

Form 3160-3
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM14328
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator MEWBOURNE OIL COMPANY		8. Lease Name and Well No. LOX 18/14 B3PM FED COM
3a. Address P O BOX 5270, HOBBS, NM 88241		9. API Well No. 30-025-55041
3b. Phone No. (include area code) (575) 393-5905		10. Field and Pool, or Exploratory Bilbrey Basin/Bone Spring
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWSW / 1390 FSL / 1440 FWL / LAT 32.4752397 / LONG -103.7007702 At proposed prod. zone SWSW / 990 FSL / 100 FWL / LAT 32.4740743 / LONG -103.7568073		11. Sec., T. R. M. or Blk. and Survey or Area SEC 17/T21S/R32E/NMP
14. Distance in miles and direction from nearest town or post office* 20 miles		12. County or Parish LEA
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet		13. State NM
16. No of acres in lease		17. Spacing Unit dedicated to this well 480.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 50 feet		20. BLM/BIA Bond No. in file FED: NM 1693
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3636 feet		22. Approximate date work will start* 04/21/2022
		23. Estimated duration 60 days
24. Attachments		

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) BRADLEY BISHOP / Ph: (575) 393-5905	Date 05/16/2022
Title Regulatory		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) DAWN M JONES / Ph: (575) 234-5901	Date 06/15/2025
Title Field Manager		

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

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



(Continued on page 2)

*(Instructions on page 2)

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

WELL LOCATION INFORMATION

API Number 30-025-55041	Pool Code 5695 97961	Pool Name WC-025 G-06 S213217K;BONE SPRING BILBREY BASIN; BONE SPRING
Property Code 337713	Property Name LOX 18/14 B3PM FED COM	Well Number 1H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3636'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL K	Section 17	Township 21S	Range 32E	Lot	Ft. from N/S 1390 FSL	Ft. from E/W 1440 FWL	Latitude 32.4752397°N	Longitude 103.7007702°W	County LEA
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Bottom Hole Location

UL M	Section 14	Township 21S	Range 31E	Lot	Ft. from N/S 990 FSL	Ft. from E/W 100 FWL	Latitude 32.4740743°N	Longitude 103.7568073°W	County EDDY
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Dedicated Acres 480 483.18	Infill or Defining Well DEFINING	Defining Well API	Overlapping Spacing Unit (Y/N) Y	Consolidation Code C
Order Numbers. N/A			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL M	Section 17	Township 21S	Range 32E	Lot	Ft. from N/S 990 FSL	Ft. from E/W 473 FWL	Latitude 32.4741290°N	Longitude 103.7039045°W	County LEA
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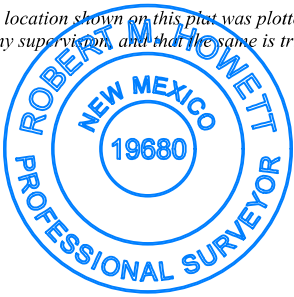
First Take Point (FTP)

UL P	Section 18	Township 21S	Range 32E	Lot	Ft. from N/S 990 FSL	Ft. from E/W 100 FEL	Latitude 32.4741224°N	Longitude 103.7057620°W	County LEA
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Last Take Point (LTP)

UL M	Section 14	Township 21S	Range 31E	Lot	Ft. from N/S 990 FSL	Ft. from E/W 100 FWL	Latitude 32.4740743°N	Longitude 103.7568073°W	County EDDY
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Unitized Area or Area of Uniform Interest N/A	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3636'
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> Brett Miller 04/11/2025 Signature Date		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief.</i>  Signature and Seal of Professional Surveyor Robert M. Howett	
Printed Name brett.miller@mewbourne.com Email Address		Certificate Number 19680	
		Date of Survey 01/26/2022	

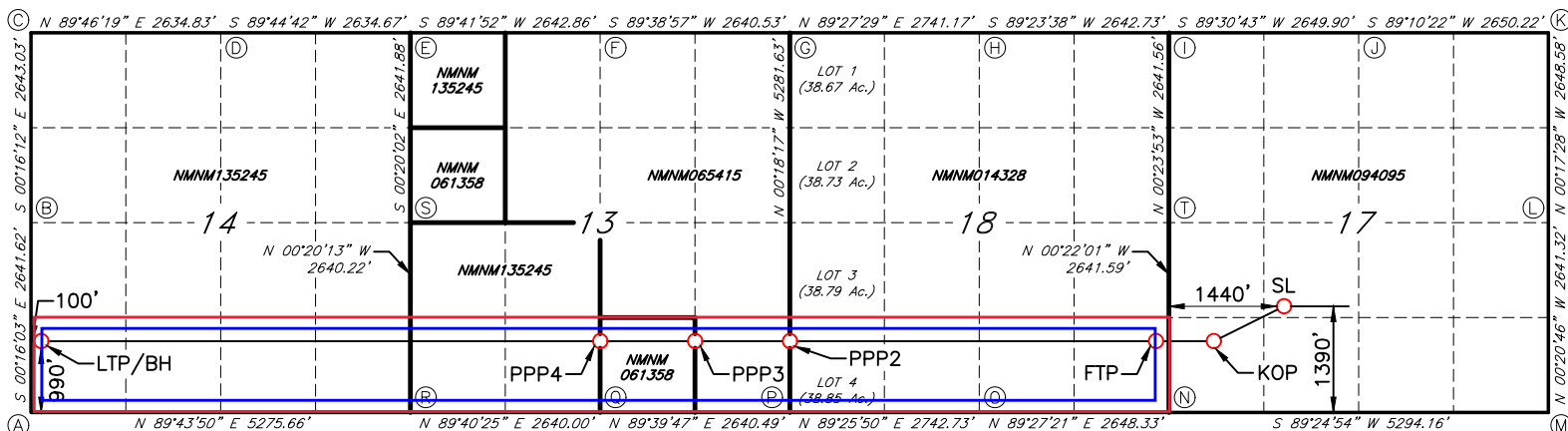
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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.

