.900 CONNECTION PERFORMANCE RATINGS/EFFICIENCIES					
Material Specification	API P-110	Min. Yield Str. (psi)	110,000	Min. Ultimate Str. (psi)	125,000
Tension		Efficiency		Bending	
			Gas	Liquid***	
Tension OD Turn (kips)	776	Internal Pressure (%)	83%	100%	Build Rate to Yield (°/100 ft)
Thread Str. (kips)	794	External Pressure (%)	100%		59.3
Min. Tension Yield (kips)	702	Tension (%)	85%		Yield Torque
Min. Tension Ult. (kips)	798	Compression (%)	85%		
Joint Str. (kips)	794	Ratio of Areas (Cplg/Pipe)	0.79		
		Ratio of Areas (Cplg/OD Turn)	0.95		48,860

MAKEUP TORQUE					
Min. MU Tq. (ft-lbs)	10,000	Max. MU Tq. (ft-lbs)	20,000	Running Tq. (ft-lbs)	See GBC RP
				Max. Operating Tq. (ft-lbs)*	46,410

Color Code





API LTC

Coupling	Pipe Body
Grade: J55 (Casing)	Grade: J55 (Casing)
Body: Bright Green	1st Band: Bright Green
1st Band: White	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	9.625 in.	Wall Thickness	0.352 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry		Performance	
Nominal OD	9.625 in.	Drift	8.765 in.
Wall Thickness	0.352 in.	Plain End Weight	34.89 lb/ft
Nominal Weight	36 lb/ft	OD Tolerance	API
Nominal ID	8.921 in.		
		SMYS	55,000 psi
		Min UTS	75,000 psi
		Body Yield Strength	564 x1000 lb
		Min. Internal Yield Pressure	3520 psi
		Collapse Pressure	2020 psi
		Max. Allowed Bending	26 °/100 ft

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	453 x1000 lb	Minimum Torque	3400 ft-lb
Connection OD	10.625 in.	Coupling Face Load	433 x1000 lb	Optimum Torque	4530 ft-lb
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	3520 psi	Maximum Torque	5660 ft-lb

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations. For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations. Couplings OD are shown according to current API 5CT 10th Edition.

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U. S. Steel Tubular Products

5.500" 20.00lb/ft (0.361" Wall) P110 HP USS-TALON HTQ™ RD

8/10/2024 7:28:17 PM

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	125,000	--	psi	--
Maximum Yield Strength	140,000	--	psi	--
Minimum Tensile Strength	130,000	--	psi	--
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		--
Outside Diameter	5.500	5.900	in.	--
Wall Thickness	0.361	--	in.	--
Inside Diameter	4.778	4.778	in.	--
Standard Drift	4.653	4.653	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	20.00	--	lb/ft	--
Plain End Weight	19.83	--	lb/ft	--
SECTION AREA	Pipe	USS-TALON HTQ™ RD		--
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		--
Minimum Collapse Pressure	13,150	13,150	psi	--
Minimum Internal Yield Pressure	14,360	14,360	psi	--
Minimum Pipe Body Yield Strength	729,000	--	lb	--
Joint Strength	--	729,000	lb	--
Compression Rating	--	729,000	lb	--
Reference Length	--	24,300	ft	[5]
Maximum Uniaxial Bend Rating	--	104.2	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		--
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	18,400	ft-lb	[4]
Maximum Make-Up Torque	--	21,400	ft-lb	[4]
Maximum Operating Torque	--	44,400	ft-lb	[4]

UNCONTROLLED

Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
3. Uniaxial bend rating shown is structural only.
4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
6. Coupling must meet minimum mechanical properties of the pipe.

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API STC

Coupling	Pipe Body
Grade: H40	Grade: H40
Body: -	1st Band: Black
1st Band: Black	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	13.375 in.	Wall Thickness	0.330 in.	Grade	H40
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry		Performance	
Nominal OD	13.375 in.	Drift	12.559 in.
Wall Thickness	0.330 in.	Plain End Weight	46.02 lb/ft
Nominal Weight	48 lb/ft	OD Tolerance	API
Nominal ID	12.715 in.		
		SMYS	40,000 psi
		Min UTS	60,000 psi
		Body Yield Strength	541 x1000 lb
		Min. Internal Yield Pressure	1730 psi
		Collapse Pressure	740 psi
		Max. Allowed Bending	14 °/100 ft

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	322 x1000 lb	Minimum Torque	2420 ft-lb
Connection OD	14.375 in.	Coupling Face Load	377 x1000 lb	Optimum Torque	3220 ft-lb
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	1730 psi	Maximum Torque	4030 ft-lb

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.
Couplings OD are shown according to current API 5CT 10th Edition.
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Mewbourne Oil Company, Toto 7/10 Fed Com 616H
Sec 8, T19S, R31E
SHL: 1520' FSL 520' FWL (Sec 8)
BHL: 1850' FSL 100' FWL (Sec 10)

Well Location		GL: 3468'									
Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 1520' FSL & 520' FWL (Sec 8)	NMNM094614	NENW	8	19S	31E	Eddy	32.6718371	- 103.8984010	0'	0'
KOP	KOP: 1850' FSL & 473' FWL (Sec 8)	NMNM094614	NENW	8	19S	31E	Eddy	32.6727437	- 103.8985574	9,093'	9,107'
FTP/LP	FTP/LP: 1850' FSL & 100' FEL (Sec 7)	NMNM054113	SESW	7	19S	31E	Eddy	32.6727405	- 103.9004191	9,666'	10,007'
PPP2	PPP2: 1850' FSL & 2642' FEL (Sec 7)	NMLC0069464A	SESW	7	19S	31E	Eddy	32.6727407	- 103.9086760	9,642'	12,547'
PPP3	PPP3: 1850' FSL & 0' FEL (Sec 12)	NMNM0560353	SESW	12	19S	30E	Eddy	32.6727403	- 103.9169290	9,619'	15,097'
PPP4	PPP4: 1850' FSL & 2638' FWL (Sec 12)	NMNM129043	NESW	12	19S	30E	Eddy	32.6727393	- 103.9255065	9,595'	17,727'
BHL	BHL: 1850' FSL & 100' FWL (Sec 10)	NMNM0560353	NENW	10	19S	30E	Eddy	32.6727258	- 103.9680667	9,476'	30,823'

GEOLOGY							
Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler	485'	Dolomite/Anhydrite	Usable Water	Delaware (Lamar)			
Castile				Bell Canyon			
Salt Top	735'	Salt	None	Cherry Canyon	4190'	Sandstone	Oil/Natural Gas
Marker Bed 126				Manzanita Marker			
Salt Base	2015'	Salt	None	Basal Brushy Canyon	4890'	Sandstone	Oil/Natural Gas
Yates	2185'	Sandstone	Oil/Natural Gas	Bone Spring	6465'	Limestone/Shale	Oil/Natural Gas
Seven Rivers	2485'	Dolomite	Oil/Natural Gas	1st Bone Spring Carbonate			
Queen	3215'	Sandstone/Dolomite	Oil/Natural Gas	1st Bone Spring Sand	7885'	Sandstone	Oil/Natural Gas
Capitan	4020'	Limestone/Dolomite	Usable Water	2nd Bone Spring Carbonate	8145'	Limestone	Oil/Natural Gas
Grayburg	3605'	Dolomite/Sandstone/Anhydrite	None	2nd Bone Spring Sand	8445'	Sandstone	Oil/Natural Gas
San Andres	3840'	Dolomite	Oil/Natural Gas	3rd Bone Spring Carbonate	9065'	Limestone	Oil/Natural Gas
Glorietta				3rd Bone Spring Sand	9475'	Sandstone	Oil/Natural Gas
Yeso				Wolfcamp	9885'	Shale/Sandstone/Limestone	Oil/Natural Gas

Casing Program Design A						BLM Minimum Safety Factors		1,125	1,0	1.6 Dry	1.6 Dry
										1.8 Wet	1.8 Wet
Casing String	Hole Diameter (in)	Top MD	Top TVD	Bottom MD	Bottom TVD	Casing Description	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension	
Surface	17.5"	0'	0'	500'	500'	13.375" 48# H40 STC	3.44	7.74	13.42	22.54	
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96	3.72	4.63	
Production	8.75"	0'	0'	9107'	9093'	7 5/8" 29.7# HCP110 GBCD	1.56	2.06	2.84	3.48	
Production	8.5"	9107'	9093'	30823'	9476'	5.5" 20# HPP110 Talon	1.92	2.19	1.26	1.48	

All casing strings will be tested in accordance with 43 CFR Part 3172. Must have table for contingency casing.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	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-Q 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 an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
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?	

