Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM134867

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☑ Multiple Zone

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

8. Lease Name and Well No.: HOSS 2/11 FED COM 555H

2. Name of Operator: MEWBOURNE OIL COMPANY

9. API Well No.: 30-015-56981

3a. Address: P O BOX 5270, HOBBS, NM 88241

3b. Phone No. *(include area code)*: (575) 393-5905

10. Field and Pool, or Exploratory: north/BONE SPRING

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: LOT 2 / 800 FNL / 1540 FEL / LAT 32.1643049 / LONG -104.0543577

At proposed prod. zone: SWSE / 100 FSL / 2250 FEL / LAT 32.1377039 / LONG -104.0566877

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 2/T25S/R28E/NMP

14. Distance in miles and direction from nearest town or post office*: 30 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): 320 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 320.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 20 feet

19. Proposed Depth: 8733 feet / 19035 feet

20. BLM/BIA Bond No. in file: FED: NM1693

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 2953 feet

22. Approximate date work will start*: 07/09/2024

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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
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: 12/16/2024

Title: Regulatory

Approved by *(Signature)*: (Electronic Submission)

Name *(Printed/Typed)*: CODY LAYTON / Ph: (575) 234-5959

Date: 05/19/2025

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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 05/19/2025

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	Pool Code	Pool Name	
30-015-56981	53610	San Lorenzo; BONE SPRING, NORTH	
Property Code: 337389	Property Name: HOSS 2/11 FED COM		Well Number: 555H
OGRID No.: 14744	Operator Name: MEWBOURNE OIL COMPANY		Ground Level Elevation: 2953'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☐ Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	2	25S	28E	2	800 FNL	1540 FEL	32.1643049°N	104.0543577°W	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	11	25S	28E		100 FSL	2250 FEL	32.1377039°N	104.0566877°W	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320	INFILL	HOSS 2/11 FED COM 408H		
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	2	25S	28E	2	10 FNL	2250 FEL	32.1664815°N	104.0566370°W	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	2	25S	28E	2	100 FNL	2250 FEL	32.1662341°W	104.0566386°W	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	11	25S	28E		100 FSL	2250 FEL	32.1377039N	104.0566877W	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☑ Horizontal ☐ Vertical	Ground Floor Elevation:

OPERATOR CERTIFICATIONS

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.

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.

Brett Miller — 12/10/2024

Signature — Date

Brett Miller

Printed Name

brett.miller@mewbourne.com

Email Address

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.

ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Robert M. Howett

Certificate Number	Date of Survey
19680	11/20/2024

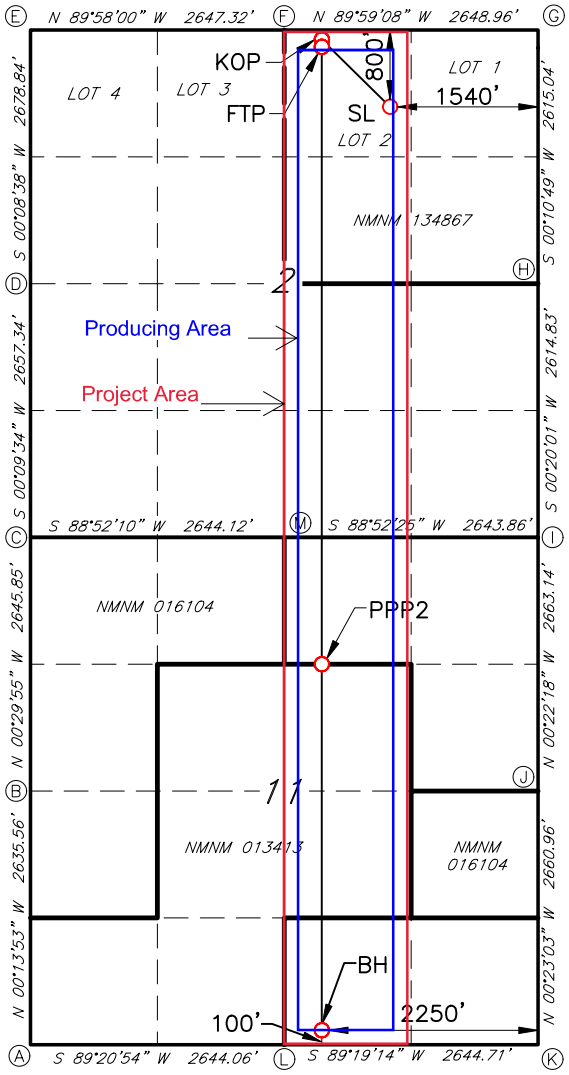
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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.

HOSS 2/11 FED COM #555H



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION (SL)
N: 423621.1 – E: 627662.2
LAT: 32.1643049° N
LONG: 104.0543577° W

KICK OFF POINT (KOP)
10' FNL & 2250' FEL SEC. 2
N: 424411.0 – E: 626954.9
LAT: 32.1664815° N
LONG: 104.0566370° W

FIRST TAKE POINT (FTP)
100' FNL & 2250' FEL SEC. 2
N: 424321.1 – E: 626954.6
LAT: 32.1662341° N
LONG: 104.0566386° W

PROPOSED PENETRATION POINT 2 (PPP2)
1328' FNL – 2229' FEL SEC. 11
N: 417820.4 – E: 626961.8
LAT: 32.1483643° N
LONG: 104.0566694° W

BOTTOM HOLE (BH)
N: 413942.3 – E: 626966.1
LAT: 32.1377039° N
LONG: 104.0566877° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1940"
N: 413807.6 – E: 623928.9

B: FOUND BRASS CAP "1940"
N: 416442.5 – E: 623918.2

C: FOUND BRASS CAP "1940"
N: 419087.7 – E: 623895.2

D: FOUND BRASS CAP "1940"
N: 421744.4 – E: 623902.6

E: FOUND BRASS CAP "1940"
N: 424422.7 – E: 623909.3

F: FOUND BRASS CAP "1940"
N: 424421.1 – E: 626556.0

G: FOUND BRASS CAP "1940"
N: 424420.5 – E: 629204.4

H: FOUND BRASS CAP "1940"
N: 421806.0 – E: 629196.2

I: FOUND BRASS CAP "1940"
N: 419191.8 – E: 629181.0

J: FOUND BRASS CAP "1940"
N: 416529.3 – E: 629198.2

K: FOUND BRASS CAP "1940"
N: 413869.0 – E: 629216.1

L: FOUND BRASS CAP "1940"
N: 413837.7 – E: 626572.1

M: FOUND BRASS CAP "1942"
N: 419139.9 – E: 626538.2

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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:** 11/6/24

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
HOSS 2/11 FED COM 555H		A 2 25S 28E	360' FNL x 700' FEL	1500	5000	1000
				Y1-400 Y2-300 Y3-200	Y1-1500 Y2-1000 Y3-700	Y1-300 Y2-200 Y3-150

IV. Central Delivery Point Name: HOSS 2/11 FED COM 555H [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
HOSS 2/11 FED COM 555H		3/6/25	4/6/25	5/6/25	5/21/25	5/26/25

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.

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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:	Bradley Bishop
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	11/6/24
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.

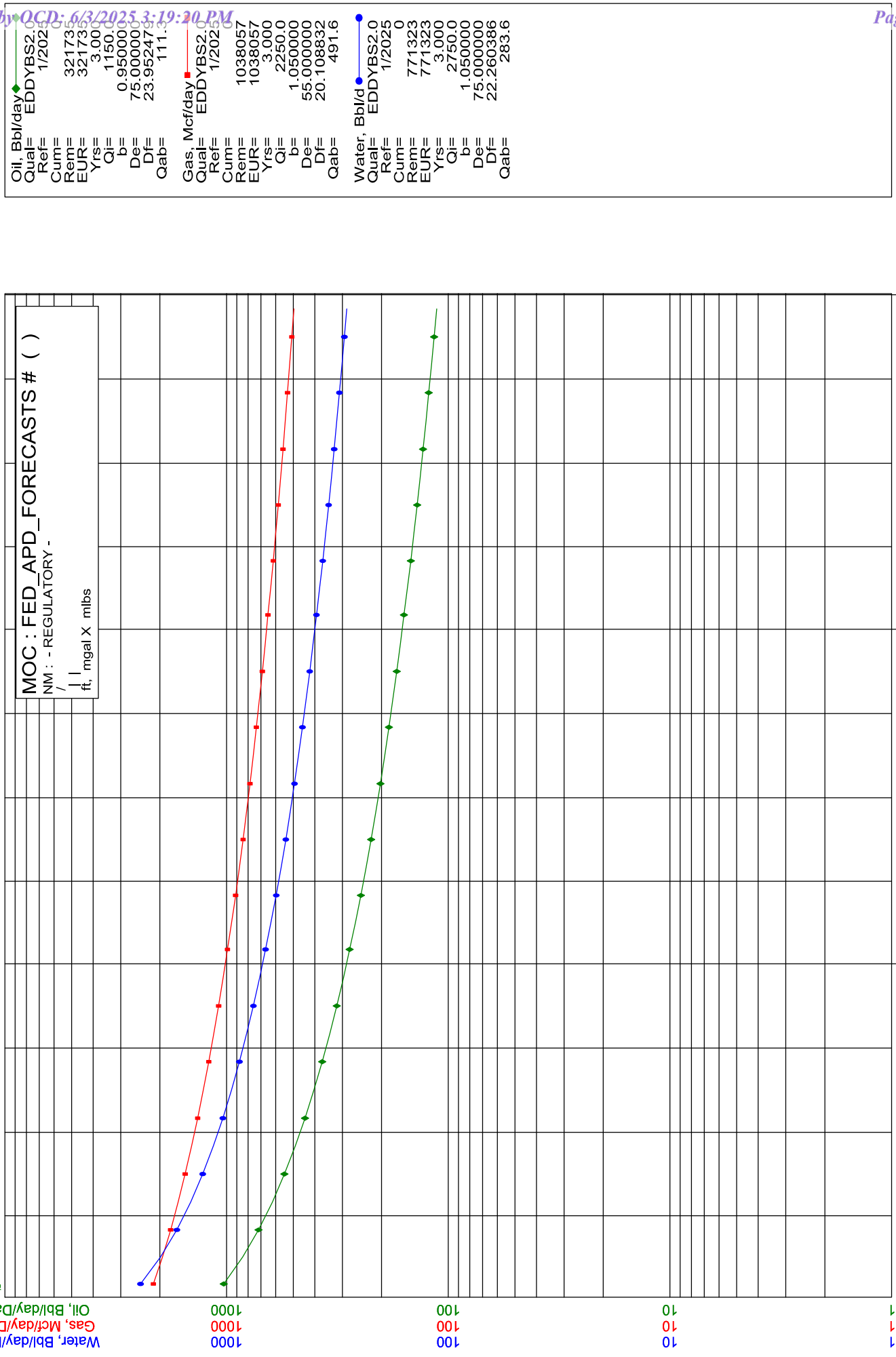
D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting 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 pressureventing 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 thediversion 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.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Rem= 32173
EUR= 3.000
Yrs= 1150.0
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b= 75.000000
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Df= 111.3
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EUR= 771323
Yrs= 3.000
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De= 75.000000
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MOC : FED_APD_FORECASTS # ( )
NM : - REGULATORY -
ft, mgal X mlbs
Water, Bbl/day/Day
Gas, Mcf/day/Day
Oil, Bbl/day/Day
1000
100
10
1
YEAR 1
YEAR 2
YEAR 3
Q1
Q2
Q3
Q4

AFMSS

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

Drilling Plan Data Report
06/03/2025

APD ID: 10400099833
Submission Date: 12/16/2024

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HOSS 2/11 FED COM
Well Number: 555H

Well Type: CONVENTIONAL GAS WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15646672	UNKNOWN	2999	28	28	OTHER : Top Soil	NONE	N
15646686	TOP OF SALT	1819	1180	1180	SALT	NONE	N
15646673	BOTTOM SALT	584	2415	2415	SALT	NONE	N
15646680	LAMAR	374	2625	2625	DOLOMITE, LIMESTONE	NATURAL GAS, OIL	N
15646688	BELL CANYON	349	2650	2650	SANDSTONE	NATURAL GAS, OIL	N
15646689	CHERRY CANYON	-546	3545	3545	SANDSTONE	NATURAL GAS, OIL	N
15646690	MANZANITA	-671	3670	3670	LIMESTONE	NATURAL GAS, OIL	N
15646691	BRUSHY CANYON LOWER	-1853	4852	4852	SANDSTONE	NATURAL GAS, OIL	N
15646675	BONE SPRING	-3386	6385	6385	LIMESTONE	NATURAL GAS, OIL	Y
15646682	BONE SPRING 1ST	-4336	7335	7335	SANDSTONE	NATURAL GAS, OIL	Y
15646679	BONE SPRING 2ND	-5126	8125	8125	SANDSTONE	NATURAL GAS, OIL	Y
15646692	BONE SPRING 3RD	-6176	9175	9175	SANDSTONE	NATURAL GAS, OIL	Y
15646693	WOLFCAMP	-6556	9555	9555	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HOSS 2/11 FED COM **Well Number:** 555H