LOX 18/14 B3PM FED COM #1H



GEODETIC DATA
NAD 83 GRID — NM EAST

SURFACE LOCATION (SL)
1390' FSL — 1440' FWL SEC.17
N: 537201.3 — E: 736408.1

LAT: 32.4752397° N
LONG: 103.7007702° W

KICK OFF POINT (KOP)
990' FSL — 473' FWL SEC.17
N: 536791.5 — E: 735443.9

LAT: 32.4741290° N
LONG: 103.7039045° W

FIRST TAKE POINT (FTP)
990' FSL — 100' FWL SEC.18
N: 536785.7 — E: 734871.0

LAT: 32.4741224° N
LONG: 103.7057620° W

PROPOSED PENETRATION POINT 2 (PPP2)
1006' FSL — 0' FWL SEC.18
N: 536750.0 — E: 729582.4

LAT: 32.4741085° N
LONG: 103.7229114° W

PROPOSED PENETRATION POINT 3 (PPP3)
1005' FSL — 1320' FWL SEC.13
N: 536741.1 — E: 728262.4

LAT: 32.4741047° N
LONG: 103.7271917° W

PROPOSED PENETRATION POINT 4 (PPP4)
1003' FSL — 2641' FWL SEC.13
N: 536732.1 — E: 726942.4

LAT: 32.4741008° N
LONG: 103.7314718° W

LAST TAKE POINT/BOTTOM HOLE (LTP/BH)
990' FSL — 100' FWL SEC.14
N: 536679.4 — E: 719129.3

LAT: 32.4740743° N
LONG: 103.7568073° W

CORNER DATA
NAD 83 GRID — NM EAST

A: FOUND BRASS CAP "1916"
N: 535689.1 — E: 719033.9

B: FOUND BRASS CAP "1916"
N: 538330.2 — E: 719021.6

C: FOUND BRASS CAP "1916"
N: 540972.6 — E: 719009.2

D: FOUND BRASS CAP "1916"
N: 540983.1 — E: 721643.4

E: FOUND BRASS CAP "1916"
N: 540994.8 — E: 724277.5

F: FOUND BRASS CAP "1916"
N: 541008.7 — E: 726919.7

G: CALCULATED CORNER
N: 541024.9 — E: 729559.6

H: FOUND BRASS CAP "1916"
N: 541050.8 — E: 732300.1

I: CALCULATED CORNER
N: 541078.8 — E: 734942.1

J: FOUND BRASS CAP "1916"
N: 541101.3 — E: 737591.3

K: FOUND BRASS CAP "1916"
N: 541139.6 — E: 740240.7

L: FOUND BRASS CAP "1916"
N: 538491.6 — E: 740254.1

M: FOUND BRASS CAP "1916"
N: 535850.9 — E: 740270.1

N: FOUND BRASS CAP "1916"
N: 535796.9 — E: 734977.4

O: FOUND PIPE
N: 535771.7 — E: 732329.7

P: FOUND BRASS CAP "1916"
N: 535744.5 — E: 729587.7

Q: FOUND BRASS CAP "1916"
N: 535729.0 — E: 726947.8

R: FOUND BRASS CAP "1916"
N: 535713.9 — E: 724308.4

S: FOUND BRASS CAP "1916"
N: 538353.5 — E: 724292.9

T: FOUND BRASS CAP "1916"
N: 538437.8 — E: 734960.4

JOB #: LS22010028D1

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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:** 04/15/25

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
LOX 18/14 B3PM FED COM 1H		L 17 21S 32E	1390' FSL x 1440' FWL	1500	3500	3500
				Y1-400 Y2-300 Y3-200	Y1-900 Y2-700 Y3-500	Y1-900 Y2-700 Y3-500

IV. Central Delivery Point Name: LOX 18/14 MASTER METER [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
LOX 18/14 B3PM FED COM 1H		8/1/25	8/30/25	9/30/25	10/15/25	10/23/25

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:	<i>Bradley Bishop</i>
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	10/30/24
Phone:	575-393-5905
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