Mewbourne Oil Company, Toto 7/10 Fed Com 616H
Sec 8, T19S, R31E
SHL: 1520' FSL 520' FWL (Sec 8)
BHL: 1850' FSL 100' FWL (Sec 10)

Design A - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft ³ /sack)	Depth (MD)	Volume (ft ³)	% Excess	Slurry Description
13.375 in	LEAD	210	12.5	2.12	0' - 313'	450	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	313' - 500'	268		Class C: Retarder
9.625 in	LEAD	730	12.5	2.12	0' - 3858'	1550	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3858' - 4525'	268		Class C: Retarder
7.625 in - 5.5 in	LEAD	880	12.5	2.12	4325' - 11007'	1870	25%	Class H: Salt, Gel, Extender, LCM, Defoamer
	TAIL	4700	15.6	1.18	11007' - 30823'	5546		Class H: Retarder, Fluid Loss, Defoamer

Pressure Control Equipment

BOP installed and tested before drilling hole (in):	Size (in)	System Rated WP	Type		Tested to:	Rating Depth
12.25	13.375	5M	Annular	X	2500#/3500#	30,823'
		5M	Blind Ram	X	5000#	
			Pipe Ram	X		
			Double Ram			
			Other*			

*Specify if additional ram is utilized.

Equipment: Annular, Pipe Rams, Blind Rams, Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Variance Request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for hydrostatic test chart. Anchors are not required by manufacturer. Variance is requested to use a multi bowl wellhead. Variance is requested to perform break testing according to attached procedure. If a breaktesting variance is approved & incorporated, API Standard 53 will be incorporated and testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater, will be performed.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 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.

Y	Formation integrity test will be performed per 43 CFR Part 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 3172.
N	Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack.

Mud Program

Depth (MD)	Mud Wt (ppg)	Mud Type
0' - 500'	8.4 - 8.6	Fresh Water
500' - 4525'	10.0 - 10.2	Brine
4525' - 9107'	8.6 - 9.7	Cut-Brine
9107' - 30823'	10.0 - 11.5	OBM

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

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

Mewbourne Oil Company, Toto 7/10 Fed Com 616H
Sec 8, T19S, R31E
SHL: 1520' FSL 520' FWL (Sec 8)
BHL: 1850' FSL 100' FWL (Sec 10)

Logging and Testing Procedures

Logging, Coring and Testing.	
N	Will run GR/CNL from KOP (9107') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No logs are planned based on well control or offset log information. Offset Well: Toto 7/10 Fed Com #618H
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

—	Caliper	—	Cement Bond Log	—	CNL/FDC
—	Compensated Densilog	—	Compensated Neutron Log	—	Computer Generated Log
—	Dip Meter Log	—	Directional Survey	—	Dual Induction/Microresistivity
—	Dual Lateral Log/Microspherically Focused	—	Electric Log	—	Formation Density Compensated Log
—	Gamma Ray Log	—	Measurement While Drilling	—	Mud Log/Geological Lithology Log
—	Other	—	Porosity-Resistivity Log	—	Sidewall Neutron Log
—	Sonic Log	—	Spontaneous Potential Log	—	Temperature Log

Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5780 psi
BH Temperature	140
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole.
Weighted mud for possible over-pressure in Wolfcamp formation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present
X	H2S Plan attached

Mewbourne Oil Company, Toto 7/10 Fed Com 616H
Sec 8, T19S, R31E
SHL: 1520' FSL 520' FWL (Sec 8)
BHL: 1850' FSL 100' FWL (Sec 10)

Other facets of operation

Mewbourne Oil Company requests approval to implement additional designs as described below &/or in other attachments. BLM will be notified of elected design. Company will not introduce any additives that contain PFAS chemicals in the completion or recompletion of the well.	Mewbourne Oil
--	---------------

Offline Cementing Variance: Variance is requested to perform offline cementing according to the attached procedure. R-111Q: Mewbourne proposes performing Open Hole Cementing per R-111Q Guidelines if well is in Potash.

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
Casing String	Hole Diameter (in)	Top MD	Top TVD	Bottom MD	Bottom TVD	Casing Description	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	500'	500'	13.375" 48# H40 STC	3.44	7.74	13.42	22.54
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96	3.72	4.63
Production	8.75"	0'	0'	10007'	9666'	7 5/8" 29.7# HCP110 GBCD	1.47	1.94	2.59	3.16
Production	8.5"	10007'	9666'	40830'	9476'	5.5" 20# HPP110 Talon	1.92	2.19	1.32	1.54

All casing strings will be tested in accordance with 43 CFR Part 3172. Must have table for contingency casing.

Is casing new? If used, attach certification as required in Onshore Order #1	Y or N
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	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-Q 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 an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
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?	

Design B - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft ³ /sack)	Depth (MD)	Volume (ft ³)	% Excess	Slurry Description
13.375 in	LEAD	210	12.5	2.12	0' - 313'	450	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	313' - 500'	268		Class C: Retarder
	LEAD	730	12.5	2.12	0' - 3858'	1550	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3858' - 4525'	268		Class C: Retarder
7.625 in - 5.5 in	LEAD	710	12.5	2.12	4325' - 9830'	1510	25%	Class H: Salt, Gel, Extender, LCM, Defoamer
	TAIL	4880	15.6	1.18	9830' - 30823'	5758		Class H: Retarder, Fluid Loss, Defoamer

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Toto 7/10 Fed Com #616H

Sec 08, T19S, R31E

SHL: 1520' FSL & 520' FWL (Sec 8)

BHL: 1850' FSL & 100' FWL (Sec 10)

Plan: Design #1

Standard Planning Report

10 September, 2025

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Toto 7/10 Fed Com #616H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Toto 7/10 Fed Com #616H	North Reference:	Grid
Well:	Sec 08, T19S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1850' FSL & 100' FWL (Sec 10)		
Design:	Design #1		

Project	Eddy County, New Mexico NAD 83		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Toto 7/10 Fed Com #616H		
Site Position:		Northing:	608,419.60 usft
From:	Map	Easting:	675,169.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.6718370
		Longitude:	-103.8984011

Well	Sec 08, T19S, R31E		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,496.0 usft
Grid Convergence:	0.23 °	Ground Level:	3,469.0 usft
		Latitude:	32.6718370
		Longitude:	-103.8984011

Wellbore	BHL: 1850' FSL & 100' FWL (Sec 10)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.33	60.46	48,469.83299292

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	270.65

Plan Survey Tool Program	Date	9/10/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	30,823.7	Design #1 (BHL: 1850' FSL & 100	

Plan Sections										
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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,247.8	4.96	351.48	5,247.5	10.6	-1.6	2.00	2.00	0.00	351.48	
8,859.3	4.96	351.48	8,845.5	319.1	-47.8	0.00	0.00	0.00	0.00	
9,107.1	0.00	0.00	9,093.0	329.7	-49.4	2.00	-2.00	0.00	180.00	KOP: 1850' FSL & 47:
10,012.5	90.52	269.77	9,666.0	327.3	-627.7	10.00	10.00	0.00	-90.23	
30,823.7	90.52	269.77	9,476.0	242.6	-21,437.9	0.00	0.00	0.00	0.00	BHL: 1850' FSL & 100

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Toto 7/10 Fed Com #616H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Toto 7/10 Fed Com #616H	North Reference:	Grid
Well:	Sec 08, T19S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1850' FSL & 100' FWL (Sec 10)		
Design:	Design #1		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 1520' FSL & 520' FWL (Sec 8)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	2.00	351.48	5,100.0	1.7	-0.3	0.3	2.00	2.00	0.00
5,200.0	4.00	351.48	5,199.8	6.9	-1.0	1.1	2.00	2.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Toto 7/10 Fed Com #616H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Toto 7/10 Fed Com #616H	North Reference:	Grid
Well:	Sec 08, T19S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1850' FSL & 100' FWL (Sec 10)		
Design:	Design #1		