Pressure Rating (PSI): 5M **Rating Depth:** 19035

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 variable 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_20241211131933.pdf

Flex_Line_Specs_API_16C_20241211131939.pdf

BOP Diagram Attachment:

5M_BOPE_Schematic_20241211131954.pdf

Cactus_5K_WH_20241211132002.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	N	0	450	0	450	2953	2503	450	H-40	48	ST&C	3.83	8.6	DRY	14.91	DRY	25.05
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	2550	0	2550	3111	403	2550	J-55	36	LT&C	1.45	2.53	DRY	4.93	DRY	6.14
3	PRODUCTION	8.75	7.0	NEW	API	N	0	8336	0	8165	3111	-5212	8336	P-110	26	LT&C	1.54	2.47	DRY	3.2	DRY	3.83
4	PRODUCTION	4.5	4.5	NEW	API	N	8240	19035	8165	8733	-5212	-5780	10795	OTHER - RYS 110	13.5	OTHER - DCD HTQ	2.04	2.37	DRY	2.28	DRY	2.84

Casing Attachments

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HOSS 2/11 FED COM **Well Number:** 555H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375in_48__H40_STC_Csg_20241211132128.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625in_36__J55_LTC_Csg_20241211132149.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7in_26__P110_LTC_Csg_20241211132211.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HOSS 2/11 FED COM **Well Number:** 555H

Casing Attachments

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

4.5in_13.5__RYS110_CDC_HTQ_Csg_20241211132325.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	0	0
SURFACE	Lead		0	261	170	2.12	12.5	370	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		261	450	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	1879	350	2.12	12.5	750	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		1879	2550	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	3670	2350	3000	60	2.12	12.5	130	25	Class C	Salt, Gel, Extender, LCM, Defoamer
PRODUCTION	Tail		3000	3670	100	1.34	14.8	134	25	Class C	Retarder, Fluid Loss, Defoamer
PRODUCTION	Lead	3670	3670	7185	230	2.12	12.5	490	25	Class C	Salt, Gel, Extender, LCM, Defoamer
PRODUCTION	Tail		7185	19035	1400	1.18	15.6	1652	25	Class H	Retarder, Fluid Loss, Defoamer

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HOSS 2/11 FED COM **Well Number:** 555H

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: Pason/PVT/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	450	SPUD MUD	8.4	8.6							
450	2550	SALT SATURATED	10	10.2							
2550	8240	WATER-BASED MUD	8.6	9.7							
8240	19035	OIL-BASED MUD	10	12							

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HOSS 2/11 FED COM **Well Number:** 555H

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: Hoss 2/11 Fed Com #858H

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

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

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5453 **Anticipated Surface Pressure:** 3531

Anticipated Bottom Hole Temperature(F): 140

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S_Plan_20240709104808.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

HOSS_2_11_FED_COM_555H_Dir_Plan_20241211132841.pdf
HOSS_2_11_FED_COM_555H_Dir_Plot_20241211132849.pdf

Other proposed operations facets description:

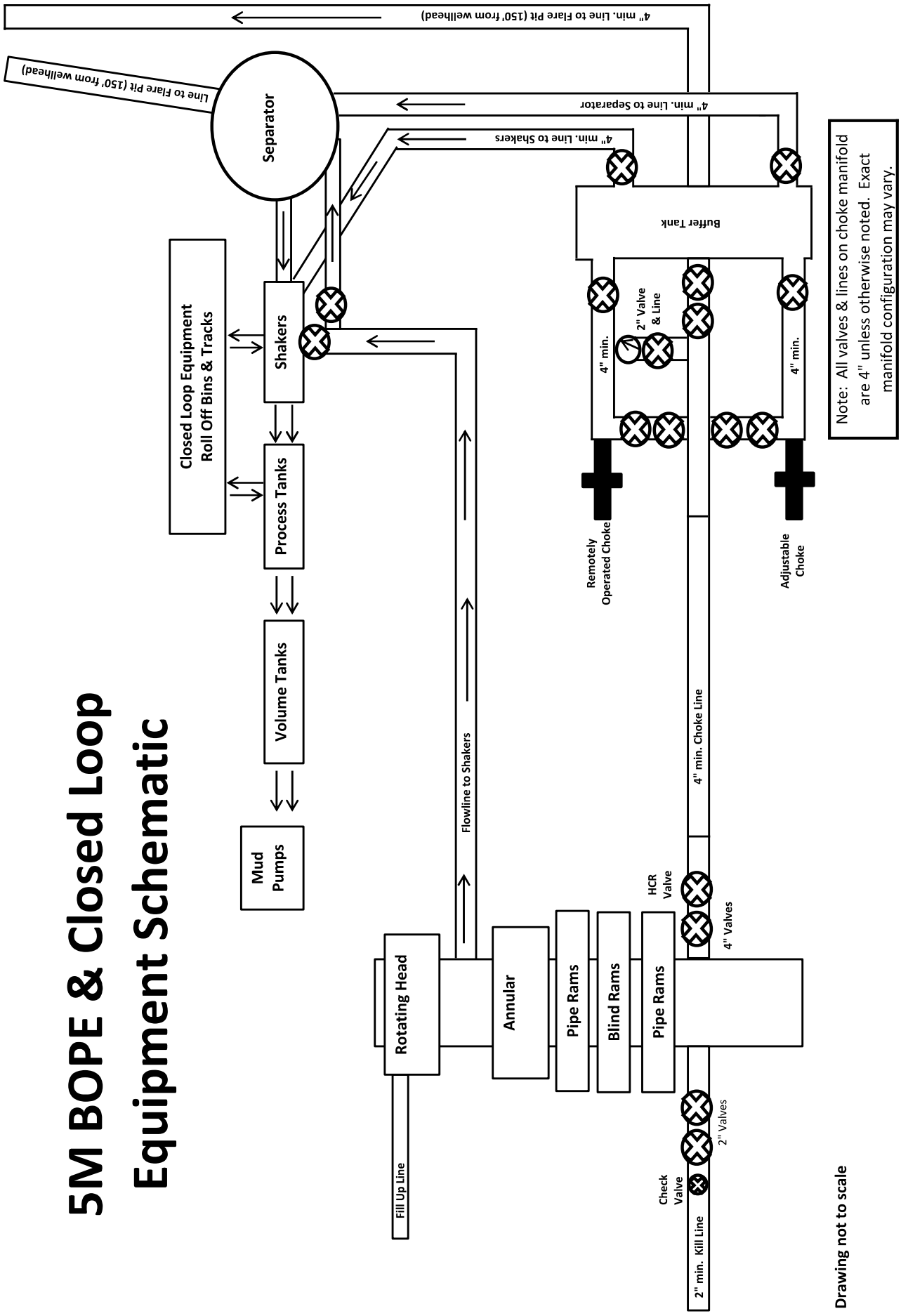
Other proposed operations facets attachment:

HOSS_2_11_FED_COM_555H_NGMP_20241107105740.pdf
EDDYBS2.0_20241107105836.pdf
Hoss_2_11_Fed_Com__555H_Drlg_Program_20241211132916.pdf
Hoss_2_11_Fed_Com__555H_AddInfo_20241211132921.pdf

Other Variance request(s)?: Y

Other Variance attachment:

MOC_Break_Testing_Variance_20240709104919.pdf
MOC_Offline_Cementing_Variance_20240709104919.pdf


5M BOPE & Closed Loop
Equipment Schematic
4" min. Line to Flare Pit (150' from wellhead)
Line to Flare Pit (150' from wellhead)
Separator
4" min. Line to Separator
4" min. Line to Shakers
Buffer Tank
Closed Loop Equipment
Roll Off Bins & Tracks
Shakers
Process Tanks
Volume Tanks
Mud Pumps
Flowline to Shakers
4" min.
2" Valve & Line
4" min.
Remotely Operated Choke
Adjustable Choke
Note: All valves & lines on choke manifold are 4" unless otherwise noted. Exact manifold configuration may vary.
4" min. Choke Line
HCR Valve
4" Valves
Rotating Head
Annular
Pipe Rams
Blind Rams
Pipe Rams
Fill Up Line
Check Valve
2" Valves
2" min. Kill Line
Drawing not to scale

LETONE

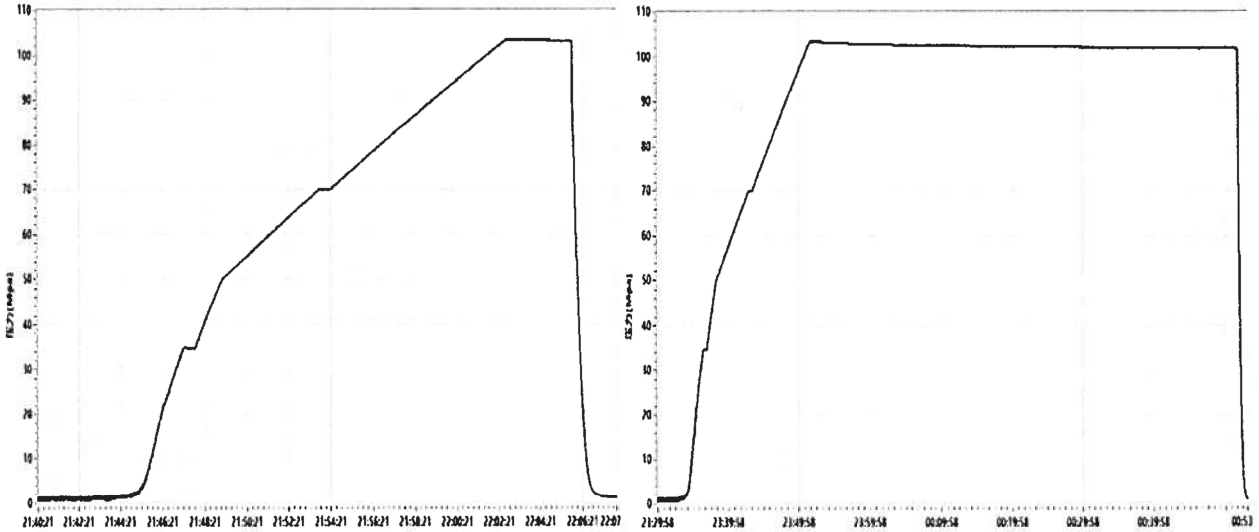
LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 230826015

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3rd 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 3rd edition				
Approver	Jiaolong Chen	Auditor	Huiqing Dong	Inspector	Zhansheng Wang

LETONE

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: 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 3rd edition
Inspection Department	Q.C. Department	Inspection date	2023.08.26