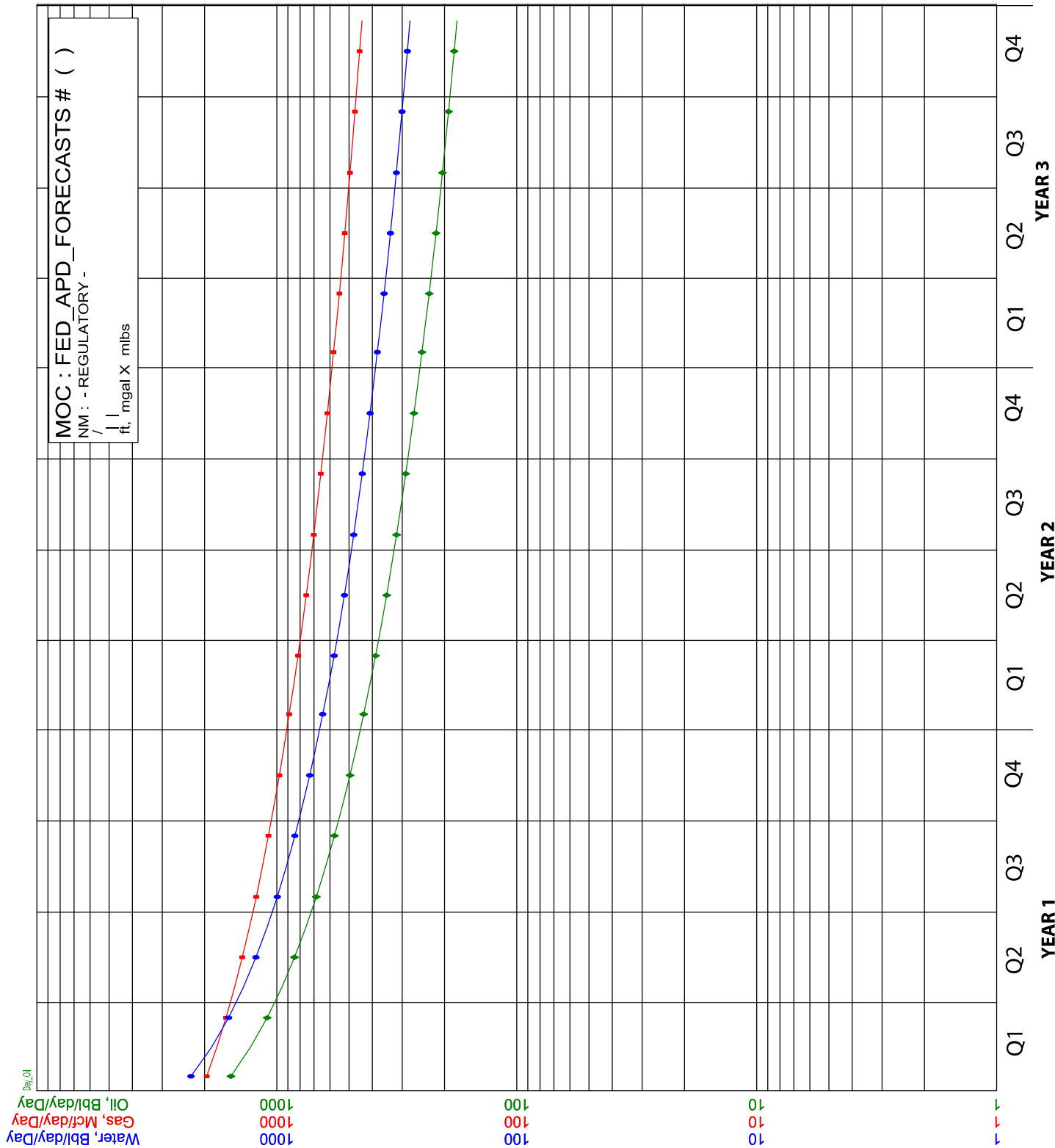
Mewbourne Oil Company

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 pressure venting and flaring, MOC will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

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





Drilling Plan Data Report

06/16/2025

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

APD ID: 10400084727

Submission Date: 05/16/2022

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: LOX 18/14 B3PM FED COM

Well Number: 1H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15833070	UNKNOWN	3635	28	28	OTHER : Topsoil	NONE	N
15833084	RUSTLER	2612	1023	1023	ANHYDRITE, DOLOMITE	USEABLE WATER	N
15833071	TOP SALT	2183	1452	1452	SALT	NONE	N
15833073	BASE OF SALT	-157	3792	3792	SALT	NONE	N
15833074	LAMAR	-584	4219	4219	LIMESTONE	NATURAL GAS, OIL	N
15833075	BELL CANYON	-871	4506	4506	SANDSTONE	NATURAL GAS, OIL	N
15833076	CHERRY CANYON	-1812	5447	5447	SANDSTONE	NATURAL GAS, OIL	N
15833077	MANZANITA	-2070	5705	5705	LIMESTONE	NATURAL GAS, OIL	N
15833078	BRUSHY CANYON	-3281	6916	6916	SANDSTONE	NATURAL GAS, OIL	N
15833079	BONE SPRING	-4813	8448	8448	LIMESTONE, SHALE	NATURAL GAS, OIL	N
15833080	BONE SPRING 1ST	-5834	9469	9469	SANDSTONE	NATURAL GAS, OIL	N
15833081	BONE SPRING 2ND	-6519	10154	10154	SANDSTONE	NATURAL GAS, OIL	N
15833085	BONE SPRING 3RD	-7628	11263	11263	SANDSTONE	NATURAL GAS, OIL	Y
15833069	WOLFCAMP	-7996	11631	11631	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** LOX 18/14 B3PM FED COM**Well Number:** 1H**Pressure Rating (PSI):** 5M**Rating Depth:** 27613**Equipment:** Annular, Pipe Ram x2, Blind Ram**Requesting Variance?** YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to choke manifold. A multi-bowl wellhead is being used. See attached schematic.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Choke Diagram Attachment:

Lox_18_14_B3PM_Fed_Com_1H_5M_BOPE_Choke_Diagram_20221020140516.pdf

Flex_Line_Specs_API_16C_20250414134208.pdf

Cactus_5K_WH_20250414134208.pdf

BOP Diagram Attachment:

Lox_18_14_B3PM_Fed_Com_1H_5M_BOPE_Schematic_20221024101346.pdf

Lox_18_14_B3PM_Fed_Com_1H_5M_Mutli_Bowl_WH_20221024101533.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	1100	0	1100	3636	2536	1100	H-40	48	ST&C	1.57	3.52	DRY	6.1	DRY	10.25
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3385	0	3385	3639	251	3385	J-55	36	LT&C	1.13	1.96	DRY	2.98	DRY	3.7
3	INTERMEDIATE	12.25	9.625	NEW	API	N	3385	4145	3385	4145	251	-509	760	J-55	40	LT&C	1.17	1.8	DRY	17.11	DRY	20.72
4	PRODUCTION	8.75	7.625	NEW	API	N	0	10970	0	10905	-8529	-7269	10970	HCP-110	29.7	OTHER - GBCD	1.51	1.72	DRY	2.36	DRY	2.89
5	LINER	6.75	5.5	NEW	API	N	10770	27613	10748	11303	-7112	-7667	16843	P-110	20	OTHER - Talon	1.55	1.76	BUOY	1.63	BUOY	1.9

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** LOX 18/14 B3PM FED COM**Well Number:** 1H**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_20250414134425.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_20250414134343.pdf

Casing ID: 3 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**9.625in_40_J55_LTC_Csg_20250414134913.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: LOX 18/14 B3PM FED COM

Well Number: 1H

Casing Attachments

Casing ID: 4 String PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7.625in_29.7_HCP110_GBCD_Slim_Csg_20250414134536.pdf

Casing ID: 5 String LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5.5in_20_HPP110_Talon_Csg_20250414134749.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
SURFACE	Lead		0	910	600	2.12	12.5	1280	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		910	1100	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	3463	640	2.12	12.5	1360	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		3463	4145	200	1.34	14.8	268	25	Class	Retarder
PRODUCTION	Lead		5145	6403	60	2.12	12.5	130	0	Class C	Gel, Retarder, Defoamer, Extender

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** LOX 18/14 B3PM FED COM**Well Number:** 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		6403	10970	400	1.18	15.6	472	0	Class H	Retarder
LINER	Lead		10770	27613	950	1.85	13.5	1760	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

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:** Lost Circulation Material, Sweeps, Mud Scavengers in Surface Hole**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	1100	SPUD MUD	8.4	8.6							
1100	4145	SALT SATURATED	10	10.2							
4145	11870	WATER-BASED MUD	8.6	9.7							
11870	27613	OIL-BASED MUD	10	12							

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** LOX 18/14 B3PM FED COM**Well Number:** 1H

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP to surface in deeper offset well: Lox 18/14 W2PM Fed Com#1H.