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)	
5,247.8	4.96	351.48	5,247.5	10.6	-1.6	1.7	2.00	2.00	0.00	
5,300.0	4.96	351.48	5,299.5	15.1	-2.3	2.4	0.00	0.00	0.00	
5,400.0	4.96	351.48	5,399.1	23.6	-3.5	3.8	0.00	0.00	0.00	
5,500.0	4.96	351.48	5,498.7	32.1	-4.8	5.2	0.00	0.00	0.00	
5,600.0	4.96	351.48	5,598.4	40.7	-6.1	6.6	0.00	0.00	0.00	
5,700.0	4.96	351.48	5,698.0	49.2	-7.4	7.9	0.00	0.00	0.00	
5,800.0	4.96	351.48	5,797.6	57.8	-8.7	9.3	0.00	0.00	0.00	
5,900.0	4.96	351.48	5,897.3	66.3	-9.9	10.7	0.00	0.00	0.00	
6,000.0	4.96	351.48	5,996.9	74.8	-11.2	12.1	0.00	0.00	0.00	
6,100.0	4.96	351.48	6,096.5	83.4	-12.5	13.4	0.00	0.00	0.00	
6,200.0	4.96	351.48	6,196.1	91.9	-13.8	14.8	0.00	0.00	0.00	
6,300.0	4.96	351.48	6,295.8	100.5	-15.1	16.2	0.00	0.00	0.00	
6,400.0	4.96	351.48	6,395.4	109.0	-16.3	17.6	0.00	0.00	0.00	
6,500.0	4.96	351.48	6,495.0	117.6	-17.6	18.9	0.00	0.00	0.00	
6,600.0	4.96	351.48	6,594.6	126.1	-18.9	20.3	0.00	0.00	0.00	
6,700.0	4.96	351.48	6,694.3	134.6	-20.2	21.7	0.00	0.00	0.00	
6,800.0	4.96	351.48	6,793.9	143.2	-21.5	23.1	0.00	0.00	0.00	
6,900.0	4.96	351.48	6,893.5	151.7	-22.7	24.5	0.00	0.00	0.00	
7,000.0	4.96	351.48	6,993.1	160.3	-24.0	25.8	0.00	0.00	0.00	
7,100.0	4.96	351.48	7,092.8	168.8	-25.3	27.2	0.00	0.00	0.00	
7,200.0	4.96	351.48	7,192.4	177.4	-26.6	28.6	0.00	0.00	0.00	
7,300.0	4.96	351.48	7,292.0	185.9	-27.9	30.0	0.00	0.00	0.00	
7,400.0	4.96	351.48	7,391.6	194.4	-29.1	31.3	0.00	0.00	0.00	
7,500.0	4.96	351.48	7,491.3	203.0	-30.4	32.7	0.00	0.00	0.00	
7,600.0	4.96	351.48	7,590.9	211.5	-31.7	34.1	0.00	0.00	0.00	
7,700.0	4.96	351.48	7,690.5	220.1	-33.0	35.5	0.00	0.00	0.00	
7,800.0	4.96	351.48	7,790.2	228.6	-34.3	36.8	0.00	0.00	0.00	
7,900.0	4.96	351.48	7,889.8	237.2	-35.5	38.2	0.00	0.00	0.00	
8,000.0	4.96	351.48	7,989.4	245.7	-36.8	39.6	0.00	0.00	0.00	
8,100.0	4.96	351.48	8,089.0	254.2	-38.1	41.0	0.00	0.00	0.00	
8,200.0	4.96	351.48	8,188.7	262.8	-39.4	42.3	0.00	0.00	0.00	
8,300.0	4.96	351.48	8,288.3	271.3	-40.7	43.7	0.00	0.00	0.00	
8,400.0	4.96	351.48	8,387.9	279.9	-41.9	45.1	0.00	0.00	0.00	
8,500.0	4.96	351.48	8,487.5	288.4	-43.2	46.5	0.00	0.00	0.00	
8,600.0	4.96	351.48	8,587.2	297.0	-44.5	47.9	0.00	0.00	0.00	
8,700.0	4.96	351.48	8,686.8	305.5	-45.8	49.2	0.00	0.00	0.00	
8,800.0	4.96	351.48	8,786.4	314.0	-47.1	50.6	0.00	0.00	0.00	
8,859.3	4.96	351.48	8,845.5	319.1	-47.8	51.4	0.00	0.00	0.00	
8,900.0	4.14	351.48	8,886.1	322.3	-48.3	51.9	2.00	-2.00	0.00	
9,000.0	2.14	351.48	8,985.9	327.7	-49.1	52.8	2.00	-2.00	0.00	
9,107.1	0.00	0.00	9,093.0	329.7	-49.4	53.1	2.00	-2.00	0.00	
KOP: 1850' FSL & 473' FWL (Sec 8)										
9,150.0	4.29	269.77	9,135.8	329.7	-51.0	54.7	10.00	10.00	0.00	
9,200.0	9.29	269.77	9,185.5	329.7	-56.9	60.6	10.00	10.00	0.00	
9,250.0	14.29	269.77	9,234.4	329.6	-67.1	70.8	10.00	10.00	0.00	
9,300.0	19.29	269.77	9,282.3	329.6	-81.6	85.3	10.00	10.00	0.00	
9,350.0	24.29	269.77	9,328.7	329.5	-100.1	103.8	10.00	10.00	0.00	
9,400.0	29.28	269.77	9,373.3	329.4	-122.6	126.4	10.00	10.00	0.00	
9,450.0	34.28	269.77	9,415.8	329.3	-149.0	152.7	10.00	10.00	0.00	
9,500.0	39.28	269.77	9,455.8	329.2	-178.9	182.6	10.00	10.00	0.00	
9,550.0	44.28	269.77	9,493.1	329.0	-212.2	215.9	10.00	10.00	0.00	
9,600.0	49.28	269.77	9,527.3	328.9	-248.6	252.3	10.00	10.00	0.00	
9,650.0	54.28	269.77	9,558.2	328.7	-287.9	291.6	10.00	10.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Toto 7/10 Fed Com #616H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Toto 7/10 Fed Com #616H	North Reference:	Grid
Well:	Sec 08, T19S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1850' FSL & 100' FWL (Sec 10)		
Design:	Design #1		