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

Approver	Jiaolong Chen	Auditor	Hinging Dong	Inspector	Zhansheng Wang

LETONE

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF CONFORMANCE

№:LT230826016

Product Name: Choke And Kill Hose

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

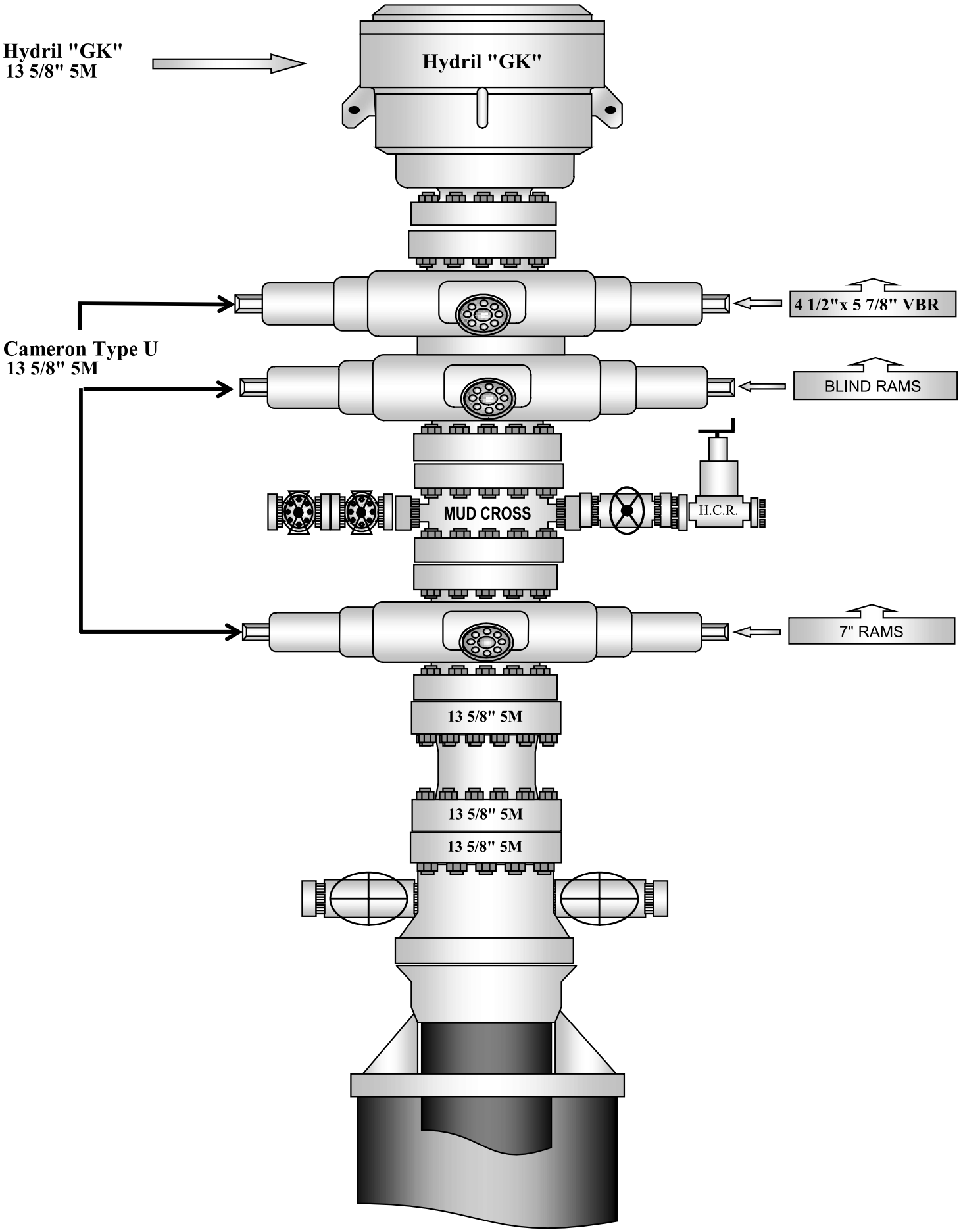
Serial Number: 7660143~7660144

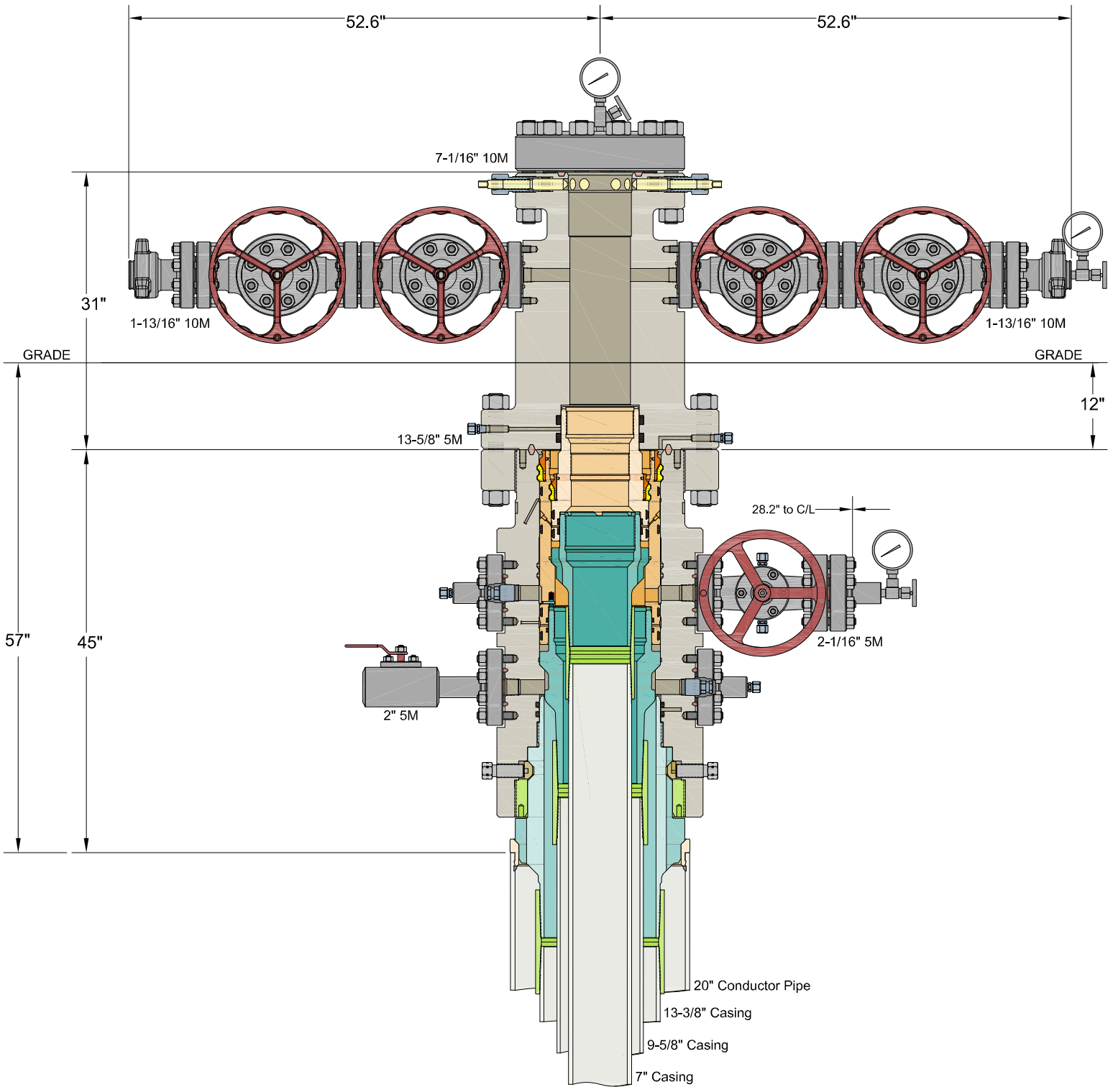
End Connections: 4-1/16″×10000psi Integral flange for sour gas service

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

5M BOPE Schematic





ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	MEWBOURNE OIL COMPANY NEW MEXICO		
20" x 13-3/8" x 9-5/8" x 7" MBU-3T-CFL-R-DBLO Wellhead System With 9-5/8" & 7" Fluted Mandrel Casing Hangers And 13-5/8" 5M x 7-1/16" 10M CTH-DBLHPS Tubing Head	DRAWN	DLE	18APR22
	APPRV		
	DRAWING NO.	HBE0000660	

Tenaris

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.	**SMYS**	40,000 psi
Wall Thickness	0.330 in.	**Plain End Weight**	46.02 lb/ft	**Min UTS**	60,000 psi
Nominal Weight	48 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	541 x1000 lb
Nominal ID	12.715 in.			**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.

Tenaris

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.	**SMYS**	55,000 psi
Wall Thickness	0.352 in.	**Plain End Weight**	34.89 lb/ft	**Min UTS**	75,000 psi
Nominal Weight	36 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	564 x1000 lb
Nominal ID	8.921 in.			**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.

Tenaris

API LTC

Coupling	Pipe Body
Grade: **P110**	Grade: **P110**
Body: **White**	1st Band: **White**
1st Band: **-**	2nd Band: **-**
2nd Band: **-**	3rd Band: **-**
3rd Band: **-**	4th Band: **-**

Outside Diameter	7.000 in.	**Wall Thickness**	0.362 in.	**Grade**	P110
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry				Performance	
Nominal OD	7.000 in.	**Drift**	6.151 in.	**SMYS**	110,000 psi
Wall Thickness	0.362 in.	**Plain End Weight**	25.69 lb/ft	**Min UTS**	125,000 psi
Nominal Weight	26 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	830 x1000 lb
Nominal ID	6.276 in.			**Min. Internal Yield Pressure**	9960 psi
				Collapse Pressure	6230 psi
				Max. Allowed Bending	72 °/100 ft

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	**Joint Strength**	693 x1000 lb	**Minimum Torque**	5200 ft-lb
Connection OD	7.875 in.	**Coupling Face Load**	799 x1000 lb	**Optimum Torque**	6930 ft-lb
Hand Tight Stand Off	3 in.	**Internal Pressure Capacity**	9960 psi	**Maximum Torque**	8660 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.

U. S. Steel Tubular Products

9/28/2023 4:23:14 PM

4.500" 13.50lb/ft (0.290" Wall) USS RYS110 USS-CDC HTQ®

MECHANICAL PROPERTIES	Pipe	USS-CDC HTQ®		--
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	120,000	--	psi	--
DIMENSIONS	**Pipe**	**USS-CDC HTQ®**		**--**
Outside Diameter	4.500	5.250	in.	--
Wall Thickness	0.290	--	in.	--
Inside Diameter	3.920	3.920	in.	--
Standard Drift	3.795	3.795	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	13.50	--	lb/ft	--
Plain End Weight	13.05	--	lb/ft	--
SECTION AREA	**Pipe**	**USS-CDC HTQ®**		**--**
Critical Area	3.836	3.836	sq. in.	--
Joint Efficiency	--	100.0	%	--
PERFORMANCE	**Pipe**	**USS-CDC HTQ®**		**--**
Minimum Collapse Pressure	10,680	10,680	psi	--
External Pressure Leak Resistance	--	8,540	psi	--
Minimum Internal Yield Pressure	12,420	12,420	psi	--
Minimum Pipe Body Yield Strength	422,000	--	lb	--
Joint Strength	--	427,800	lb	--
Compression Rating	--	256,700	lb	--
Reference Length	--	21,126	ft	--
Maximum Uniaxial Bend Rating	--	68.2	deg/100 ft	--
MAKE-UP DATA	**Pipe**	**USS-CDC HTQ®**		**--**
Make-Up Loss	--	4.44	in.	--
Minimum Make-Up Torque	--	7,000	ft-lb	--
Maximum Make-Up Torque	--	10,000	ft-lb	--
Connection Yield Torque	--	12,400	ft-lb	--

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. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3. 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.).
4. Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
5. Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Cal II.

U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com

Mewbourne Oil Company, Hoss 2/11 Fed Com 555H
Sec 2, T25S, R28E
SHL: 800' FNL 1540' FEL (Sec 2)
BHL: 100' FSL 2250' FEL (Sec 11)

Well Location **GL: 2953'**

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 800' FNL & 1540' FEL (Sec 2)	NMNM134867	0	2	25S	28E	Eddy	32.1643049	- 104.0543577	0'	0'
KOP	KOP: 10' FNL & 2250' FEL (Sec 2)	NMNM134867	0	2	25S	28E	Eddy	32.1664815	- 104.0566370	8,165'	8,240'
FTP	FTP: 100' FNL & 2250' FEL (Sec 2)	NMNM134867	0	2	25S	28E	Eddy	32.1662341	- 104.0566386	8,473'	8,565'
PPP2	PPP2: 1328' FNL & 2229' FEL (Sec 11)	NMNM016104	SWNE	11	25S	28E	Eddy	32.1483643	- 104.0566694	8,735'	15,157'
BHL	BHL: 100' FSL & 2250' FEL (Sec 11)	Fee	SWSE	11	25S	28E	Eddy	32.1377039	- 104.0566877	8,733'	19,035'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler				Yeso			
Castile				Delaware (Lamar)	2625'	Limestone/Dolomite	Oil/Natural Gas
Salt Top	1180'	Salt	None	Bell Canyon	2650'	Sandstone	Oil/Natural Gas
Marker Bed 126				Cherry Canyon	3545'	Sandstone	Oil/Natural Gas
Salt Base	2415'	Salt	None	Manzanita Marker	3670'	Limestone	Oil/Natural Gas
Yates				Basal Brushy Canyon	4852'	Sandstone	Oil/Natural Gas
Seven Rivers				Bone Spring	6385'	Limestone	Oil/Natural Gas
Queen				1st Bone Spring	7335'	Sandstone	Oil/Natural Gas
Capitan				**2nd Bone Spring**	**8125'**	**Sandstone**	**Oil/Natural Gas**
Grayburg				3rd Bone Spring	9175'	Sandstone	Oil/Natural Gas
San Andres				Wolfcamp	9555'	Shale/Sandstone/Limestone	Oil/Natural Gas

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	450'	450'	13.375" 48# H40 STC	3.83	8.60	14.91	25.05
Intermediate	12.25"	0'	0'	2550'	2550'	9.625" 36# J55 LTC	1.50	2.60	4.93	6.14
Production	8.75"	0'	0'	8240'	8165'	7" 26# P110 LTC	1.51	2.42	3.23	3.87
Production	8.5"	8240'	8165'	19035'	8733'	4.5" 13.5# RYS110 CDC HTQ	1.96	2.28	2.94	2.90

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 3rd 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 2nd 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, Hoss 2/11 Fed Com 555H
Sec 2, T25S, R28E
SHL: 800' FNL 1540' FEL (Sec 2)
BHL: 100' FSL 2250' FEL (Sec 11)

Design A - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft^3/sack	TOC/BOC	Volume, ft^3	% Excess	Slurry Description
13.375 in	LEAD	170	12.5	2.12	0' - 261'	370	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	261' - 450'	268		Class C: Retarder
9.625 in	LEAD	350	12.5	2.12	0' - 1879'	750	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1879' - 2550'	268		Class C: Retarder
7 in - 4.5 in	LEAD	230	12.5	2.12	3670' - 7185'	490	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	1400	15.6	1.18	7185' - 19035'	1652		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 3670'								
2nd Stg 7 in	LEAD	60	12.5	2.12	2350' - 3000'	130	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	3000' - 3670'	134		Class C: 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#	19,035'
		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., lb/gal	Mud Type
0' - 450'	8.4 - 8.6	Fresh Water
450' - 2550'	10.0 - 10.2	Brine
2550' - 8240'	8.6 - 9.7	Cut-Brine
8240' - 19035'	10.0 - 12.	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, Hoss 2/11 Fed Com 555H
Sec 2, T25S, R28E
SHL: 800' FNL 1540' FEL (Sec 2)
BHL: 100' FSL 2250' FEL (Sec 11)

Logging and Testing Procedures

Logging, Coring and Testing.	
N	Will run GR/CNL from KOP (8240') 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: Hoss 2/11 Fed Com 858H
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	5453 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, Hoss 2/11 Fed Com 555H
Sec 2, T25S, R28E
SHL: 800' FNL 1540' FEL (Sec 2)
BHL: 100' FSL 2250' FEL (Sec 11)

Other facets of operation

Mewbourne Oil Company also requests approval to implement additional designs as described below &/or in other attachments. BLM will be notified of elected design.