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

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

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7162**Anticipated Surface Pressure:** 4636**Anticipated Bottom Hole Temperature(F):** 140**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

H2S_Plan_20250414135414.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

LOX_18_14_B3PM_FED_COM__1H_Dir_Plot_20250414135435.pdf

LOX_18_14_B3PM_FED_COM__1H_Dir_Plan_20250414135436.pdf

Other proposed operations facets description:**Other proposed operations facets attachment:**

Lox_18_14_B3PM_Fed_Com_1H_CsgAssumptions_20250414135447.pdf

Lox_18_14_B3PM_Fed_Com_1H_Drlg_Program_20250414135447.pdf

Lox_18_14_B3PM_Fed_Com_1H_R_111Q_Csg___Cmt_Assumptions_20250414135447.pdf

LOX_18_14_B3PM_FED_COM_1H_NGMP_20250415085006.pdf

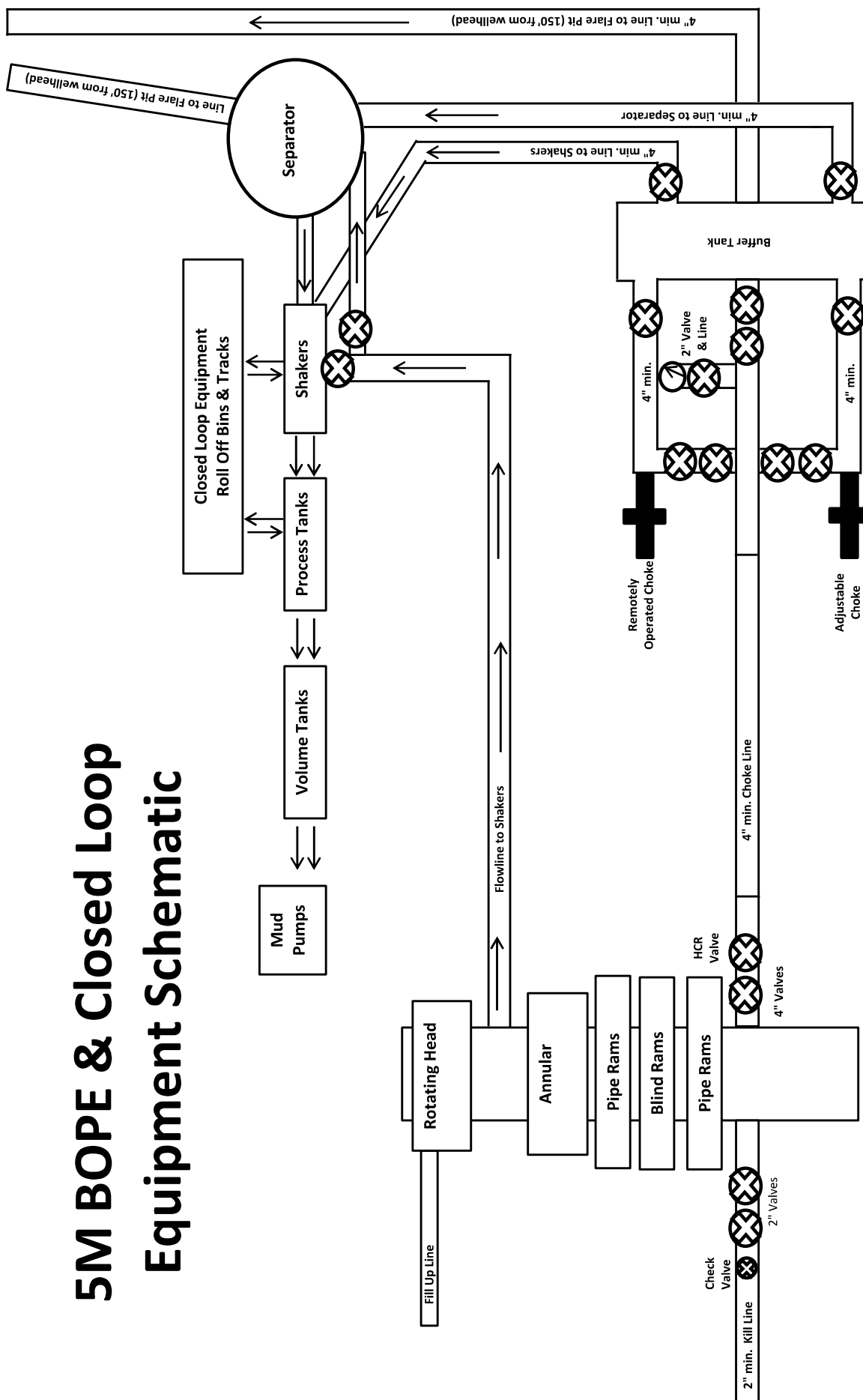
Other Variance request(s)?: Y**Other Variance attachment:**