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)
9,700.0	59.28	269.77	9,585.6	328.6	-329.7	333.4	10.00	10.00	0.00
9,750.0	64.28	269.77	9,609.3	328.4	-373.8	377.4	10.00	10.00	0.00
9,800.0	69.28	269.77	9,629.0	328.2	-419.7	423.4	10.00	10.00	0.00
9,850.0	74.28	269.77	9,644.6	328.0	-467.2	470.8	10.00	10.00	0.00
9,900.0	79.28	269.77	9,656.0	327.8	-515.8	519.5	10.00	10.00	0.00
9,950.0	84.28	269.77	9,663.2	327.6	-565.3	569.0	10.00	10.00	0.00
10,000.0	89.28	269.77	9,666.0	327.4	-615.2	618.9	10.00	10.00	0.00
10,007.1	89.99	269.77	9,666.0	327.4	-622.3	626.0	10.00	10.00	0.00
FTP/LP: 1850' FSL & 100' FEL (Sec 7)									
10,012.5	90.52	269.77	9,666.0	327.3	-627.7	631.3	10.00	10.00	0.00
10,100.0	90.52	269.77	9,665.2	327.0	-715.2	718.8	0.00	0.00	0.00
10,200.0	90.52	269.77	9,664.3	326.6	-815.2	818.8	0.00	0.00	0.00
10,300.0	90.52	269.77	9,663.4	326.2	-915.2	918.8	0.00	0.00	0.00
10,400.0	90.52	269.77	9,662.5	325.8	-1,015.2	1,018.8	0.00	0.00	0.00
10,500.0	90.52	269.77	9,661.5	325.4	-1,115.2	1,118.8	0.00	0.00	0.00
10,600.0	90.52	269.77	9,660.6	325.0	-1,215.2	1,218.8	0.00	0.00	0.00
10,700.0	90.52	269.77	9,659.7	324.5	-1,315.2	1,318.8	0.00	0.00	0.00
10,800.0	90.52	269.77	9,658.8	324.1	-1,415.2	1,418.7	0.00	0.00	0.00
10,900.0	90.52	269.77	9,657.9	323.7	-1,515.2	1,518.7	0.00	0.00	0.00
11,000.0	90.52	269.77	9,657.0	323.3	-1,615.1	1,618.7	0.00	0.00	0.00
11,100.0	90.52	269.77	9,656.1	322.9	-1,715.1	1,718.7	0.00	0.00	0.00
11,200.0	90.52	269.77	9,655.2	322.5	-1,815.1	1,818.7	0.00	0.00	0.00
11,300.0	90.52	269.77	9,654.2	322.1	-1,915.1	1,918.7	0.00	0.00	0.00
11,400.0	90.52	269.77	9,653.3	321.7	-2,015.1	2,018.6	0.00	0.00	0.00
11,500.0	90.52	269.77	9,652.4	321.3	-2,115.1	2,118.6	0.00	0.00	0.00
11,600.0	90.52	269.77	9,651.5	320.9	-2,215.1	2,218.6	0.00	0.00	0.00
11,700.0	90.52	269.77	9,650.6	320.5	-2,315.1	2,318.6	0.00	0.00	0.00
11,800.0	90.52	269.77	9,649.7	320.1	-2,415.1	2,418.6	0.00	0.00	0.00
11,900.0	90.52	269.77	9,648.8	319.7	-2,515.1	2,518.6	0.00	0.00	0.00
12,000.0	90.52	269.77	9,647.9	319.3	-2,615.1	2,618.5	0.00	0.00	0.00
12,100.0	90.52	269.77	9,646.9	318.8	-2,715.1	2,718.5	0.00	0.00	0.00
12,200.0	90.52	269.77	9,646.0	318.4	-2,815.1	2,818.5	0.00	0.00	0.00
12,300.0	90.52	269.77	9,645.1	318.0	-2,915.1	2,918.5	0.00	0.00	0.00
12,400.0	90.52	269.77	9,644.2	317.6	-3,015.1	3,018.5	0.00	0.00	0.00
12,500.0	90.52	269.77	9,643.3	317.2	-3,115.1	3,118.5	0.00	0.00	0.00
12,547.9	90.52	269.77	9,642.9	317.0	-3,163.0	3,166.4	0.00	0.00	0.00
PPP2: 1850' FSL & 2642' FEL (Sec 7)									
12,600.0	90.52	269.77	9,642.4	316.8	-3,215.1	3,218.4	0.00	0.00	0.00
12,700.0	90.52	269.77	9,641.5	316.4	-3,315.1	3,318.4	0.00	0.00	0.00
12,800.0	90.52	269.77	9,640.6	316.0	-3,415.1	3,418.4	0.00	0.00	0.00
12,900.0	90.52	269.77	9,639.6	315.6	-3,515.1	3,518.4	0.00	0.00	0.00
13,000.0	90.52	269.77	9,638.7	315.2	-3,615.0	3,618.4	0.00	0.00	0.00
13,100.0	90.52	269.77	9,637.8	314.8	-3,715.0	3,718.4	0.00	0.00	0.00
13,200.0	90.52	269.77	9,636.9	314.4	-3,815.0	3,818.4	0.00	0.00	0.00
13,300.0	90.52	269.77	9,636.0	314.0	-3,915.0	3,918.3	0.00	0.00	0.00
13,400.0	90.52	269.77	9,635.1	313.6	-4,015.0	4,018.3	0.00	0.00	0.00
13,500.0	90.52	269.77	9,634.2	313.1	-4,115.0	4,118.3	0.00	0.00	0.00
13,600.0	90.52	269.77	9,633.2	312.7	-4,215.0	4,218.3	0.00	0.00	0.00
13,700.0	90.52	269.77	9,632.3	312.3	-4,315.0	4,318.3	0.00	0.00	0.00
13,800.0	90.52	269.77	9,631.4	311.9	-4,415.0	4,418.3	0.00	0.00	0.00
13,900.0	90.52	269.77	9,630.5	311.5	-4,515.0	4,518.2	0.00	0.00	0.00
14,000.0	90.52	269.77	9,629.6	311.1	-4,615.0	4,618.2	0.00	0.00	0.00
14,100.0	90.52	269.77	9,628.7	310.7	-4,715.0	4,718.2	0.00	0.00	0.00
14,200.0	90.52	269.77	9,627.8	310.3	-4,815.0	4,818.2	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Toto 7/10 Fed Com #616H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Toto 7/10 Fed Com #616H	North Reference:	Grid
Well:	Sec 08, T19S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1850' FSL & 100' FWL (Sec 10)		
Design:	Design #1		

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)
14,300.0	90.52	269.77	9,626.9	309.9	-4,915.0	4,918.2	0.00	0.00	0.00
14,400.0	90.52	269.77	9,625.9	309.5	-5,015.0	5,018.2	0.00	0.00	0.00
14,500.0	90.52	269.77	9,625.0	309.1	-5,115.0	5,118.1	0.00	0.00	0.00
14,600.0	90.52	269.77	9,624.1	308.7	-5,215.0	5,218.1	0.00	0.00	0.00
14,700.0	90.52	269.77	9,623.2	308.3	-5,315.0	5,318.1	0.00	0.00	0.00
14,800.0	90.52	269.77	9,622.3	307.8	-5,415.0	5,418.1	0.00	0.00	0.00
14,900.0	90.52	269.77	9,621.4	307.4	-5,515.0	5,518.1	0.00	0.00	0.00
15,000.0	90.52	269.77	9,620.5	307.0	-5,614.9	5,618.1	0.00	0.00	0.00
15,097.6	90.52	269.77	9,619.6	306.6	-5,712.5	5,715.6	0.00	0.00	0.00
PPP3: 1850' FSL & 0' FEL (Sec 12)									
15,100.0	90.52	269.77	9,619.6	306.6	-5,714.9	5,718.0	0.00	0.00	0.00
15,200.0	90.52	269.77	9,618.6	306.2	-5,814.9	5,818.0	0.00	0.00	0.00
15,300.0	90.52	269.77	9,617.7	305.8	-5,914.9	5,918.0	0.00	0.00	0.00
15,400.0	90.52	269.77	9,616.8	305.4	-6,014.9	6,018.0	0.00	0.00	0.00
15,500.0	90.52	269.77	9,615.9	305.0	-6,114.9	6,118.0	0.00	0.00	0.00
15,600.0	90.52	269.77	9,615.0	304.6	-6,214.9	6,218.0	0.00	0.00	0.00
15,700.0	90.52	269.77	9,614.1	304.2	-6,314.9	6,318.0	0.00	0.00	0.00
15,800.0	90.52	269.77	9,613.2	303.8	-6,414.9	6,417.9	0.00	0.00	0.00
15,900.0	90.52	269.77	9,612.2	303.4	-6,514.9	6,517.9	0.00	0.00	0.00
16,000.0	90.52	269.77	9,611.3	303.0	-6,614.9	6,617.9	0.00	0.00	0.00
16,100.0	90.52	269.77	9,610.4	302.6	-6,714.9	6,717.9	0.00	0.00	0.00
16,200.0	90.52	269.77	9,609.5	302.1	-6,814.9	6,817.9	0.00	0.00	0.00
16,300.0	90.52	269.77	9,608.6	301.7	-6,914.9	6,917.9	0.00	0.00	0.00
16,400.0	90.52	269.77	9,607.7	301.3	-7,014.9	7,017.8	0.00	0.00	0.00
16,500.0	90.52	269.77	9,606.8	300.9	-7,114.9	7,117.8	0.00	0.00	0.00
16,600.0	90.52	269.77	9,605.9	300.5	-7,214.9	7,217.8	0.00	0.00	0.00
16,700.0	90.52	269.77	9,604.9	300.1	-7,314.9	7,317.8	0.00	0.00	0.00
16,800.0	90.52	269.77	9,604.0	299.7	-7,414.9	7,417.8	0.00	0.00	0.00
16,900.0	90.52	269.77	9,603.1	299.3	-7,514.9	7,517.8	0.00	0.00	0.00
17,000.0	90.52	269.77	9,602.2	298.9	-7,614.8	7,617.7	0.00	0.00	0.00
17,100.0	90.52	269.77	9,601.3	298.5	-7,714.8	7,717.7	0.00	0.00	0.00
17,200.0	90.52	269.77	9,600.4	298.1	-7,814.8	7,817.7	0.00	0.00	0.00
17,300.0	90.52	269.77	9,599.5	297.7	-7,914.8	7,917.7	0.00	0.00	0.00
17,400.0	90.52	269.77	9,598.6	297.3	-8,014.8	8,017.7	0.00	0.00	0.00
17,500.0	90.52	269.77	9,597.6	296.9	-8,114.8	8,117.7	0.00	0.00	0.00
17,600.0	90.52	269.77	9,596.7	296.4	-8,214.8	8,217.6	0.00	0.00	0.00
17,700.0	90.52	269.77	9,595.8	296.0	-8,314.8	8,317.6	0.00	0.00	0.00
17,727.1	90.52	269.77	9,595.6	295.9	-8,341.9	8,344.7	0.00	0.00	0.00
PPP4: 1850' FSL & 2638' FWL (Sec 12)									
17,800.0	90.52	269.77	9,594.9	295.6	-8,414.8	8,417.6	0.00	0.00	0.00
17,900.0	90.52	269.77	9,594.0	295.2	-8,514.8	8,517.6	0.00	0.00	0.00
18,000.0	90.52	269.77	9,593.1	294.8	-8,614.8	8,617.6	0.00	0.00	0.00
18,100.0	90.52	269.77	9,592.2	294.4	-8,714.8	8,717.6	0.00	0.00	0.00
18,200.0	90.52	269.77	9,591.3	294.0	-8,814.8	8,817.6	0.00	0.00	0.00
18,300.0	90.52	269.77	9,590.3	293.6	-8,914.8	8,917.5	0.00	0.00	0.00
18,400.0	90.52	269.77	9,589.4	293.2	-9,014.8	9,017.5	0.00	0.00	0.00
18,500.0	90.52	269.77	9,588.5	292.8	-9,114.8	9,117.5	0.00	0.00	0.00
18,600.0	90.52	269.77	9,587.6	292.4	-9,214.8	9,217.5	0.00	0.00	0.00
18,700.0	90.52	269.77	9,586.7	292.0	-9,314.8	9,317.5	0.00	0.00	0.00
18,800.0	90.52	269.77	9,585.8	291.6	-9,414.8	9,417.5	0.00	0.00	0.00
18,900.0	90.52	269.77	9,584.9	291.2	-9,514.8	9,517.4	0.00	0.00	0.00
19,000.0	90.52	269.77	9,583.9	290.7	-9,614.7	9,617.4	0.00	0.00	0.00
19,100.0	90.52	269.77	9,583.0	290.3	-9,714.7	9,717.4	0.00	0.00	0.00
19,200.0	90.52	269.77	9,582.1	289.9	-9,814.7	9,817.4	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Toto 7/10 Fed Com #616H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Toto 7/10 Fed Com #616H	North Reference:	Grid
Well:	Sec 08, T19S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1850' FSL & 100' FWL (Sec 10)		
Design:	Design #1		