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
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt	SF Body
Surface	17.5"	0'	0'	450'	450'	13.375" 48# H40 STC	3.83	8.60	14.91	25.05
Intermediate	12.25"	0'	0'	2550'	2550'	9.625" 36# J55 LTC	1.50	2.60	4.93	6.14
Production	8.75"	0'	0'	8240'	8165'	7" 26# P110 LTC	1.51	2.42	3.23	3.87
Liner	8.5"	8040'	7971'	19035'	8733'	4.5" 13.5# P110 LTC	1.96	2.28	2.28	2.84

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.	N
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 3rd 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 2nd 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

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft³/sack	TOC/BOC	Volume, ft³	% Excess	Slurry Description
13.375 in	LEAD	170	12.5	2.12	0' - 261'	370	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	261' - 450'	268		Class C: Retarder
9.625 in	LEAD	350	12.5	2.12	0' - 1879'	750	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1879' - 2550'	268		Class C: Retarder
1st Stg 7 in	LEAD	190	12.5	2.12	3670' - 5794'	410	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	5794' - 8240'	472		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 3670'								
2nd Stg 7 in	LEAD	60	12.5	2.12	2350' - 3000'	130	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	3000' - 3670'	134		Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	700	13.5	1.85	8040' - 19035'	1300	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Mewbourne Oil Company

Eddy County, New Mexico NAD 83
Hoss 2/11 Fed Com #555H
Sec 02, T25S, R28E
SHL: 800' FNL & 1540' FEL (Sec 2)
BHL: 100' FSL & 2250' FEL (Sec 11)

Plan: Design #1

Standard Planning Report

10 December, 2024

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Hoss 2/11 Fed Com #555H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Site:	Hoss 2/11 Fed Com #555H	**North Reference:**	Grid
Well:	Sec 02, T25S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2250' FEL (Sec 11)		
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	Hoss 2/11 Fed Com #555H				
Site Position:		**Northing:**	423,621.10 usft	**Latitude:**	32.1643050
From:	Map	**Easting:**	627,662.20 usft	**Longitude:**	-104.0543577
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well	Sec 02, T25S, R28E					
Well Position	**+N/-S**	0.0 usft	**Northing:**	423,621.10 usft	**Latitude:**	32.1643050
	+E/-W	0.0 usft	**Easting:**	627,662.20 usft	**Longitude:**	-104.0543577
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	2,981.0 usft	**Ground Level:**	2,953.0 usft
Grid Convergence:		0.15 °				

Wellbore	BHL: 100' FSL & 2250' FEL (Sec 11)				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	12/31/2014	7.37	59.96	48,152.43663946

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	184.11

Plan Survey Tool Program **Date** 12/10/2024

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,035.9	Design #1 (BHL: 100' FSL & 2250		

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	
450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.00	0.00	
863.1	8.26	318.16	861.7	22.2	-19.8	2.00	2.00	0.00	318.16	
7,827.0	8.26	318.16	7,753.3	767.7	-687.5	0.00	0.00	0.00	0.00	
8,240.2	0.00	0.00	8,165.0	789.9	-707.3	2.00	-2.00	0.00	180.00	KOP: 10' FNL & 2250'
9,140.5	90.03	179.94	8,738.0	216.6	-706.7	10.00	10.00	0.00	179.94	
19,035.9	90.03	179.94	8,733.0	-9,678.8	-696.1	0.00	0.00	0.00	0.00	BHL: 100' FSL & 2250

Planning Report

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Site:	Hoss 2/11 Fed Com #555H	**North Reference:**	Grid
Well:	Sec 02, T25S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2250' FEL (Sec 11)		
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: 800' FNL & 1540' FEL (Sec 2)									
50.0	0.00	0.00	50.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
150.0	0.00	0.00	150.0	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
250.0	0.00	0.00	250.0	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
350.0	0.00	0.00	350.0	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
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	1.00	318.16	500.0	0.3	-0.3	-0.3	2.00	2.00	0.00
550.0	2.00	318.16	550.0	1.3	-1.2	-1.2	2.00	2.00	0.00
600.0	3.00	318.16	599.9	2.9	-2.6	-2.7	2.00	2.00	0.00
650.0	4.00	318.16	649.8	5.2	-4.7	-4.9	2.00	2.00	0.00
700.0	5.00	318.16	699.7	8.1	-7.3	-7.6	2.00	2.00	0.00
750.0	6.00	318.16	749.5	11.7	-10.5	-10.9	2.00	2.00	0.00
800.0	7.00	318.16	799.1	15.9	-14.2	-14.8	2.00	2.00	0.00
850.0	8.00	318.16	848.7	20.8	-18.6	-19.4	2.00	2.00	0.00
863.1	8.26	318.16	861.7	22.2	-19.8	-20.7	2.00	2.00	0.00
900.0	8.26	318.16	898.2	26.1	-23.4	-24.4	0.00	0.00	0.00
950.0	8.26	318.16	947.7	31.5	-28.2	-29.4	0.00	0.00	0.00
1,000.0	8.26	318.16	997.1	36.8	-33.0	-34.3	0.00	0.00	0.00
1,050.0	8.26	318.16	1,046.6	42.2	-37.8	-39.3	0.00	0.00	0.00
1,100.0	8.26	318.16	1,096.1	47.5	-42.5	-44.3	0.00	0.00	0.00
1,150.0	8.26	318.16	1,145.6	52.9	-47.3	-49.3	0.00	0.00	0.00
1,200.0	8.26	318.16	1,195.1	58.2	-52.1	-54.3	0.00	0.00	0.00
1,250.0	8.26	318.16	1,244.6	63.6	-56.9	-59.3	0.00	0.00	0.00
1,300.0	8.26	318.16	1,294.0	68.9	-61.7	-64.3	0.00	0.00	0.00
1,350.0	8.26	318.16	1,343.5	74.3	-66.5	-69.3	0.00	0.00	0.00
1,400.0	8.26	318.16	1,393.0	79.6	-71.3	-74.3	0.00	0.00	0.00
1,450.0	8.26	318.16	1,442.5	85.0	-76.1	-79.3	0.00	0.00	0.00
1,500.0	8.26	318.16	1,492.0	90.3	-80.9	-84.3	0.00	0.00	0.00
1,550.0	8.26	318.16	1,541.4	95.7	-85.7	-89.3	0.00	0.00	0.00
1,600.0	8.26	318.16	1,590.9	101.0	-90.5	-94.3	0.00	0.00	0.00
1,650.0	8.26	318.16	1,640.4	106.4	-95.3	-99.3	0.00	0.00	0.00
1,700.0	8.26	318.16	1,689.9	111.8	-100.1	-104.3	0.00	0.00	0.00
1,750.0	8.26	318.16	1,739.4	117.1	-104.9	-109.3	0.00	0.00	0.00
1,800.0	8.26	318.16	1,788.8	122.5	-109.7	-114.3	0.00	0.00	0.00
1,850.0	8.26	318.16	1,838.3	127.8	-114.4	-119.3	0.00	0.00	0.00
1,900.0	8.26	318.16	1,887.8	133.2	-119.2	-124.3	0.00	0.00	0.00
1,950.0	8.26	318.16	1,937.3	138.5	-124.0	-129.3	0.00	0.00	0.00
2,000.0	8.26	318.16	1,986.8	143.9	-128.8	-134.3	0.00	0.00	0.00
2,050.0	8.26	318.16	2,036.2	149.2	-133.6	-139.3	0.00	0.00	0.00
2,100.0	8.26	318.16	2,085.7	154.6	-138.4	-144.3	0.00	0.00	0.00
2,150.0	8.26	318.16	2,135.2	159.9	-143.2	-149.2	0.00	0.00	0.00
2,200.0	8.26	318.16	2,184.7	165.3	-148.0	-154.2	0.00	0.00	0.00
2,250.0	8.26	318.16	2,234.2	170.6	-152.8	-159.2	0.00	0.00	0.00
2,300.0	8.26	318.16	2,283.7	176.0	-157.6	-164.2	0.00	0.00	0.00
2,350.0	8.26	318.16	2,333.1	181.3	-162.4	-169.2	0.00	0.00	0.00
2,400.0	8.26	318.16	2,382.6	186.7	-167.2	-174.2	0.00	0.00	0.00
2,450.0	8.26	318.16	2,432.1	192.1	-172.0	-179.2	0.00	0.00	0.00
2,500.0	8.26	318.16	2,481.6	197.4	-176.8	-184.2	0.00	0.00	0.00
2,550.0	8.26	318.16	2,531.1	202.8	-181.6	-189.2	0.00	0.00	0.00