MOC_Break_Testing_Variance_20250414135459.pdf

MOC_Offline_Cementing_Variance_20250414135500.pdf

CONFIDENTIAL

5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTTY/QR-5.7.1-28

No: 230826015

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



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTTY/QR-5.7.1-19B

No: LT2023-126-002

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

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



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF CONFORMANCE

№:LT230826016

Product Name: Choke And Kill Hose

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

Serial Number: 7660143~7660144

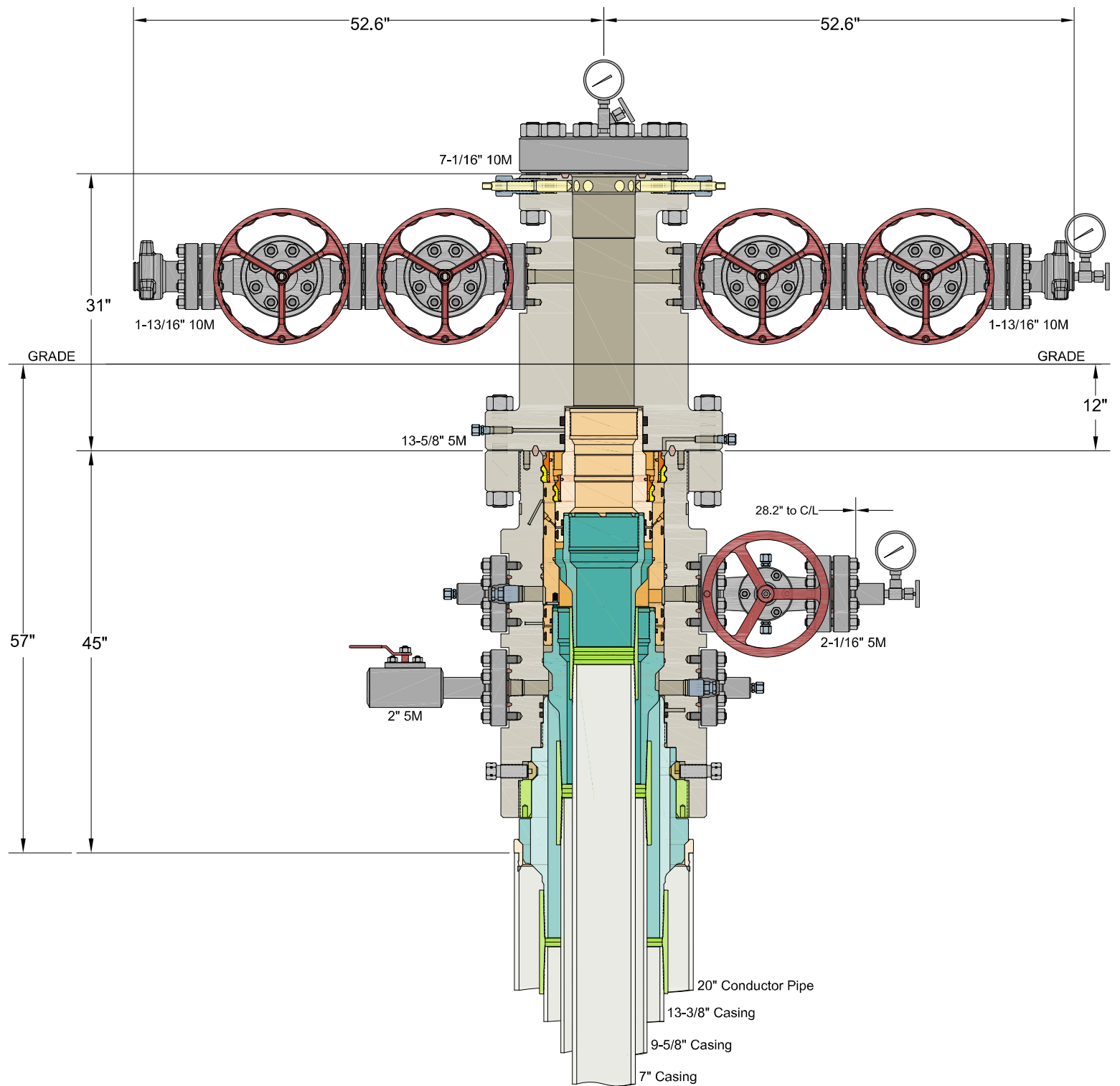
End Connections: 4-1/16"×10000psi Integral flange for sour gas service

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



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ALL DIMENSIONS APPROXIMATE

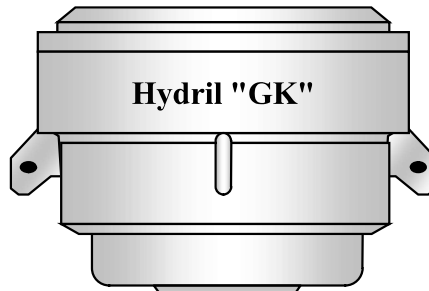
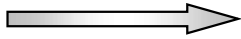
CACTUS WELLHEAD LLC

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

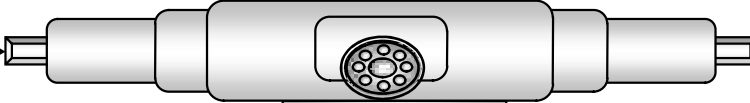
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APPRV		
DRAWING NO.	HBE0000660	

Hydril "GK"
13 5/8" 5M

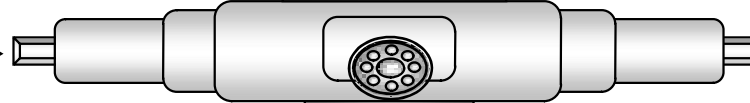


Hydril "GK"

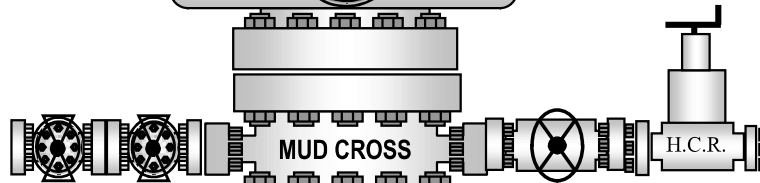
Cameron Type U
13 5/8" 5M



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

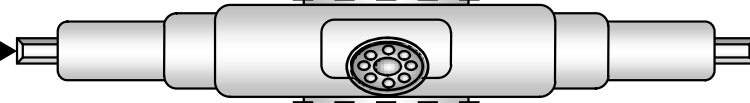


BLIND RAMS



MUD CROSS

H.C.R.