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)	
19,300.0	90.52	269.77	9,581.2	289.5	-9,914.7	9,917.4	0.00	0.00	0.00	
19,400.0	90.52	269.77	9,580.3	289.1	-10,014.7	10,017.4	0.00	0.00	0.00	
19,500.0	90.52	269.77	9,579.4	288.7	-10,114.7	10,117.3	0.00	0.00	0.00	
19,600.0	90.52	269.77	9,578.5	288.3	-10,214.7	10,217.3	0.00	0.00	0.00	
19,700.0	90.52	269.77	9,577.6	287.9	-10,314.7	10,317.3	0.00	0.00	0.00	
19,800.0	90.52	269.77	9,576.6	287.5	-10,414.7	10,417.3	0.00	0.00	0.00	
19,900.0	90.52	269.77	9,575.7	287.1	-10,514.7	10,517.3	0.00	0.00	0.00	
20,000.0	90.52	269.77	9,574.8	286.7	-10,614.7	10,617.3	0.00	0.00	0.00	
20,100.0	90.52	269.77	9,573.9	286.3	-10,714.7	10,717.2	0.00	0.00	0.00	
20,200.0	90.52	269.77	9,573.0	285.9	-10,814.7	10,817.2	0.00	0.00	0.00	
20,300.0	90.52	269.77	9,572.1	285.5	-10,914.7	10,917.2	0.00	0.00	0.00	
20,400.0	90.52	269.77	9,571.2	285.0	-11,014.7	11,017.2	0.00	0.00	0.00	
20,500.0	90.52	269.77	9,570.3	284.6	-11,114.7	11,117.2	0.00	0.00	0.00	
20,600.0	90.52	269.77	9,569.3	284.2	-11,214.7	11,217.2	0.00	0.00	0.00	
20,700.0	90.52	269.77	9,568.4	283.8	-11,314.7	11,317.2	0.00	0.00	0.00	
20,800.0	90.52	269.77	9,567.5	283.4	-11,414.7	11,417.1	0.00	0.00	0.00	
20,900.0	90.52	269.77	9,566.6	283.0	-11,514.7	11,517.1	0.00	0.00	0.00	
21,000.0	90.52	269.77	9,565.7	282.6	-11,614.6	11,617.1	0.00	0.00	0.00	
21,100.0	90.52	269.77	9,564.8	282.2	-11,714.6	11,717.1	0.00	0.00	0.00	
21,200.0	90.52	269.77	9,563.9	281.8	-11,814.6	11,817.1	0.00	0.00	0.00	
21,300.0	90.52	269.77	9,562.9	281.4	-11,914.6	11,917.1	0.00	0.00	0.00	
21,400.0	90.52	269.77	9,562.0	281.0	-12,014.6	12,017.0	0.00	0.00	0.00	
21,500.0	90.52	269.77	9,561.1	280.6	-12,114.6	12,117.0	0.00	0.00	0.00	
21,600.0	90.52	269.77	9,560.2	280.2	-12,214.6	12,217.0	0.00	0.00	0.00	
21,700.0	90.52	269.77	9,559.3	279.8	-12,314.6	12,317.0	0.00	0.00	0.00	
21,800.0	90.52	269.77	9,558.4	279.3	-12,414.6	12,417.0	0.00	0.00	0.00	
21,900.0	90.52	269.77	9,557.5	278.9	-12,514.6	12,517.0	0.00	0.00	0.00	
22,000.0	90.52	269.77	9,556.6	278.5	-12,614.6	12,616.9	0.00	0.00	0.00	
22,100.0	90.52	269.77	9,555.6	278.1	-12,714.6	12,716.9	0.00	0.00	0.00	
22,200.0	90.52	269.77	9,554.7	277.7	-12,814.6	12,816.9	0.00	0.00	0.00	
22,300.0	90.52	269.77	9,553.8	277.3	-12,914.6	12,916.9	0.00	0.00	0.00	
22,400.0	90.52	269.77	9,552.9	276.9	-13,014.6	13,016.9	0.00	0.00	0.00	
22,500.0	90.52	269.77	9,552.0	276.5	-13,114.6	13,116.9	0.00	0.00	0.00	
22,600.0	90.52	269.77	9,551.1	276.1	-13,214.6	13,216.8	0.00	0.00	0.00	
22,700.0	90.52	269.77	9,550.2	275.7	-13,314.6	13,316.8	0.00	0.00	0.00	
22,800.0	90.52	269.77	9,549.3	275.3	-13,414.6	13,416.8	0.00	0.00	0.00	
22,900.0	90.52	269.77	9,548.3	274.9	-13,514.6	13,516.8	0.00	0.00	0.00	
23,000.0	90.52	269.77	9,547.4	274.5	-13,614.5	13,616.8	0.00	0.00	0.00	
23,100.0	90.52	269.77	9,546.5	274.1	-13,714.5	13,716.8	0.00	0.00	0.00	
23,200.0	90.52	269.77	9,545.6	273.6	-13,814.5	13,816.8	0.00	0.00	0.00	
23,300.0	90.52	269.77	9,544.7	273.2	-13,914.5	13,916.7	0.00	0.00	0.00	
23,400.0	90.52	269.77	9,543.8	272.8	-14,014.5	14,016.7	0.00	0.00	0.00	
23,500.0	90.52	269.77	9,542.9	272.4	-14,114.5	14,116.7	0.00	0.00	0.00	
23,600.0	90.52	269.77	9,542.0	272.0	-14,214.5	14,216.7	0.00	0.00	0.00	
23,700.0	90.52	269.77	9,541.0	271.6	-14,314.5	14,316.7	0.00	0.00	0.00	
23,800.0	90.52	269.77	9,540.1	271.2	-14,414.5	14,416.7	0.00	0.00	0.00	
23,900.0	90.52	269.77	9,539.2	270.8	-14,514.5	14,516.6	0.00	0.00	0.00	
24,000.0	90.52	269.77	9,538.3	270.4	-14,614.5	14,616.6	0.00	0.00	0.00	
24,100.0	90.52	269.77	9,537.4	270.0	-14,714.5	14,716.6	0.00	0.00	0.00	
24,200.0	90.52	269.77	9,536.5	269.6	-14,814.5	14,816.6	0.00	0.00	0.00	
24,300.0	90.52	269.77	9,535.6	269.2	-14,914.5	14,916.6	0.00	0.00	0.00	
24,400.0	90.52	269.77	9,534.6	268.8	-15,014.5	15,016.6	0.00	0.00	0.00	
24,500.0	90.52	269.77	9,533.7	268.4	-15,114.5	15,116.5	0.00	0.00	0.00	
24,600.0	90.52	269.77	9,532.8	267.9	-15,214.5	15,216.5	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Toto 7/10 Fed Com #616H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Toto 7/10 Fed Com #616H	North Reference:	Grid
Well:	Sec 08, T19S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1850' FSL & 100' FWL (Sec 10)		
Design:	Design #1		