Planning Report

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Well:	Sec 02, T25S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2250' FEL (Sec 11)		
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)
2,600.0	8.26	318.16	2,580.5	208.1	-186.4	-194.2	0.00	0.00	0.00
2,650.0	8.26	318.16	2,630.0	213.5	-191.1	-199.2	0.00	0.00	0.00
2,700.0	8.26	318.16	2,679.5	218.8	-195.9	-204.2	0.00	0.00	0.00
2,750.0	8.26	318.16	2,729.0	224.2	-200.7	-209.2	0.00	0.00	0.00
2,800.0	8.26	318.16	2,778.5	229.5	-205.5	-214.2	0.00	0.00	0.00
2,850.0	8.26	318.16	2,827.9	234.9	-210.3	-219.2	0.00	0.00	0.00
2,900.0	8.26	318.16	2,877.4	240.2	-215.1	-224.2	0.00	0.00	0.00
2,950.0	8.26	318.16	2,926.9	245.6	-219.9	-229.2	0.00	0.00	0.00
3,000.0	8.26	318.16	2,976.4	250.9	-224.7	-234.2	0.00	0.00	0.00
3,050.0	8.26	318.16	3,025.9	256.3	-229.5	-239.2	0.00	0.00	0.00
3,100.0	8.26	318.16	3,075.3	261.6	-234.3	-244.2	0.00	0.00	0.00
3,150.0	8.26	318.16	3,124.8	267.0	-239.1	-249.2	0.00	0.00	0.00
3,200.0	8.26	318.16	3,174.3	272.4	-243.9	-254.2	0.00	0.00	0.00
3,250.0	8.26	318.16	3,223.8	277.7	-248.7	-259.2	0.00	0.00	0.00
3,300.0	8.26	318.16	3,273.3	283.1	-253.5	-264.1	0.00	0.00	0.00
3,350.0	8.26	318.16	3,322.8	288.4	-258.3	-269.1	0.00	0.00	0.00
3,400.0	8.26	318.16	3,372.2	293.8	-263.0	-274.1	0.00	0.00	0.00
3,450.0	8.26	318.16	3,421.7	299.1	-267.8	-279.1	0.00	0.00	0.00
3,500.0	8.26	318.16	3,471.2	304.5	-272.6	-284.1	0.00	0.00	0.00
3,550.0	8.26	318.16	3,520.7	309.8	-277.4	-289.1	0.00	0.00	0.00
3,600.0	8.26	318.16	3,570.2	315.2	-282.2	-294.1	0.00	0.00	0.00
3,650.0	8.26	318.16	3,619.6	320.5	-287.0	-299.1	0.00	0.00	0.00
3,700.0	8.26	318.16	3,669.1	325.9	-291.8	-304.1	0.00	0.00	0.00
3,750.0	8.26	318.16	3,718.6	331.2	-296.6	-309.1	0.00	0.00	0.00
3,800.0	8.26	318.16	3,768.1	336.6	-301.4	-314.1	0.00	0.00	0.00
3,850.0	8.26	318.16	3,817.6	341.9	-306.2	-319.1	0.00	0.00	0.00
3,900.0	8.26	318.16	3,867.0	347.3	-311.0	-324.1	0.00	0.00	0.00
3,950.0	8.26	318.16	3,916.5	352.7	-315.8	-329.1	0.00	0.00	0.00
4,000.0	8.26	318.16	3,966.0	358.0	-320.6	-334.1	0.00	0.00	0.00
4,050.0	8.26	318.16	4,015.5	363.4	-325.4	-339.1	0.00	0.00	0.00
4,100.0	8.26	318.16	4,065.0	368.7	-330.2	-344.1	0.00	0.00	0.00
4,150.0	8.26	318.16	4,114.4	374.1	-334.9	-349.1	0.00	0.00	0.00
4,200.0	8.26	318.16	4,163.9	379.4	-339.7	-354.1	0.00	0.00	0.00
4,250.0	8.26	318.16	4,213.4	384.8	-344.5	-359.1	0.00	0.00	0.00
4,300.0	8.26	318.16	4,262.9	390.1	-349.3	-364.1	0.00	0.00	0.00
4,350.0	8.26	318.16	4,312.4	395.5	-354.1	-369.1	0.00	0.00	0.00
4,400.0	8.26	318.16	4,361.9	400.8	-358.9	-374.1	0.00	0.00	0.00
4,450.0	8.26	318.16	4,411.3	406.2	-363.7	-379.0	0.00	0.00	0.00
4,500.0	8.26	318.16	4,460.8	411.5	-368.5	-384.0	0.00	0.00	0.00
4,550.0	8.26	318.16	4,510.3	416.9	-373.3	-389.0	0.00	0.00	0.00
4,600.0	8.26	318.16	4,559.8	422.2	-378.1	-394.0	0.00	0.00	0.00
4,650.0	8.26	318.16	4,609.3	427.6	-382.9	-399.0	0.00	0.00	0.00
4,700.0	8.26	318.16	4,658.7	433.0	-387.7	-404.0	0.00	0.00	0.00
4,750.0	8.26	318.16	4,708.2	438.3	-392.5	-409.0	0.00	0.00	0.00
4,800.0	8.26	318.16	4,757.7	443.7	-397.3	-414.0	0.00	0.00	0.00
4,850.0	8.26	318.16	4,807.2	449.0	-402.1	-419.0	0.00	0.00	0.00
4,900.0	8.26	318.16	4,856.7	454.4	-406.9	-424.0	0.00	0.00	0.00
4,950.0	8.26	318.16	4,906.1	459.7	-411.6	-429.0	0.00	0.00	0.00
5,000.0	8.26	318.16	4,955.6	465.1	-416.4	-434.0	0.00	0.00	0.00
5,050.0	8.26	318.16	5,005.1	470.4	-421.2	-439.0	0.00	0.00	0.00
5,100.0	8.26	318.16	5,054.6	475.8	-426.0	-444.0	0.00	0.00	0.00
5,150.0	8.26	318.16	5,104.1	481.1	-430.8	-449.0	0.00	0.00	0.00
5,200.0	8.26	318.16	5,153.5	486.5	-435.6	-454.0	0.00	0.00	0.00
5,250.0	8.26	318.16	5,203.0	491.8	-440.4	-459.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Hoss 2/11 Fed Com #555H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Site:	Hoss 2/11 Fed Com #555H	**North Reference:**	Grid
Well:	Sec 02, T25S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2250' FEL (Sec 11)		
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)
5,300.0	8.26	318.16	5,252.5	497.2	-445.2	-464.0	0.00	0.00	0.00
5,350.0	8.26	318.16	5,302.0	502.5	-450.0	-469.0	0.00	0.00	0.00
5,400.0	8.26	318.16	5,351.5	507.9	-454.8	-474.0	0.00	0.00	0.00
5,450.0	8.26	318.16	5,401.0	513.2	-459.6	-479.0	0.00	0.00	0.00
5,500.0	8.26	318.16	5,450.4	518.6	-464.4	-484.0	0.00	0.00	0.00
5,550.0	8.26	318.16	5,499.9	524.0	-469.2	-489.0	0.00	0.00	0.00
5,600.0	8.26	318.16	5,549.4	529.3	-474.0	-493.9	0.00	0.00	0.00
5,650.0	8.26	318.16	5,598.9	534.7	-478.8	-498.9	0.00	0.00	0.00
5,700.0	8.26	318.16	5,648.4	540.0	-483.5	-503.9	0.00	0.00	0.00
5,750.0	8.26	318.16	5,697.8	545.4	-488.3	-508.9	0.00	0.00	0.00
5,800.0	8.26	318.16	5,747.3	550.7	-493.1	-513.9	0.00	0.00	0.00
5,850.0	8.26	318.16	5,796.8	556.1	-497.9	-518.9	0.00	0.00	0.00
5,900.0	8.26	318.16	5,846.3	561.4	-502.7	-523.9	0.00	0.00	0.00
5,950.0	8.26	318.16	5,895.8	566.8	-507.5	-528.9	0.00	0.00	0.00
6,000.0	8.26	318.16	5,945.2	572.1	-512.3	-533.9	0.00	0.00	0.00
6,050.0	8.26	318.16	5,994.7	577.5	-517.1	-538.9	0.00	0.00	0.00
6,100.0	8.26	318.16	6,044.2	582.8	-521.9	-543.9	0.00	0.00	0.00
6,150.0	8.26	318.16	6,093.7	588.2	-526.7	-548.9	0.00	0.00	0.00
6,200.0	8.26	318.16	6,143.2	593.5	-531.5	-553.9	0.00	0.00	0.00
6,250.0	8.26	318.16	6,192.6	598.9	-536.3	-558.9	0.00	0.00	0.00
6,300.0	8.26	318.16	6,242.1	604.3	-541.1	-563.9	0.00	0.00	0.00
6,350.0	8.26	318.16	6,291.6	609.6	-545.9	-568.9	0.00	0.00	0.00
6,400.0	8.26	318.16	6,341.1	615.0	-550.7	-573.9	0.00	0.00	0.00
6,450.0	8.26	318.16	6,390.6	620.3	-555.4	-578.9	0.00	0.00	0.00
6,500.0	8.26	318.16	6,440.1	625.7	-560.2	-583.9	0.00	0.00	0.00
6,550.0	8.26	318.16	6,489.5	631.0	-565.0	-588.9	0.00	0.00	0.00
6,600.0	8.26	318.16	6,539.0	636.4	-569.8	-593.9	0.00	0.00	0.00
6,650.0	8.26	318.16	6,588.5	641.7	-574.6	-598.9	0.00	0.00	0.00
6,700.0	8.26	318.16	6,638.0	647.1	-579.4	-603.8	0.00	0.00	0.00
6,750.0	8.26	318.16	6,687.5	652.4	-584.2	-608.8	0.00	0.00	0.00
6,800.0	8.26	318.16	6,736.9	657.8	-589.0	-613.8	0.00	0.00	0.00
6,850.0	8.26	318.16	6,786.4	663.1	-593.8	-618.8	0.00	0.00	0.00
6,900.0	8.26	318.16	6,835.9	668.5	-598.6	-623.8	0.00	0.00	0.00
6,950.0	8.26	318.16	6,885.4	673.8	-603.4	-628.8	0.00	0.00	0.00
7,000.0	8.26	318.16	6,934.9	679.2	-608.2	-633.8	0.00	0.00	0.00
7,050.0	8.26	318.16	6,984.3	684.6	-613.0	-638.8	0.00	0.00	0.00
7,100.0	8.26	318.16	7,033.8	689.9	-617.8	-643.8	0.00	0.00	0.00
7,150.0	8.26	318.16	7,083.3	695.3	-622.6	-648.8	0.00	0.00	0.00
7,200.0	8.26	318.16	7,132.8	700.6	-627.4	-653.8	0.00	0.00	0.00
7,250.0	8.26	318.16	7,182.3	706.0	-632.1	-658.8	0.00	0.00	0.00
7,300.0	8.26	318.16	7,231.7	711.3	-636.9	-663.8	0.00	0.00	0.00
7,350.0	8.26	318.16	7,281.2	716.7	-641.7	-668.8	0.00	0.00	0.00
7,400.0	8.26	318.16	7,330.7	722.0	-646.5	-673.8	0.00	0.00	0.00
7,450.0	8.26	318.16	7,380.2	727.4	-651.3	-678.8	0.00	0.00	0.00
7,500.0	8.26	318.16	7,429.7	732.7	-656.1	-683.8	0.00	0.00	0.00
7,550.0	8.26	318.16	7,479.2	738.1	-660.9	-688.8	0.00	0.00	0.00
7,600.0	8.26	318.16	7,528.6	743.4	-665.7	-693.8	0.00	0.00	0.00
7,650.0	8.26	318.16	7,578.1	748.8	-670.5	-698.8	0.00	0.00	0.00
7,700.0	8.26	318.16	7,627.6	754.1	-675.3	-703.8	0.00	0.00	0.00
7,750.0	8.26	318.16	7,677.1	759.5	-680.1	-708.8	0.00	0.00	0.00
7,800.0	8.26	318.16	7,726.6	764.9	-684.9	-713.8	0.00	0.00	0.00
7,827.0	8.26	318.16	7,753.3	767.7	-687.5	-716.5	0.00	0.00	0.00
7,850.0	7.80	318.16	7,776.1	770.1	-689.6	-718.7	2.00	-2.00	0.00
7,900.0	6.80	318.16	7,825.6	774.9	-693.8	-723.1	2.00	-2.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Hoss 2/11 Fed Com #555H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Site:	Hoss 2/11 Fed Com #555H	**North Reference:**	Grid
Well:	Sec 02, T25S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2250' FEL (Sec 11)		
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)
7,950.0	5.80	318.16	7,875.3	779.0	-697.5	-726.9	2.00	-2.00	0.00
8,000.0	4.80	318.16	7,925.1	782.4	-700.6	-730.1	2.00	-2.00	0.00
8,050.0	3.80	318.16	7,975.0	785.2	-703.1	-732.7	2.00	-2.00	0.00
8,100.0	2.80	318.16	8,024.9	787.3	-705.0	-734.7	2.00	-2.00	0.00
8,150.0	1.80	318.16	8,074.9	788.8	-706.4	-736.1	2.00	-2.00	0.00
8,200.0	0.80	318.16	8,124.8	789.7	-707.1	-736.9	2.00	-2.00	0.00
8,240.2	0.00	0.00	8,165.0	789.9	-707.3	-737.1	2.00	-2.00	0.00
KOP: 10' FNL & 2250' FEL (Sec 2)									
8,250.0	0.98	179.94	8,174.8	789.8	-707.3	-737.0	10.00	10.00	0.00
8,300.0	5.98	179.94	8,224.7	786.8	-707.3	-734.0	10.00	10.00	0.00
8,350.0	10.98	179.94	8,274.2	779.4	-707.3	-726.7	10.00	10.00	0.00
8,400.0	15.98	179.94	8,322.8	767.7	-707.3	-715.0	10.00	10.00	0.00
8,450.0	20.98	179.94	8,370.2	751.9	-707.3	-699.2	10.00	10.00	0.00
8,500.0	25.98	179.94	8,416.0	732.0	-707.2	-679.4	10.00	10.00	0.00
8,550.0	30.98	179.94	8,460.0	708.1	-707.2	-655.6	10.00	10.00	0.00
8,565.5	32.53	179.94	8,473.1	700.0	-707.2	-647.5	10.00	10.00	0.00
FTP: 100' FNL & 2250' FEL (Sec 2)									
8,600.0	35.98	179.94	8,501.7	680.6	-707.2	-628.1	10.00	10.00	0.00
8,650.0	40.98	179.94	8,540.8	649.5	-707.1	-597.1	10.00	10.00	0.00
8,700.0	45.98	179.94	8,577.1	615.1	-707.1	-562.8	10.00	10.00	0.00
8,750.0	50.98	179.94	8,610.2	577.6	-707.1	-525.4	10.00	10.00	0.00
8,800.0	55.98	179.94	8,639.9	537.5	-707.0	-485.4	10.00	10.00	0.00
8,850.0	60.98	179.94	8,666.1	494.9	-707.0	-442.9	10.00	10.00	0.00
8,900.0	65.98	179.94	8,688.4	450.1	-706.9	-398.3	10.00	10.00	0.00
8,950.0	70.98	179.94	8,706.7	403.6	-706.9	-351.9	10.00	10.00	0.00
9,000.0	75.98	179.94	8,720.9	355.7	-706.8	-304.1	10.00	10.00	0.00
9,050.0	80.98	179.94	8,730.9	306.7	-706.8	-255.3	10.00	10.00	0.00
9,100.0	85.98	179.94	8,736.6	257.1	-706.7	-205.7	10.00	10.00	0.00
9,140.2	90.00	179.94	8,738.0	216.9	-706.7	-165.7	10.00	10.00	0.00
LP: 583' FNL & 2250' FEL (Sec 2)									
9,140.5	90.03	179.94	8,738.0	216.6	-706.7	-165.4	10.00	10.00	0.00
9,150.0	90.03	179.94	8,738.0	207.1	-706.7	-155.9	0.00	0.00	0.00
9,200.0	90.03	179.94	8,738.0	157.1	-706.6	-106.0	0.00	0.00	0.00
9,250.0	90.03	179.94	8,737.9	107.1	-706.6	-56.2	0.00	0.00	0.00
9,300.0	90.03	179.94	8,737.9	57.1	-706.5	-6.3	0.00	0.00	0.00
9,350.0	90.03	179.94	8,737.9	7.1	-706.5	43.6	0.00	0.00	0.00
9,400.0	90.03	179.94	8,737.9	-42.9	-706.4	93.4	0.00	0.00	0.00
9,450.0	90.03	179.94	8,737.8	-92.9	-706.4	143.3	0.00	0.00	0.00
9,500.0	90.03	179.94	8,737.8	-142.9	-706.3	193.2	0.00	0.00	0.00
9,550.0	90.03	179.94	8,737.8	-192.9	-706.2	243.0	0.00	0.00	0.00
9,600.0	90.03	179.94	8,737.8	-242.9	-706.2	292.9	0.00	0.00	0.00
9,650.0	90.03	179.94	8,737.7	-292.9	-706.1	342.8	0.00	0.00	0.00
9,700.0	90.03	179.94	8,737.7	-342.9	-706.1	392.6	0.00	0.00	0.00
9,750.0	90.03	179.94	8,737.7	-392.9	-706.0	442.5	0.00	0.00	0.00
9,800.0	90.03	179.94	8,737.7	-442.9	-706.0	492.4	0.00	0.00	0.00
9,850.0	90.03	179.94	8,737.6	-492.9	-705.9	542.3	0.00	0.00	0.00
9,900.0	90.03	179.94	8,737.6	-542.9	-705.9	592.1	0.00	0.00	0.00
9,950.0	90.03	179.94	8,737.6	-592.9	-705.8	642.0	0.00	0.00	0.00
10,000.0	90.03	179.94	8,737.6	-642.9	-705.8	691.9	0.00	0.00	0.00
10,050.0	90.03	179.94	8,737.5	-692.9	-705.7	741.7	0.00	0.00	0.00
10,100.0	90.03	179.94	8,737.5	-742.9	-705.7	791.6	0.00	0.00	0.00
10,150.0	90.03	179.94	8,737.5	-792.9	-705.6	841.5	0.00	0.00	0.00
10,200.0	90.03	179.94	8,737.5	-842.9	-705.6	891.3	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Hoss 2/11 Fed Com #555H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Site:	Hoss 2/11 Fed Com #555H	**North Reference:**	Grid
Well:	Sec 02, T25S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2250' FEL (Sec 11)		
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)
10,250.0	90.03	179.94	8,737.4	-892.9	-705.5	941.2	0.00	0.00	0.00
10,300.0	90.03	179.94	8,737.4	-942.9	-705.4	991.1	0.00	0.00	0.00
10,350.0	90.03	179.94	8,737.4	-992.9	-705.4	1,040.9	0.00	0.00	0.00