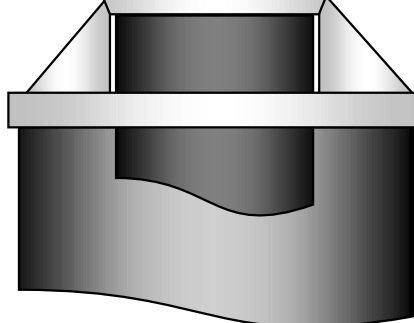
7" RAMS



13 5/8" 5M

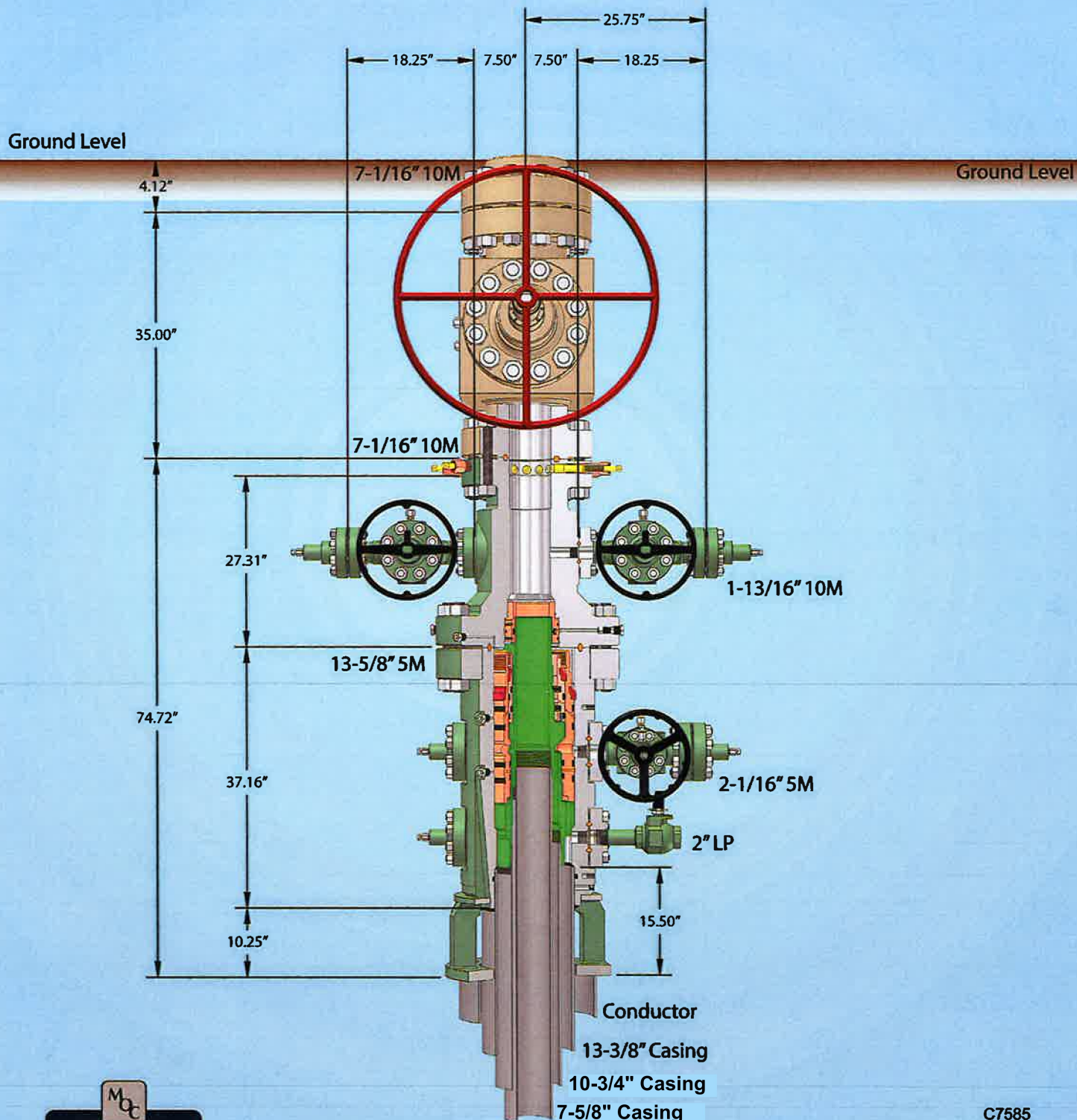
13 5/8" 5M

13 5/8" 5M





13-5/8" MN-DS Wellhead System



C7585
Rev. 02

NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

Cuffing Hanger 57" conductor cut-off



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	0.395 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	8.679 in.
Wall Thickness	0.395 in.	Plain End Weight	38.97 lb/ft
Nominal Weight	40 lb/ft	OD Tolerance	API
Nominal ID	8.835 in.		
		SMYS	55,000 psi
		Min UTS	75,000 psi
		Body Yield Strength	630 x1000 lb
		Min. Internal Yield Pressure	3950 psi
		Collapse Pressure	2570 psi
		Max. Allowed Bending	26 °/100 ft

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	520 x1000 lb	Minimum Torque	3900 ft-lb
Connection OD	10.625 in.	Coupling Face Load	433 x1000 lb	Optimum Torque	5200 ft-lb
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	3950 psi	Maximum Torque	6500 ft-lb

Notes

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

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

8/10/2024 7:28:17 PM



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

UNCONTROLLED

Notes

1.

Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2.

Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
3.

Uniaxial bend rating shown is structural only.
4.

Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
5.

Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
6.

Coupling must meet minimum mechanical properties of the pipe.

Legal Notice

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

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

Casing Program

Hole Size	From	To	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF Jt	SF Body
				(lbs)			Collapse		Tension	Tension
17.5 in	0'	1100'	13.375 in	48.0	H40	STC	1.53	3.44	6.10	10.25
12.25 in	0'	2701'	10.750 in	40.5	J55	BTC	1.13	2.23	3.99	3.59
12.25 in	2701'	3573'	10.75 in	45.5	J55	BTC	1.13	1.93	12.07	10.84
12.250 in	3573'	4150'	10.75 in	45.5	N80	BTC	1.14	2.41	41.76	39.59
9.875 in	0'	10884'	7.625 in	29.7	HCP110	LTC	1.31	1.73	2.38	2.91
6.750 in	10684'	27592'	5.500 in	20.0	P110	BTC	1.43	1.63	1.97	1.90
BLM Minimum Safety Factor							1.125	1.1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Cement Program

Casing		# Sacks	Wt. lb/gal	Yield cu.ft/sack	TOC	Slurry Description
13.375 in	LEAD	600	12.5	2.12	0	Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34		Retarder
10.75 in	LEAD	350	12.5	2.12	0	Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34		Retarder
1st Stg 7.625 in	LEAD	80	12.5	2.12	6984	Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18		Retarder, Fluid Loss, Defoamer
7" DV Tool @ 5675'						
2nd Stg 7.625 in	LEAD	50	12.5	2.12	5112	Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34		Retarder, Fluid Loss, Defoamer
5.5 in	LEAD	960	13.5	1.85	10684	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Mud Program

Depth	Mud Wt	Mud Type
0' - 1100'	8.8	Fresh Water
1100' - 4150'	10	Brine
4150' - 10884'	9.7	Cut-Brine
10884' - 27592'	13	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	1023'	Usable Water	Delaware (Lamar)	4219'	Oil/Natural Gas
Salt Top	1452'	None	Bell Canyon	4506'	Oil/Natural Gas
Salt Base	3792'	None	Cherry Canyon	5447'	Oil/Natural Gas
Yates			Manzanita Marker	5705'	Oil/Natural Gas
Seven Rivers			Basal Brushy Canyon	6916'	Oil/Natural Gas
Queen			Bone Spring	8448'	Oil/Natural Gas
Capitan			1st Bone Spring	9469'	Oil/Natural Gas
Grayburg			2nd Bone Spring	10154'	Oil/Natural Gas
San Andres			B3 Carbonate	10600'	Oil/Natural Gas
Glorieta			3rd Bone Spring	11263'	Oil/Natural Gas
Yeso			Wolfcamp	11631'	Oil/Natural Gas

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 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-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500’ into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100’ to 600’ below the base of salt?	Y
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	Y
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?	