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)	
24,700.0	90.52	269.77	9,531.9	267.5	-15,314.5	15,316.5	0.00	0.00	0.00	
24,800.0	90.52	269.77	9,531.0	267.1	-15,414.5	15,416.5	0.00	0.00	0.00	
24,900.0	90.52	269.77	9,530.1	266.7	-15,514.5	15,516.5	0.00	0.00	0.00	
25,000.0	90.52	269.77	9,529.2	266.3	-15,614.4	15,616.5	0.00	0.00	0.00	
25,100.0	90.52	269.77	9,528.3	265.9	-15,714.4	15,716.4	0.00	0.00	0.00	
25,200.0	90.52	269.77	9,527.3	265.5	-15,814.4	15,816.4	0.00	0.00	0.00	
25,300.0	90.52	269.77	9,526.4	265.1	-15,914.4	15,916.4	0.00	0.00	0.00	
25,400.0	90.52	269.77	9,525.5	264.7	-16,014.4	16,016.4	0.00	0.00	0.00	
25,500.0	90.52	269.77	9,524.6	264.3	-16,114.4	16,116.4	0.00	0.00	0.00	
25,600.0	90.52	269.77	9,523.7	263.9	-16,214.4	16,216.4	0.00	0.00	0.00	
25,700.0	90.52	269.77	9,522.8	263.5	-16,314.4	16,316.4	0.00	0.00	0.00	
25,800.0	90.52	269.77	9,521.9	263.1	-16,414.4	16,416.3	0.00	0.00	0.00	
25,900.0	90.52	269.77	9,521.0	262.6	-16,514.4	16,516.3	0.00	0.00	0.00	
26,000.0	90.52	269.77	9,520.0	262.2	-16,614.4	16,616.3	0.00	0.00	0.00	
26,100.0	90.52	269.77	9,519.1	261.8	-16,714.4	16,716.3	0.00	0.00	0.00	
26,200.0	90.52	269.77	9,518.2	261.4	-16,814.4	16,816.3	0.00	0.00	0.00	
26,300.0	90.52	269.77	9,517.3	261.0	-16,914.4	16,916.3	0.00	0.00	0.00	
26,400.0	90.52	269.77	9,516.4	260.6	-17,014.4	17,016.2	0.00	0.00	0.00	
26,500.0	90.52	269.77	9,515.5	260.2	-17,114.4	17,116.2	0.00	0.00	0.00	
26,600.0	90.52	269.77	9,514.6	259.8	-17,214.4	17,216.2	0.00	0.00	0.00	
26,700.0	90.52	269.77	9,513.6	259.4	-17,314.4	17,316.2	0.00	0.00	0.00	
26,800.0	90.52	269.77	9,512.7	259.0	-17,414.4	17,416.2	0.00	0.00	0.00	
26,900.0	90.52	269.77	9,511.8	258.6	-17,514.4	17,516.2	0.00	0.00	0.00	
27,000.0	90.52	269.77	9,510.9	258.2	-17,614.3	17,616.1	0.00	0.00	0.00	
27,100.0	90.52	269.77	9,510.0	257.8	-17,714.3	17,716.1	0.00	0.00	0.00	
27,200.0	90.52	269.77	9,509.1	257.4	-17,814.3	17,816.1	0.00	0.00	0.00	
27,300.0	90.52	269.77	9,508.2	256.9	-17,914.3	17,916.1	0.00	0.00	0.00	
27,400.0	90.52	269.77	9,507.3	256.5	-18,014.3	18,016.1	0.00	0.00	0.00	
27,500.0	90.52	269.77	9,506.3	256.1	-18,114.3	18,116.1	0.00	0.00	0.00	
27,600.0	90.52	269.77	9,505.4	255.7	-18,214.3	18,216.0	0.00	0.00	0.00	
27,700.0	90.52	269.77	9,504.5	255.3	-18,314.3	18,316.0	0.00	0.00	0.00	
27,800.0	90.52	269.77	9,503.6	254.9	-18,414.3	18,416.0	0.00	0.00	0.00	
27,900.0	90.52	269.77	9,502.7	254.5	-18,514.3	18,516.0	0.00	0.00	0.00	
28,000.0	90.52	269.77	9,501.8	254.1	-18,614.3	18,616.0	0.00	0.00	0.00	
28,100.0	90.52	269.77	9,500.9	253.7	-18,714.3	18,716.0	0.00	0.00	0.00	
28,200.0	90.52	269.77	9,500.0	253.3	-18,814.3	18,816.0	0.00	0.00	0.00	
28,300.0	90.52	269.77	9,499.0	252.9	-18,914.3	18,915.9	0.00	0.00	0.00	
28,400.0	90.52	269.77	9,498.1	252.5	-19,014.3	19,015.9	0.00	0.00	0.00	
28,500.0	90.52	269.77	9,497.2	252.1	-19,114.3	19,115.9	0.00	0.00	0.00	
28,600.0	90.52	269.77	9,496.3	251.7	-19,214.3	19,215.9	0.00	0.00	0.00	
28,700.0	90.52	269.77	9,495.4	251.2	-19,314.3	19,315.9	0.00	0.00	0.00	
28,800.0	90.52	269.77	9,494.5	250.8	-19,414.3	19,415.9	0.00	0.00	0.00	
28,900.0	90.52	269.77	9,493.6	250.4	-19,514.3	19,515.8	0.00	0.00	0.00	
29,000.0	90.52	269.77	9,492.6	250.0	-19,614.2	19,615.8	0.00	0.00	0.00	
29,100.0	90.52	269.77	9,491.7	249.6	-19,714.2	19,715.8	0.00	0.00	0.00	
29,200.0	90.52	269.77	9,490.8	249.2	-19,814.2	19,815.8	0.00	0.00	0.00	
29,300.0	90.52	269.77	9,489.9	248.8	-19,914.2	19,915.8	0.00	0.00	0.00	
29,400.0	90.52	269.77	9,489.0	248.4	-20,014.2	20,015.8	0.00	0.00	0.00	
29,500.0	90.52	269.77	9,488.1	248.0	-20,114.2	20,115.7	0.00	0.00	0.00	
29,600.0	90.52	269.77	9,487.2	247.6	-20,214.2	20,215.7	0.00	0.00	0.00	
29,700.0	90.52	269.77	9,486.3	247.2	-20,314.2	20,315.7	0.00	0.00	0.00	
29,800.0	90.52	269.77	9,485.3	246.8	-20,414.2	20,415.7	0.00	0.00	0.00	
29,900.0	90.52	269.77	9,484.4	246.4	-20,514.2	20,515.7	0.00	0.00	0.00	
30,000.0	90.52	269.77	9,483.5	246.0	-20,614.2	20,615.7	0.00	0.00	0.00	