10,400.0	90.03	179.94	8,737.4	-1,042.9	-705.3	1,090.8	0.00	0.00	0.00
10,450.0	90.03	179.94	8,737.3	-1,092.9	-705.3	1,140.7	0.00	0.00	0.00
10,500.0	90.03	179.94	8,737.3	-1,142.9	-705.2	1,190.5	0.00	0.00	0.00
10,550.0	90.03	179.94	8,737.3	-1,192.9	-705.2	1,240.4	0.00	0.00	0.00
10,600.0	90.03	179.94	8,737.3	-1,242.9	-705.1	1,290.3	0.00	0.00	0.00
10,650.0	90.03	179.94	8,737.2	-1,292.9	-705.1	1,340.1	0.00	0.00	0.00
10,700.0	90.03	179.94	8,737.2	-1,342.9	-705.0	1,390.0	0.00	0.00	0.00
10,750.0	90.03	179.94	8,737.2	-1,392.9	-705.0	1,439.9	0.00	0.00	0.00
10,800.0	90.03	179.94	8,737.2	-1,442.9	-704.9	1,489.7	0.00	0.00	0.00
10,850.0	90.03	179.94	8,737.1	-1,492.9	-704.9	1,539.6	0.00	0.00	0.00
10,900.0	90.03	179.94	8,737.1	-1,542.9	-704.8	1,589.5	0.00	0.00	0.00
10,950.0	90.03	179.94	8,737.1	-1,592.9	-704.8	1,639.3	0.00	0.00	0.00
11,000.0	90.03	179.94	8,737.1	-1,642.9	-704.7	1,689.2	0.00	0.00	0.00
11,050.0	90.03	179.94	8,737.0	-1,692.9	-704.6	1,739.1	0.00	0.00	0.00
11,100.0	90.03	179.94	8,737.0	-1,742.9	-704.6	1,788.9	0.00	0.00	0.00
11,150.0	90.03	179.94	8,737.0	-1,792.9	-704.5	1,838.8	0.00	0.00	0.00
11,200.0	90.03	179.94	8,737.0	-1,842.9	-704.5	1,888.7	0.00	0.00	0.00
11,250.0	90.03	179.94	8,736.9	-1,892.9	-704.4	1,938.5	0.00	0.00	0.00
11,300.0	90.03	179.94	8,736.9	-1,942.9	-704.4	1,988.4	0.00	0.00	0.00
11,350.0	90.03	179.94	8,736.9	-1,992.9	-704.3	2,038.3	0.00	0.00	0.00
11,400.0	90.03	179.94	8,736.9	-2,042.9	-704.3	2,088.1	0.00	0.00	0.00
11,450.0	90.03	179.94	8,736.8	-2,092.9	-704.2	2,138.0	0.00	0.00	0.00
11,500.0	90.03	179.94	8,736.8	-2,142.9	-704.2	2,187.9	0.00	0.00	0.00
11,550.0	90.03	179.94	8,736.8	-2,192.9	-704.1	2,237.7	0.00	0.00	0.00
11,600.0	90.03	179.94	8,736.8	-2,242.9	-704.1	2,287.6	0.00	0.00	0.00
11,650.0	90.03	179.94	8,736.7	-2,292.9	-704.0	2,337.5	0.00	0.00	0.00
11,700.0	90.03	179.94	8,736.7	-2,342.9	-703.9	2,387.3	0.00	0.00	0.00
11,750.0	90.03	179.94	8,736.7	-2,392.9	-703.9	2,437.2	0.00	0.00	0.00
11,800.0	90.03	179.94	8,736.7	-2,442.9	-703.8	2,487.1	0.00	0.00	0.00
11,850.0	90.03	179.94	8,736.6	-2,492.9	-703.8	2,536.9	0.00	0.00	0.00
11,900.0	90.03	179.94	8,736.6	-2,542.9	-703.7	2,586.8	0.00	0.00	0.00
11,950.0	90.03	179.94	8,736.6	-2,592.9	-703.7	2,636.7	0.00	0.00	0.00
12,000.0	90.03	179.94	8,736.6	-2,642.9	-703.6	2,686.5	0.00	0.00	0.00
12,050.0	90.03	179.94	8,736.5	-2,692.9	-703.6	2,736.4	0.00	0.00	0.00
12,100.0	90.03	179.94	8,736.5	-2,742.9	-703.5	2,786.3	0.00	0.00	0.00
12,150.0	90.03	179.94	8,736.5	-2,792.9	-703.5	2,836.1	0.00	0.00	0.00
12,200.0	90.03	179.94	8,736.5	-2,842.9	-703.4	2,886.0	0.00	0.00	0.00
12,250.0	90.03	179.94	8,736.4	-2,892.9	-703.4	2,935.9	0.00	0.00	0.00
12,300.0	90.03	179.94	8,736.4	-2,942.9	-703.3	2,985.7	0.00	0.00	0.00
12,350.0	90.03	179.94	8,736.4	-2,992.9	-703.3	3,035.6	0.00	0.00	0.00
12,400.0	90.03	179.94	8,736.4	-3,042.9	-703.2	3,085.5	0.00	0.00	0.00
12,450.0	90.03	179.94	8,736.3	-3,092.9	-703.1	3,135.4	0.00	0.00	0.00
12,500.0	90.03	179.94	8,736.3	-3,142.9	-703.1	3,185.2	0.00	0.00	0.00
12,550.0	90.03	179.94	8,736.3	-3,192.9	-703.0	3,235.1	0.00	0.00	0.00
12,600.0	90.03	179.94	8,736.3	-3,242.9	-703.0	3,285.0	0.00	0.00	0.00
12,650.0	90.03	179.94	8,736.2	-3,292.9	-702.9	3,334.8	0.00	0.00	0.00
12,700.0	90.03	179.94	8,736.2	-3,342.9	-702.9	3,384.7	0.00	0.00	0.00
12,750.0	90.03	179.94	8,736.2	-3,392.9	-702.8	3,434.6	0.00	0.00	0.00
12,800.0	90.03	179.94	8,736.2	-3,442.9	-702.8	3,484.4	0.00	0.00	0.00
12,850.0	90.03	179.94	8,736.1	-3,492.9	-702.7	3,534.3	0.00	0.00	0.00
12,900.0	90.03	179.94	8,736.1	-3,542.9	-702.7	3,584.2	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Hoss 2/11 Fed Com #555H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Site:	Hoss 2/11 Fed Com #555H	**North Reference:**	Grid
Well:	Sec 02, T25S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2250' FEL (Sec 11)		
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)
12,950.0	90.03	179.94	8,736.1	-3,592.9	-702.6	3,634.0	0.00	0.00	0.00
13,000.0	90.03	179.94	8,736.0	-3,642.9	-702.6	3,683.9	0.00	0.00	0.00
13,050.0	90.03	179.94	8,736.0	-3,692.9	-702.5	3,733.8	0.00	0.00	0.00
13,100.0	90.03	179.94	8,736.0	-3,742.9	-702.5	3,783.6	0.00	0.00	0.00
13,150.0	90.03	179.94	8,736.0	-3,792.9	-702.4	3,833.5	0.00	0.00	0.00
13,200.0	90.03	179.94	8,735.9	-3,842.9	-702.3	3,883.4	0.00	0.00	0.00
13,250.0	90.03	179.94	8,735.9	-3,892.9	-702.3	3,933.2	0.00	0.00	0.00
13,300.0	90.03	179.94	8,735.9	-3,942.9	-702.2	3,983.1	0.00	0.00	0.00
13,350.0	90.03	179.94	8,735.9	-3,992.9	-702.2	4,033.0	0.00	0.00	0.00
13,400.0	90.03	179.94	8,735.8	-4,042.9	-702.1	4,082.8	0.00	0.00	0.00
13,450.0	90.03	179.94	8,735.8	-4,092.9	-702.1	4,132.7	0.00	0.00	0.00
13,500.0	90.03	179.94	8,735.8	-4,142.9	-702.0	4,182.6	0.00	0.00	0.00
13,550.0	90.03	179.94	8,735.8	-4,192.9	-702.0	4,232.4	0.00	0.00	0.00
13,600.0	90.03	179.94	8,735.7	-4,242.9	-701.9	4,282.3	0.00	0.00	0.00
13,650.0	90.03	179.94	8,735.7	-4,292.9	-701.9	4,332.2	0.00	0.00	0.00
13,700.0	90.03	179.94	8,735.7	-4,342.9	-701.8	4,382.0	0.00	0.00	0.00
13,750.0	90.03	179.94	8,735.7	-4,392.9	-701.8	4,431.9	0.00	0.00	0.00
13,800.0	90.03	179.94	8,735.6	-4,442.9	-701.7	4,481.8	0.00	0.00	0.00
13,850.0	90.03	179.94	8,735.6	-4,492.9	-701.6	4,531.6	0.00	0.00	0.00
13,900.0	90.03	179.94	8,735.6	-4,542.9	-701.6	4,581.5	0.00	0.00	0.00
13,950.0	90.03	179.94	8,735.6	-4,592.9	-701.5	4,631.4	0.00	0.00	0.00
14,000.0	90.03	179.94	8,735.5	-4,642.9	-701.5	4,681.2	0.00	0.00	0.00
14,050.0	90.03	179.94	8,735.5	-4,692.9	-701.4	4,731.1	0.00	0.00	0.00
14,100.0	90.03	179.94	8,735.5	-4,742.9	-701.4	4,781.0	0.00	0.00	0.00
14,150.0	90.03	179.94	8,735.5	-4,792.9	-701.3	4,830.8	0.00	0.00	0.00
14,200.0	90.03	179.94	8,735.4	-4,842.9	-701.3	4,880.7	0.00	0.00	0.00
14,250.0	90.03	179.94	8,735.4	-4,892.9	-701.2	4,930.6	0.00	0.00	0.00
14,300.0	90.03	179.94	8,735.4	-4,942.9	-701.2	4,980.4	0.00	0.00	0.00
14,350.0	90.03	179.94	8,735.4	-4,992.9	-701.1	5,030.3	0.00	0.00	0.00
14,400.0	90.03	179.94	8,735.3	-5,042.9	-701.1	5,080.2	0.00	0.00	0.00
14,450.0	90.03	179.94	8,735.3	-5,092.9	-701.0	5,130.0	0.00	0.00	0.00
14,500.0	90.03	179.94	8,735.3	-5,142.9	-701.0	5,179.9	0.00	0.00	0.00
14,550.0	90.03	179.94	8,735.3	-5,192.9	-700.9	5,229.8	0.00	0.00	0.00
14,600.0	90.03	179.94	8,735.2	-5,242.9	-700.8	5,279.6	0.00	0.00	0.00
14,650.0	90.03	179.94	8,735.2	-5,292.9	-700.8	5,329.5	0.00	0.00	0.00
14,700.0	90.03	179.94	8,735.2	-5,342.9	-700.7	5,379.4	0.00	0.00	0.00
14,750.0	90.03	179.94	8,735.2	-5,392.9	-700.7	5,429.2	0.00	0.00	0.00
14,800.0	90.03	179.94	8,735.1	-5,442.9	-700.6	5,479.1	0.00	0.00	0.00
14,850.0	90.03	179.94	8,735.1	-5,492.9	-700.6	5,529.0	0.00	0.00	0.00
14,900.0	90.03	179.94	8,735.1	-5,542.9	-700.5	5,578.8	0.00	0.00	0.00
14,950.0	90.03	179.94	8,735.1	-5,592.9	-700.5	5,628.7	0.00	0.00	0.00
15,000.0	90.03	179.94	8,735.0	-5,642.9	-700.4	5,678.6	0.00	0.00	0.00
15,050.0	90.03	179.94	8,735.0	-5,692.9	-700.4	5,728.5	0.00	0.00	0.00
15,100.0	90.03	179.94	8,735.0	-5,742.9	-700.3	5,778.3	0.00	0.00	0.00
15,150.0	90.03	179.94	8,735.0	-5,792.9	-700.3	5,828.2	0.00	0.00	0.00
15,157.8	90.03	179.94	8,735.0	-5,800.7	-700.2	5,836.0	0.00	0.00	0.00
PPP2: 1328' FNL & 2229' FEL (Sec 11)									
15,200.0	90.03	179.94	8,734.9	-5,842.9	-700.2	5,878.1	0.00	0.00	0.00
15,250.0	90.03	179.94	8,734.9	-5,892.9	-700.2	5,927.9	0.00	0.00	0.00
15,300.0	90.03	179.94	8,734.9	-5,942.9	-700.1	5,977.8	0.00	0.00	0.00
15,350.0	90.03	179.94	8,734.9	-5,992.9	-700.0	6,027.7	0.00	0.00	0.00
15,400.0	90.03	179.94	8,734.8	-6,042.9	-700.0	6,077.5	0.00	0.00	0.00
15,450.0	90.03	179.94	8,734.8	-6,092.9	-699.9	6,127.4	0.00	0.00	0.00
15,500.0	90.03	179.94	8,734.8	-6,142.9	-699.9	6,177.3	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Hoss 2/11 Fed Com #555H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Site:	Hoss 2/11 Fed Com #555H	**North Reference:**	Grid
Well:	Sec 02, T25S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2250' FEL (Sec 11)		
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)
15,550.0	90.03	179.94	8,734.8	-6,192.9	-699.8	6,227.1	0.00	0.00	0.00
15,600.0	90.03	179.94	8,734.7	-6,242.9	-699.8	6,277.0	0.00	0.00	0.00
15,650.0	90.03	179.94	8,734.7	-6,292.9	-699.7	6,326.9	0.00	0.00	0.00
15,700.0	90.03	179.94	8,734.7	-6,342.9	-699.7	6,376.7	0.00	0.00	0.00
15,750.0	90.03	179.94	8,734.7	-6,392.9	-699.6	6,426.6	0.00	0.00	0.00
15,800.0	90.03	179.94	8,734.6	-6,442.9	-699.6	6,476.5	0.00	0.00	0.00
15,850.0	90.03	179.94	8,734.6	-6,492.9	-699.5	6,526.3	0.00	0.00	0.00
15,900.0	90.03	179.94	8,734.6	-6,542.9	-699.5	6,576.2	0.00	0.00	0.00
15,950.0	90.03	179.94	8,734.6	-6,592.9	-699.4	6,626.1	0.00	0.00	0.00
16,000.0	90.03	179.94	8,734.5	-6,642.9	-699.3	6,675.9	0.00	0.00	0.00
16,050.0	90.03	179.94	8,734.5	-6,692.9	-699.3	6,725.8	0.00	0.00	0.00
16,100.0	90.03	179.94	8,734.5	-6,742.9	-699.2	6,775.7	0.00	0.00	0.00
16,150.0	90.03	179.94	8,734.5	-6,792.9	-699.2	6,825.5	0.00	0.00	0.00
16,200.0	90.03	179.94	8,734.4	-6,842.9	-699.1	6,875.4	0.00	0.00	0.00
16,250.0	90.03	179.94	8,734.4	-6,892.9	-699.1	6,925.3	0.00	0.00	0.00
16,300.0	90.03	179.94	8,734.4	-6,942.9	-699.0	6,975.1	0.00	0.00	0.00
16,350.0	90.03	179.94	8,734.4	-6,992.9	-699.0	7,025.0	0.00	0.00	0.00
16,400.0	90.03	179.94	8,734.3	-7,042.9	-698.9	7,074.9	0.00	0.00	0.00
16,450.0	90.03	179.94	8,734.3	-7,092.9	-698.9	7,124.7	0.00	0.00	0.00
16,500.0	90.03	179.94	8,734.3	-7,142.9	-698.8	7,174.6	0.00	0.00	0.00
16,550.0	90.03	179.94	8,734.3	-7,192.9	-698.8	7,224.5	0.00	0.00	0.00
16,600.0	90.03	179.94	8,734.2	-7,242.9	-698.7	7,274.3	0.00	0.00	0.00
16,650.0	90.03	179.94	8,734.2	-7,292.9	-698.7	7,324.2	0.00	0.00	0.00
16,700.0	90.03	179.94	8,734.2	-7,342.9	-698.6	7,374.1	0.00	0.00	0.00
16,750.0	90.03	179.94	8,734.2	-7,392.9	-698.5	7,423.9	0.00	0.00	0.00
16,800.0	90.03	179.94	8,734.1	-7,442.9	-698.5	7,473.8	0.00	0.00	0.00
16,850.0	90.03	179.94	8,734.1	-7,492.9	-698.4	7,523.7	0.00	0.00	0.00
16,900.0	90.03	179.94	8,734.1	-7,542.9	-698.4	7,573.5	0.00	0.00	0.00
16,950.0	90.03	179.94	8,734.1	-7,592.9	-698.3	7,623.4	0.00	0.00	0.00
17,000.0	90.03	179.94	8,734.0	-7,642.9	-698.3	7,673.3	0.00	0.00	0.00
17,050.0	90.03	179.94	8,734.0	-7,692.9	-698.2	7,723.1	0.00	0.00	0.00
17,100.0	90.03	179.94	8,734.0	-7,742.9	-698.2	7,773.0	0.00	0.00	0.00
17,150.0	90.03	179.94	8,734.0	-7,792.9	-698.1	7,822.9	0.00	0.00	0.00
17,200.0	90.03	179.94	8,733.9	-7,842.9	-698.1	7,872.7	0.00	0.00	0.00
17,250.0	90.03	179.94	8,733.9	-7,892.9	-698.0	7,922.6	0.00	0.00	0.00
17,300.0	90.03	179.94	8,733.9	-7,942.9	-698.0	7,972.5	0.00	0.00	0.00
17,350.0	90.03	179.94	8,733.9	-7,992.9	-697.9	8,022.3	0.00	0.00	0.00
17,400.0	90.03	179.94	8,733.8	-8,042.9	-697.9	8,072.2	0.00	0.00	0.00
17,450.0	90.03	179.94	8,733.8	-8,092.9	-697.8	8,122.1	0.00	0.00	0.00
17,500.0	90.03	179.94	8,733.8	-8,142.9	-697.7	8,171.9	0.00	0.00	0.00
17,550.0	90.03	179.94	8,733.8	-8,192.9	-697.7	8,221.8	0.00	0.00	0.00
17,600.0	90.03	179.94	8,733.7	-8,242.9	-697.6	8,271.7	0.00	0.00	0.00
17,650.0	90.03	179.94	8,733.7	-8,292.9	-697.6	8,321.6	0.00	0.00	0.00
17,700.0	90.03	179.94	8,733.7	-8,342.9	-697.5	8,371.4	0.00	0.00	0.00
17,750.0	90.03	179.94	8,733.6	-8,392.9	-697.5	8,421.3	0.00	0.00	0.00
17,800.0	90.03	179.94	8,733.6	-8,442.9	-697.4	8,471.2	0.00	0.00	0.00
17,850.0	90.03	179.94	8,733.6	-8,492.9	-697.4	8,521.0	0.00	0.00	0.00
17,900.0	90.03	179.94	8,733.6	-8,542.9	-697.3	8,570.9	0.00	0.00	0.00
17,950.0	90.03	179.94	8,733.5	-8,592.9	-697.3	8,620.8	0.00	0.00	0.00
18,000.0	90.03	179.94	8,733.5	-8,642.9	-697.2	8,670.6	0.00	0.00	0.00
18,050.0	90.03	179.94	8,733.5	-8,692.9	-697.2	8,720.5	0.00	0.00	0.00
18,100.0	90.03	179.94	8,733.5	-8,742.9	-697.1	8,770.4	0.00	0.00	0.00
18,150.0	90.03	179.94	8,733.4	-8,792.9	-697.0	8,820.2	0.00	0.00	0.00
18,200.0	90.03	179.94	8,733.4	-8,842.9	-697.0	8,870.1	0.00	0.00	0.00