API LTC

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

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

Pipe Body Data

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

Connection Data

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

Notes

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

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

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

Pipe Body Data

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

Connection Data

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

Notes

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

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

Performance Properties

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

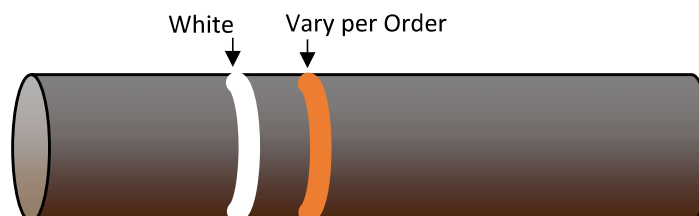
Connection Performance per GB

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

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

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

Color Code



Mewbourne Oil Company, Lox 18/14 B3PM Fed Com 1H

Sec 17, T21S, R32E

SHL: 1390' FSL 1440' FWL (Sec 17)

BHL: 990' FSL 100' FWL (Sec 14)

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'	1100'	1100'	13.375" 48# H40 STC	1.57	3.52	6.10	10.25
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96	2.98	3.70
Intermediate	12.25"	3385'	3385'	4145'	4145'	9.625" 40# J55 LTC	1.17	1.80	17.11	20.72
Production	8.75"	0'	0'	10970'	10905'	7 5/8" 29.7# HCP110 GBCD	1.51	1.72	2.36	2.89
Liner	6.75"	10770'	10748'	27613'	11303'	5.5" 20# HPP110 Talon	1.55	1.76	1.63	1.90

Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
13.375 in	LEAD	600	12.5	2.12	0' - 910'	1280	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	910' - 1100'	268		Class C: Retarder
9.625 in	LEAD	640	12.5	2.12	0' - 3463'	1360	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3463' - 4145'	268		Class C: Retarder
7.625 in	LEAD	60	12.5	2.12	5145' - 6403'	130	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6403' - 10970'	472		Class H: Retarder, Fluid Loss, Defoamer
5.5 in	LEAD	950	13.5	1.85	10770' - 27613'	1760	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer,

Design A - Mud Program

Depth	Mud Wt	Mud Type
0' - 1100'	8.4 - 8.6	Fresh Water
1100' - 4145'	10.0 - 10.2	Brine
4145' - 10970'	8.6 - 9.7	Cut-Brine
10970' - 27613'	10.0 - 12.	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	1023'	Usable Water	Delaware (Lamar)	4219'	Oil/Natural Gas
Castile			Bell Canyon	4506'	Oil/Natural Gas
Salt Top	1452'	None	Cherry Canyon	5447'	Oil/Natural Gas
Marker Bed 126	2347'	None	Manzanita Marker	5705'	Oil/Natural Gas
Salt Base	3792'	None	Basal Brushy Canyon	6916'	Oil/Natural Gas
Yates			Bone Spring	8448'	Oil/Natural Gas
Seven Rivers			1st Bone Spring Carbonate		
Queen			1st Bone Spring Sand	9469'	Oil/Natural Gas
Capitan			2nd Bone Spring Carbonate		
Grayburg			2nd Bone Spring Sand	10154'	Oil/Natural Gas
San Andres			3rd Bone Spring Carbonate		
Glorietta			3rd Bone Spring Sand	11263'	Oil/Natural Gas
Yeso			Wolfcamp	11263'	Oil/Natural Gas

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172. Must have table for contingency casing.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	Y
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, Lox 18/14 B3PM Fed Com 1H
Sec 17, T21S, R32E
SHL: 1390' FSL 1440' FWL (Sec 17)
BHL: 990' FSL 100' FWL (Sec 14)

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Drv 1.8 Wet	1.6 Drv 1.8 Wet
Surface	17.5"	0'	0'	1100'	1100'	13.375" 48# H40 STC	1.57	3.52	6.10	10.25
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96	2.98	3.70
Intermediate	12.25"	3385'	3385'	4145'	4145'	9.625" 40# J55 LTC	1.17	1.80	17.11	20.72
Production	8.75"	0'	0'	11870'	11478'	7 5/8" 29.7# HCP110 GBCD	1.23	1.64	2.18	2.67
Liner	6.75"	10970'	10905'	27613'	11303'	5.5" 20# HPP110 Talon	1.55	1.76	1.65	1.93

Design B - Cement Program

13.375 in	LEAD	600	12.5	2.12	0' - 910'	1280	100%	Class C: Salt, Gel, Extender, LCM	
	TAIL	200	14.8	1.34	910' - 1100'	268		Class C: Retarder	
9.625 in	LEAD	640	12.5	2.12	0' - 3463'	1360	25%	Class C: Salt, Gel, Extender, LCM	
	TAIL	200	14.8	1.34	3463' - 4145'	268		Class C: Retarder	
7.625 in	LEAD	100	12.5	2.12	5145' - 7283'	220	0%	Class C: Salt, Gel, Extender, LCM, Defoamer	
	TAIL	400	15.6	1.18	7283' - 11870'	472		Class H: Retarder, Fluid Loss, Defoamer	
5.5 in	LEAD	940	13.5	1.85	10970' - 27613'	1740	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer,	