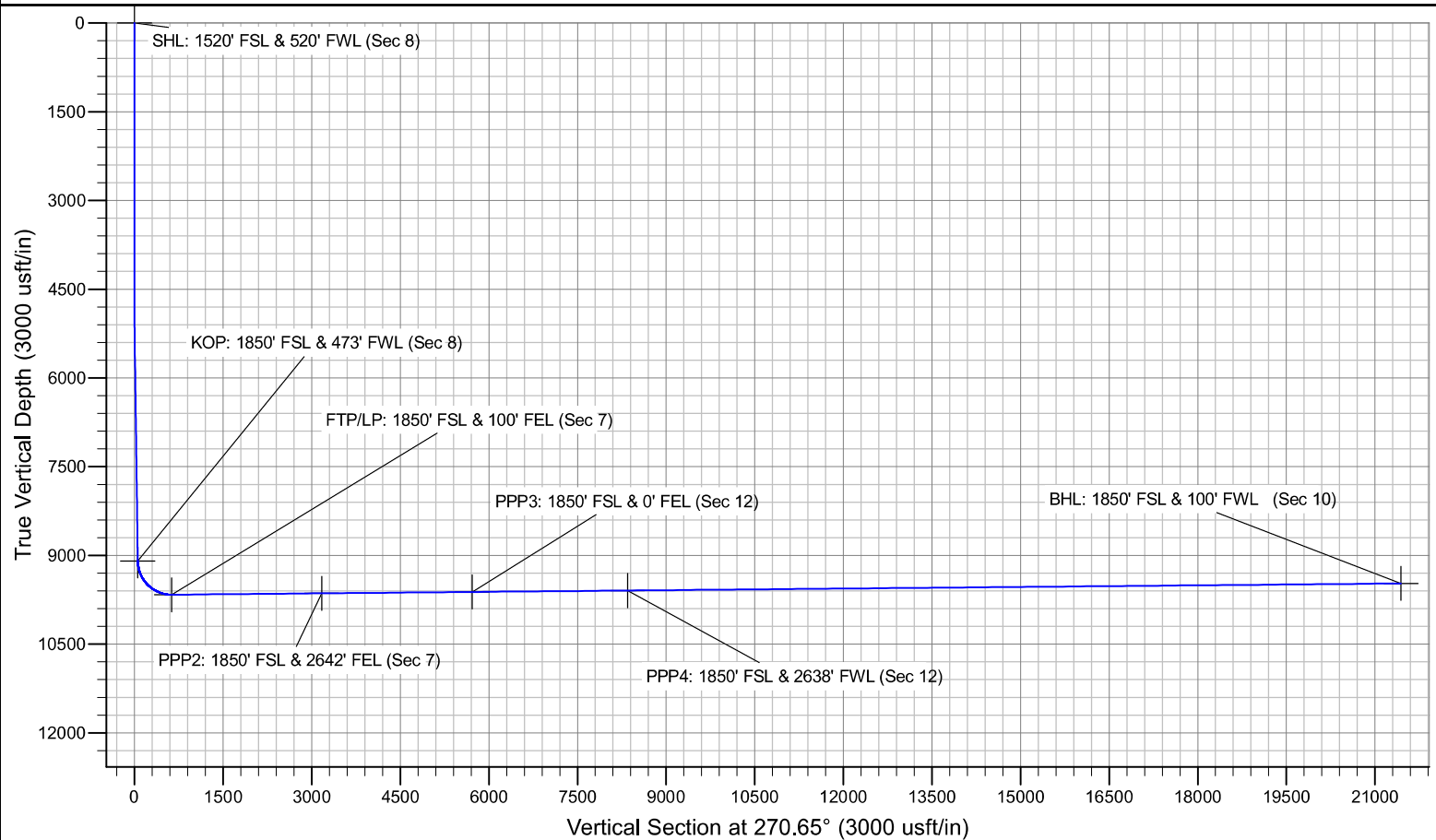
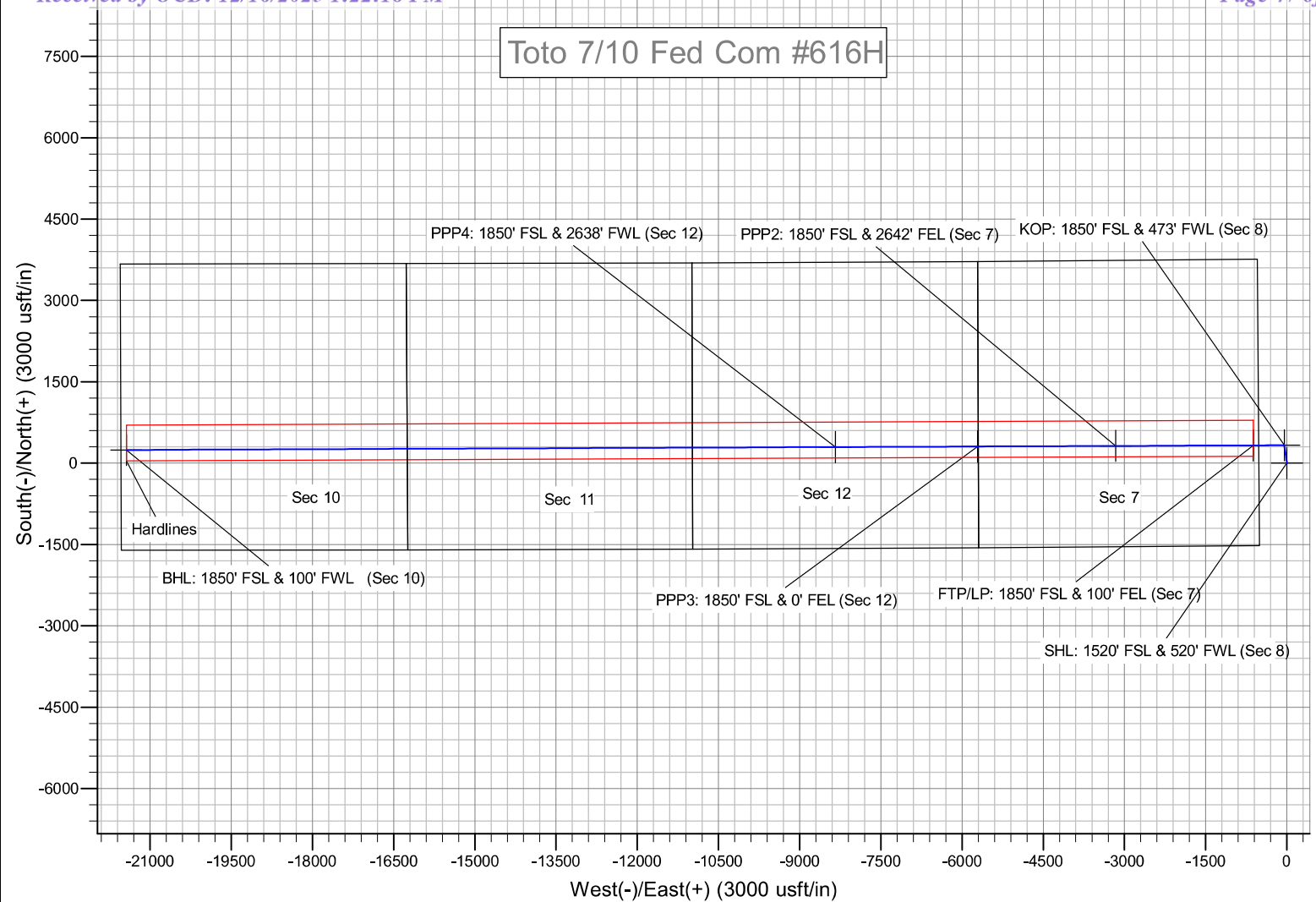
Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Toto 7/10 Fed Com #616H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Toto 7/10 Fed Com #616H	North Reference:	Grid
Well:	Sec 08, T19S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1850' FSL & 100' FWL (Sec 10)		
Design:	Design #1		

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)	
30,100.0	90.52	269.77	9,482.6	245.5	-20,714.2	20,715.6	0.00	0.00	0.00	
30,200.0	90.52	269.77	9,481.7	245.1	-20,814.2	20,815.6	0.00	0.00	0.00	
30,300.0	90.52	269.77	9,480.8	244.7	-20,914.2	20,915.6	0.00	0.00	0.00	
30,400.0	90.52	269.77	9,479.9	244.3	-21,014.2	21,015.6	0.00	0.00	0.00	
30,500.0	90.52	269.77	9,479.0	243.9	-21,114.2	21,115.6	0.00	0.00	0.00	
30,600.0	90.52	269.77	9,478.0	243.5	-21,214.2	21,215.6	0.00	0.00	0.00	
30,700.0	90.52	269.77	9,477.1	243.1	-21,314.2	21,315.6	0.00	0.00	0.00	
30,800.0	90.52	269.77	9,476.2	242.7	-21,414.2	21,415.5	0.00	0.00	0.00	
30,823.7	90.52	269.77	9,476.0	242.6	-21,437.9	21,439.3	0.00	0.00	0.00	
BHL: 1850' FSL & 100' FWL (Sec 10)										

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	
SHL: 1520' FSL & 520' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	608,419.60	675,169.50	32.6718370	-103.8984011	
KOP: 1850' FSL & 473' F - plan hits target center - Point	0.00	0.00	9,093.0	329.7	-49.4	608,749.30	675,120.10	32.6727438	-103.8985572	
BHL: 1850' FSL & 100' F - plan hits target center - Point	0.00	0.00	9,476.0	242.6	-21,437.9	608,662.20	653,731.60	32.6727260	-103.9680667	
PPP4: 1850' FSL & 263' F - plan hits target center - Point	0.00	0.00	9,595.6	295.9	-8,341.9	608,715.53	666,827.60	32.6727415	-103.9255066	
PPP3: 1850' FSL & 0' FE - plan hits target center - Point	0.00	0.00	9,619.6	306.6	-5,712.5	608,726.24	669,457.00	32.6727428	-103.9169614	
PPP2: 1850' FSL & 264' F - plan hits target center - Point	0.00	0.00	9,642.9	317.0	-3,163.0	608,736.62	672,006.50	32.6727436	-103.9086759	
FTP/LP: 1850' FSL & 10' F - plan hits target center - Point	0.00	0.00	9,666.0	327.4	-622.3	608,746.97	674,547.20	32.6727438	-103.9004190	