Planning Report

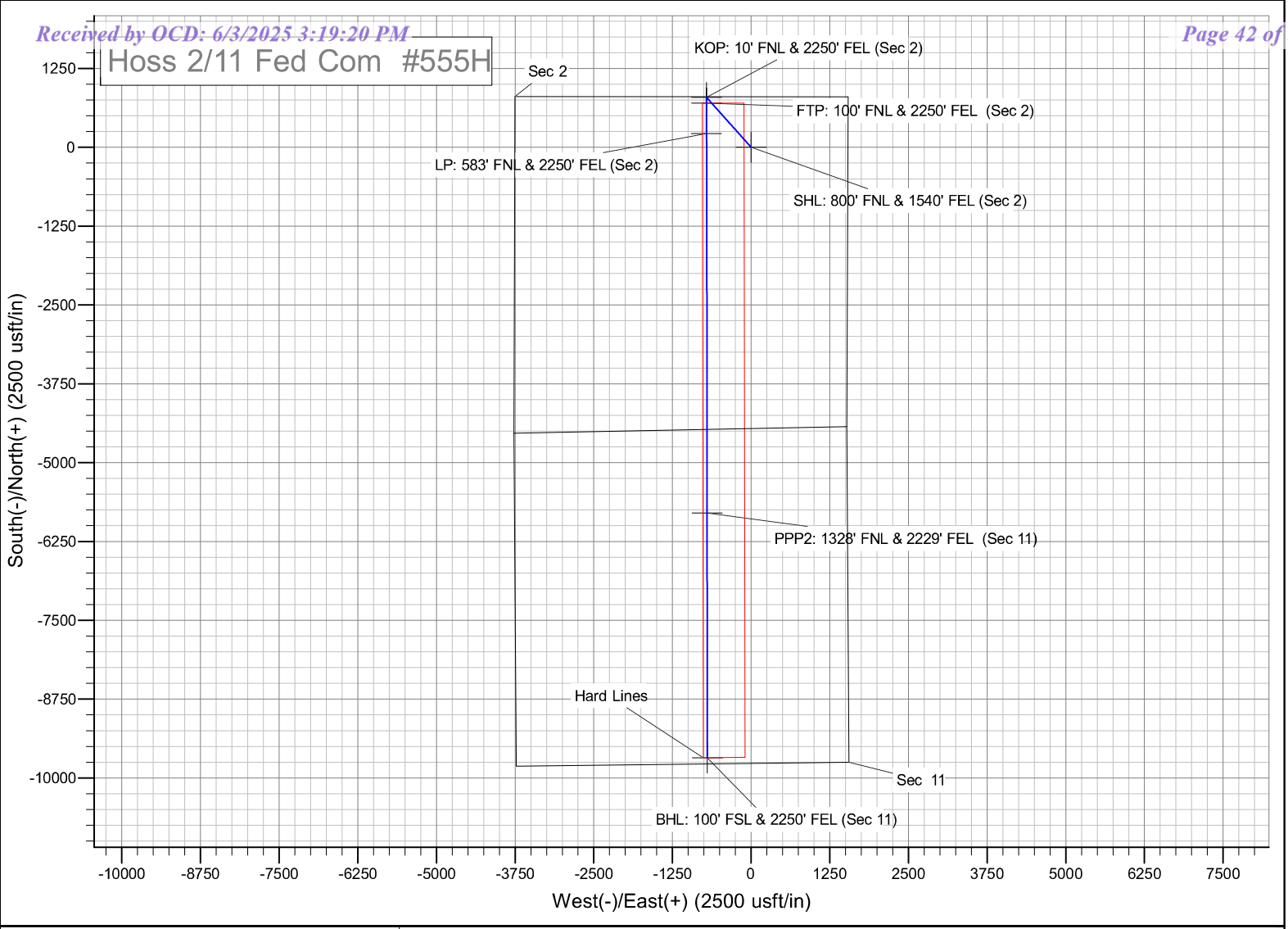
Database:	Hobbs	**Local Co-ordinate Reference:**	Site Hoss 2/11 Fed Com #555H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2981.0usft (Original Well Elev)
Site:	Hoss 2/11 Fed Com #555H	**North Reference:**	Grid
Well:	Sec 02, T25S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2250' FEL (Sec 11)		
Design:	Design #1		

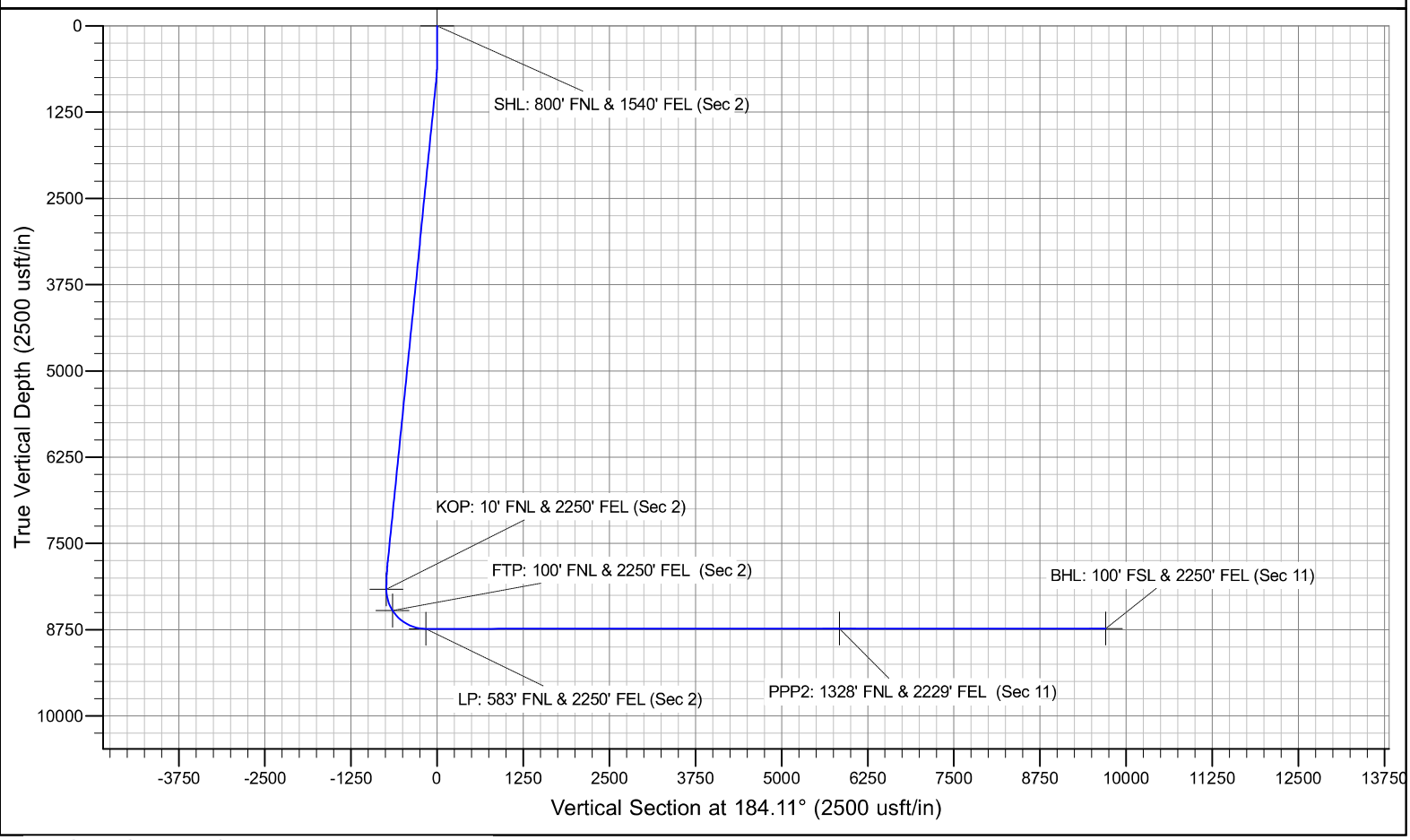
Planned Survey

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)
18,250.0	90.03	179.94	8,733.4	-8,892.9	-696.9	8,920.0	0.00	0.00	0.00
18,300.0	90.03	179.94	8,733.4	-8,942.9	-696.9	8,969.8	0.00	0.00	0.00
18,350.0	90.03	179.94	8,733.3	-8,992.9	-696.8	9,019.7	0.00	0.00	0.00
18,400.0	90.03	179.94	8,733.3	-9,042.9	-696.8	9,069.6	0.00	0.00	0.00
18,450.0	90.03	179.94	8,733.3	-9,092.9	-696.7	9,119.4	0.00	0.00	0.00
18,500.0	90.03	179.94	8,733.3	-9,142.9	-696.7	9,169.3	0.00	0.00	0.00
18,550.0	90.03	179.94	8,733.2	-9,192.9	-696.6	9,219.2	0.00	0.00	0.00
18,600.0	90.03	179.94	8,733.2	-9,242.9	-696.6	9,269.0	0.00	0.00	0.00
18,650.0	90.03	179.94	8,733.2	-9,292.9	-696.5	9,318.9	0.00	0.00	0.00
18,700.0	90.03	179.94	8,733.2	-9,342.9	-696.5	9,368.8	0.00	0.00	0.00
18,750.0	90.03	179.94	8,733.1	-9,392.9	-696.4	9,418.6	0.00	0.00	0.00
18,800.0	90.03	179.94	8,733.1	-9,442.9	-696.4	9,468.5	0.00	0.00	0.00
18,850.0	90.03	179.94	8,733.1	-9,492.9	-696.3	9,518.4	0.00	0.00	0.00
18,900.0	90.03	179.94	8,733.1	-9,542.9	-696.2	9,568.2	0.00	0.00	0.00
18,950.0	90.03	179.94	8,733.0	-9,592.9	-696.2	9,618.1	0.00	0.00	0.00
19,000.0	90.03	179.94	8,733.0	-9,642.9	-696.1	9,668.0	0.00	0.00	0.00
19,035.9	90.03	179.94	8,733.0	-9,678.8	-696.1	9,703.8	0.00	0.00	0.00
BHL: 100' FSL & 2250' FEL (Sec 11)									

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: 800' FNL & 1540' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	423,621.10	627,662.20	32.1643050	-104.0543577
KOP: 10' FNL & 2250' Fl - plan hits target center - Point	0.00	0.00	8,165.0	789.9	-707.3	424,411.00	626,954.90	32.1664814	-104.0566369
FTP: 100' FNL & 2250' F - plan hits target center - Point	0.00	0.00	8,473.1	700.0	-707.2	424,321.10	626,955.00	32.1662343	-104.0566373
BHL: 100' FSL & 2250' F - plan hits target center - Point	0.00	0.00	8,733.0	-9,678.8	-696.1	413,942.30	626,966.10	32.1377039	-104.0566876
PPP2: 1328' FNL & 222 - plan hits target center - Point	0.00	0.00	8,735.0	-5,800.7	-700.2	417,820.40	626,961.96	32.1483644	-104.0566688
LP: 583' FNL & 2250' FE - plan misses target center by 2.9usft at 9140.2usft MD (8738.0 TVD, 216.9 N, -706.7 E) - Point	0.00	0.00	8,738.0	216.9	-709.6	423,838.00	626,952.60	32.1649063	-104.0566491


Hoss 2/11 Fed Com #555H
Sec 2
KOP: 10' FNL & 2250' FEL (Sec 2)
FTP: 100' FNL & 2250' FEL (Sec 2)
LP: 583' FNL & 2250' FEL (Sec 2)
SHL: 800' FNL & 1540' FEL (Sec 2)
PPP2: 1328' FNL & 2229' FEL (Sec 11)
Hard Lines
Sec 11
BHL: 100' FSL & 2250' FEL (Sec 11)
South(-)/North(+) (2500 usft/in)
West(-)/East(+) (2500 usft/in)


SHL: 800' FNL & 1540' FEL (Sec 2)
KOP: 10' FNL & 2250' FEL (Sec 2)
FTP: 100' FNL & 2250' FEL (Sec 2)
BHL: 100' FSL & 2250' FEL (Sec 11)
LP: 583' FNL & 2250' FEL (Sec 2)
PPP2: 1328' FNL & 2229' FEL (Sec 11)
True Vertical Depth (2500 usft/in)
Vertical Section at 184.11° (2500 usft/in)

Mewbourne Oil Company, Hoss 2/11 Fed Com 555H
Sec 2, T25S, R28E
SHL: 360' FNL 700' FEL (Sec 2)
BHL: 100' FSL 2250' FEL (Sec 11)

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Hoss 2/11 Fed Com	555H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	2	25	28	-	10'	FNL	2250'	FEL	Eddy
Latitude					Longitude				NAD
32.1664815					-104.0566370				83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	2	25	28	-	100'	FNL	2250'	FEL	Eddy
Latitude					Longitude				NAD
32.1662341					-104.0566386				83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	11	25	28	-	100'	FSL	2250'	FEL	Eddy
Latitude					Longitude				NAD
32.1377039					-104.0566877				83

Is this well the defining well for the Horizontal Spacing Unit? Y
Is this well an infill well? N

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

API #

Operator Name:	Property Name:	Well Number

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
WELL NAME & NO.:	HOSS 2/11 FED COM 555H
APD ID:	10400099833
LOCATION:	Section 2, T.25 S., R.28 E. NMP.
COUNTY:	Eddy County, New Mexico

COA

H_2S	○ 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 (H_2S) Drilling Plan shall be activated **AT SPUD**. As a result, the Hydrogen Sulfide area must meet **43 CFR 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING DESIGN

Primary Casing Design

1. The **13-3/8** inch surface casing shall be set at approximately **450 ft.** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet 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**

 Approval Date: 05/19/2025

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 psi 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 **2,550 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. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst.**

Note: Excess cement is below the BLM's recommendation of 25%. More cement might be needed.

❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. Operator has proposed to set **7 in.** x **4-1/2 in** tapered production casing at approximately **19,035 ft.** (8,733 ft. TVD). Hole and casing size change at the KOP, approximately at 8,240 ft. The minimum required fill of cement behind the tapered production casing is:

Option 1 (Single Stage): Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification.

Option 2 (Two-stage): Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
b. **Second stage above DV tool:** Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification. If cement does not circulate, contact the appropriate BLM office.

Note: Cement volume for the 1st stage is insufficient. More cement is needed.

Alternate Casing Design

1. The **13-3/8** inch surface casing shall be set at approximately **450 ft.** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet 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 psi 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 **2,550 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. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst.**

Note: Excess cement is below the BLM's recommendation of 25%. More cement might be needed.

❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. Operator has proposed to set **7 in.** production casing at approximately **8,240 ft.** (8,165 ft. TVD). The minimum required fill of cement behind the **7 in.** production casing is:

Option 1 (Single Stage): Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Cave/Karst**.

Option 2 (Two-stage): Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
b. **Second stage above DV tool:** Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Cave/Karst**.

4. The minimum required fill of cement behind the **4-1/2 in.** production liner is:
    - Cement should tie-back **at least 100 feet** into previous casing string. Operator shall provide method of verification.

    Note: Cement volume is insufficient. More cement is needed.

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. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi. Before drilling the surface casing shoe out, the BOP/BOPE shall be pressure-tested in accordance with **title 43 CFR 3172.**

    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 the **title 43 CFR 3172.6(b)(9)** must be followed.

BOPE Break Testing Variance (Using a 10M BOP/BOPE)

- BOPE Break Testing is ONLY permitted for intervals requiring 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

- 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- 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 05/07/2025

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 know 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: HOSS 2/11 FED COM **Well Number:** 555H

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.

Reserve Pit

Reserve Pit being used? NO

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: HOSS 2/11 FED COM **Well Number:** 555H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

HOSS_2_11_FED_COM_555H_WellSiteLayout_20241210104855.pdf

Comments: NONE

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Hoss 2/11 Fed Com 406H 458H 555H 557H 858H
Multiple Well Pad Number: 5

Recontouring

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

Well pad proposed disturbance (acres): 4.6	**Well pad interim reclamation (acres):** 1.15	**Well pad long term disturbance (acres):** 3.45
Road proposed disturbance (acres):	**Road interim reclamation (acres):** 0	**Road long term disturbance (acres):** 0
Powerline proposed disturbance (acres): 0	**Powerline interim reclamation (acres):** 0	**Powerline long term disturbance (acres):** 0
Pipeline proposed disturbance (acres):	**Pipeline interim reclamation (acres):** 0	**Pipeline long term disturbance (acres):** 0
Other proposed disturbance (acres): 0	**Other interim reclamation (acres):** 0	**Other long term disturbance (acres):** 0
Total proposed disturbance: 4.6	**Total interim reclamation:** 1.15	**Total long term disturbance:** 3.45

Disturbance Comments: In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

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

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 470470
	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.	6/3/2025
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	6/3/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	7/17/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	7/17/2025
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.	7/17/2025
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.	7/17/2025