Toto 7/10 Fed Com #616H



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
WELL NAME & NO.:	TOTO 7/10 FED COM 616H
APD ID:	10400107057
LOCATION:	Section 8, T19S, R31E. NMP.
COUNTY:	Eddy County, New Mexico ▼

COA

H ₂ S	☐ No ☒ Yes			
Potash / WIPP	☒ None	☐ Secretary	☐ R-111-Q	☐ Open Annulus ☐ WIPP
Cave / Karst	☒ Low	☐ Medium	☐ High	☐ Critical
Wellhead	☐ Conventional	☒ Multibowl	☐ Both	☐ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☒ COM	☐ Unit
Waste Prev.	☐ Self-Certification	☒ Waste Min. Plan	☐ APD Submitted prior to 06/10/2024	
Additional Language	☒ Flex Hose ☐ Four-String	☐ Casing Clearance ☒ Offline Cementing	☐ Pilot Hole ☐ Fluid-Filled	☒ Break Testing

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated at spud. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING DESIGN

Primary Casing Program

Note: The surface casing set depth was adjusted based on the recommendation from the BLM geologist. *"The operator proposes to set surface casing at 500 ft. which will be in or above the Magenta Dolomite Aquifer and will not adequately protect all usable water zones. Instead, set surface casing at a depth of approximately 660 ft. If salt is encountered, set casing at least 25 ft. above the salt."*

- The 13-3/8 inch surface casing shall be set at approximately **660 ft.** (a minimum of 70 feet into the Rustler Anhydrite, below usable water and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**

- 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 psi 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 in a competent bed at approximately **3,385 ft.** The minimum required fill of cement behind the **9-5/8 inch** intermediate casing is:
 - **Cement to surface.** If cement does not circulate see B.1.a, c-d above.
3. Operator has proposed to set **7-5/8 x 5-1/2 inch** tapered production casing at approximately **30,823 ft.** (9,476 ft. TVD). The casing and hole sizes change at the KOP. The minimum required fill of cement behind the tapered production casing is:
 - Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification.

Alternate Casing Program

Note: The surface casing set depth was adjusted based on the recommendation from the BLM geologist. *"The operator proposes to set surface casing at 500 ft. which will be in or above the Magenta Dolomite Aquifer and will not adequately protect all usable water zones. Instead, set surface casing at a depth of approximately 660 ft. If salt is encountered, set casing at least 25 ft. above the salt."*

1. The **13-3/8 inch** surface casing shall be set at approximately **660 ft.** (a minimum of 70 feet into the Rustler Anhydrite, below usable water and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
 - 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 psi 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 in a competent bed at approximately **3,385 ft.** The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
 - **Cement to surface.** If cement does not circulate see B.1.a, c-d above.
3. Operator has proposed to set **7-5/8 x 5-1/2 inch** tapered production casing at approximately **30,823 ft.** (9,476 ft. TVD). The casing and hole sizes change at the landing point. The minimum required fill of cement behind the tapered production casing is:
 - Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification.

Offline Cementing

Operator has been (**Approved**) to pump the proposed cement program offline in the **Surface and intermediate(s) intervals**. Offline cementing should commence within 24 hours of landing the casing for the interval. Notify the BLM 4hrs prior to the commencement of any offline cementing procedure at **Eddy County: 575-361-2822**.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**. Before drilling the surface casing shoe out, the BOP/BOPE and annular preventer shall be pressure-tested in accordance with **title 43 CFR 3172 and API Standard 53**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

BOPE Break Testing Variance

- BOPE Break Testing is **ONLY** permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure**

and shall be higher than the MASP.)

- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

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

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.

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 doghouse 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. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. 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.

SA 11/17/2025

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

Rule 118 does not apply to this well because MOC has researched this area and no high concentrations of H₂S were found. MOC will have on location and working all H₂S safety equipment before the Delaware formation for purposes of safety and insurance requirements.

2. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

1. The hazards and characteristics of hydrogen sulfide gas.
2. The proper use of personal protective equipment and life support systems.
3. The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
4. The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

- 1 The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
- 2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- 3 The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a known hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

3. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the 9 5/8" intermediate casing.

1. Well Control Equipment
 - A. Choke manifold with minimum of one adjustable choke/remote choke.
 - B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
 - C. Auxiliary equipment including annular type blowout preventer.
2. Protective Equipment for Essential Personnel

Thirty minute self contained work unit located in the dog house and at briefing areas.

Additionally: If H₂S is encountered in concentrations less than 10 ppm, fans will be placed in work areas to prevent the accumulation of hazardous amounts of poisonous gas. If higher concentrations of H₂S are detected the well will be shut in and a rotating head, mud/gas separator, remote choke and flare line with igniter will be installed.

3. Hydrogen Sulfide Protection and Monitoring Equipment

Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.

4. Visual Warning Systems

A. Wind direction indicators as indicated on the wellsite diagram.

B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. **Mud Program**

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

5. **Metallurgy**

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

6. **Communications**

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

7. **Well Testing**

Drill stem testing is not an anticipated requirement for evaluation of this well. If a drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

8. **Emergency Phone Numbers**

Eddy County Sheriff's Office	911 or 575-887-7551
Ambulance Service	911 or 575-885-2111
Carlsbad Fire Dept	911 or 575-885-2111
Loco Hills Volunteer Fire Dept.	911 or 575-677-3266
Closest Medical Facility - Columbia Medical Center of Carlsbad	575-492-5000

Mewbourne Oil Company	Hobbs District Office	575-393-5905
	Fax	575-397-6252
	2nd Fax	575-393-7259

District Manager	Robin Terrell	575-390-4816
Drilling Superintendent	Frosty Lathan	575-390-4103
	Bradley Bishop	575-390-6838
Drilling Foreman	Wesley Noseff	575-441-0729

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TOTO 7/10 FED COM**Well Number:** 616H

Section 7 - Methods for Handling

Waste type: DRILLING**Waste content description:** Drill cuttings**Amount of waste:** 3510 barrels**Waste disposal frequency :** One Time Only**Safe containment description:** Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.)**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE**Disposal type description:****Disposal location description:** NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec. 27 T20S R32E.**Waste type:** GARBAGE**Waste content description:** Garbage & trash**Amount of waste:** 1500 pounds**Waste disposal frequency :** One Time Only**Safe containment description:** Enclosed trash trailer**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE**Disposal type description:****Disposal location description:** Waste Management facility in Carlsbad.**Waste type:** SEWAGE**Waste content description:** Human waste & grey water**Amount of waste:** 1500 gallons**Waste disposal frequency :** Weekly**Safe containment description:** 2,000 gallon plastic container**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE**Disposal type description:****Disposal location description:** City of Carlsbad Water Treatment facility**Reserve Pit**

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** TOTO 7/10 FED COM**Well Number:** 616H**Temporary disposal of produced water into reserve pit?** NO**Reserve pit length (ft.)****Reserve pit width (ft.)****Reserve pit depth (ft.)****Reserve pit volume (cu. yd.)****Is at least 50% of the reserve pit in cut?****Reserve pit liner****Reserve pit liner specifications and installation description**

Cuttings Area

Cuttings Area being used? NO**Are you storing cuttings on location?** N**Description of cuttings location****Cuttings area length (ft.)****Cuttings area width (ft.)****Cuttings area depth (ft.)****Cuttings area volume (cu. yd.)****Is at least 50% of the cuttings area in cut?****Cuttings area liner****Cuttings area liner specifications and installation description**

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N**Ancillary Facilities****Comments:**

Section 9 - Well Site

Well Site Layout Diagram:

TOTO_7_10_FED_COM__616H_WellSiteLayout_20250912102620.pdf

Comments: NONE

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 535530

ACKNOWLEDGMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 535530
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☒	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 535530

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 535530
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mleal	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/16/2025
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/16/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/18/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/18/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/18/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/18/2025
ward.rikala	If the Capitan Reef is encountered while drilling this well, drilling shall immediately cease and casing shall be ran and cemented back to surface. Once the Reef has been fully penetrated, then another casing string is to be ran and cemented back to surface.	12/18/2025