Design B - Mud Program

Depth	Mud Wt	Mud Type
0' - 1100'	8.4 - 8.6	Fresh Water
1100' - 4145'	10.0 - 10.2	Brine
4145' - 11870'	8.6 - 9.7	Cut-Brine
11870' - 27613'	10.0 - 12.	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	1023'	Usable Water	Delaware (Lamar)	4219'	Oil/Natural Gas
Castile			Bell Canyon	4506'	Oil/Natural Gas
Salt Top	1452'	None	Cherry Canyon	5447'	Oil/Natural Gas
Marker Bed 126	2347'	None	Manzanita Marker	5705'	Oil/Natural Gas
Salt Base	3792'	None	Basal Brushy Canyon	6916'	Oil/Natural Gas
Yates			Bone Spring	8448'	Oil/Natural Gas
Seven Rivers			1st Bone Spring Carbonate		
Queen			1st Bone Spring Sand	9469'	Oil/Natural Gas
Capitan			2nd Bone Spring Carbonate		
Grayburg			2nd Bone Spring Sand	10154'	Oil/Natural Gas
San Andres			3rd Bone Spring Carbonate		
Glorietta			3rd Bone Spring Sand	11263'	Oil/Natural Gas
Yeso			Wolfcamp	11631'	Oil/Natural Gas

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172. Must have table for contingency casing.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	Y
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, Lox 18/14 B3PM Fed Com 1H
Sec 17, T21S, R32E
SHL: 1390' FSL 1440' FWL (Sec 17)
BHL: 990' FSL 100' FWL (Sec 14)

Well Location GL: 3636'

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 1390' FSL & 1440' FWL (Sec 17)	NMNM094095	NESW	17	21S	32E	Lea	32.4752397	- 103.7007702	0'	0'
KOP	KOP: 990' FSL & 473' FWL (Sec 17)	NMNM094095	SWSW	17	21S	32E	Lea	32.4741290	- 103.7039045	10,905'	10,970'
FTP	FTP/LP: 990' FSL & 100' FEL (Sec 18)	NMNM014328	SESE	18	21S	32E	Lea	32.4741224	- 103.7057620	11,478'	11,870'
PPP2	PPP2: 1006' FSL & 0' FWL (Sec 18)	NMNM065415	SESE	18	21S	32E	Lea	32.4741085	- 103.7229114	11,419'	17,159'
PPP3	PPP3: 1005' FSL & 1320' FEL (Sec 13)	NMNM061358	SWSE	13	21S	31E	Eddy	32.4741047	- 103.7271917	11,404'	18,479'
PPP4	PPP4: 1003' FSL & 2641' FWL (Sec 13)	NMNM135245	SESW	13	21S	31E	Eddy	32.4741008	- 103.7314718	11,389'	19,800'
BHL	BHL: 990' FSL & 100' FWL (Sec 14)	NMNM135245	SWSW	14	21S	31E	Eddy	32.4740743	- 103.7568073	11,303'	27,613'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler	1023'	Dolomite/Anhydrite	Usable Water	Delaware (Lamar)	4219'	Limestone	Oil/Natural Gas
Castile				Bell Canyon	4506'	Sandstone	Oil/Natural Gas
Salt Top	1452'	Salt	None	Cherry Canyon	5447'	Sandstone	Oil/Natural Gas
Marker Bed 126	2347'	Salt	None	Manzanita Marker	5705'	Limestone	Oil/Natural Gas
Salt Base	3792'	Salt	None	Basal Brushy Canyon	6916'	Sandstone	Oil/Natural Gas
Yates				Bone Spring	8448'	Limestone/Shale	Oil/Natural Gas
Seven Rivers				1st Bone Spring Carbonate			
Queen				1st Bone Spring Sand	9469'	Sandstone	Oil/Natural Gas
Capitan				2nd Bone Spring Carbonate			
Grayburg				2nd Bone Spring Sand	10154'	Sandstone	Oil/Natural Gas
San Andres				3rd Bone Spring Carbonate			
Glorietta				3rd Bone Spring Sand	11263'	Sandstone	Oil/Natural Gas
Yeso				Wolfcamp	11631'	Shale/Sandstone/Limestone	Oil/Natural Gas

Casing Program Design A						BLM Minimum Safety Factors		1.125	1.0	1.6 Dry	1.6 Dry
										1.8 Wet	1.8 Wet
Surface	17.5"	0'	0'	1100'	1100'	13.375" 48# H40 STC	1.57	3.52		6.10	10.25
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96		2.98	3.70
Intermediate	12.25"	3385'	3385'	4145'	4145'	9.625" 40# J55 LTC	1.17	1.80		17.11	20.72
Production	8.75"	0'	0'	10970'	10905'	7 5/8" 29.7# HCP110 GBCD	1.51	1.72		2.36	2.89
Liner	6.75"	10770'	10748'	27613'	11303'	5.5" 20# HPP110 Talon	1.55	1.76		1.63	1.90

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 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	Y
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, Lox 18/14 B3PM Fed Com 1H
Sec 17, T21S, R32E
SHL: 1390' FSL 1440' FWL (Sec 17)
BHL: 990' FSL 100' FWL (Sec 14)

Design A - Cement Program

13.375 in	LEAD	600	12.5	2.12	0' - 910'	1280	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	910' - 1100'	268		Class C: Retarder
9.625 in	LEAD	640	12.5	2.12	0' - 3463'	1360	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3463' - 4145'	268		Class C: Retarder
7.625 in	LEAD	60	12.5	2.12	5145' - 6403'	130	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6403' - 10970'	472		Class H: Retarder, Fluid Loss, Defoamer
5.5 in	LEAD	950	13.5	1.85	10770' - 27613'	1760	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

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#	27,613'
		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' - 1100'	8.4 - 8.6	Fresh Water
1100' - 4145'	10.0 - 10.2	Brine
4145' - 11870'	8.6 - 9.7	Cut-Brine
11870' - 27613'	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, Lox 18/14 B3PM Fed Com 1H
Sec 17, T21S, R32E
SHL: 1390' FSL 1440' FWL (Sec 17)
BHL: 990' FSL 100' FWL (Sec 14)

Logging and Testing Procedures

Logging, Coring and Testing.	
N	Will run GR/CNL from KOP (10970') 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: Lox 18/14 W2PM Fed Com #1H
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	7162 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, Lox 18/14 B3PM Fed Com 1H
Sec 17, T21S, R32E
SHL: 1390' FSL 1440' FWL (Sec 17)
BHL: 990' FSL 100' FWL (Sec 14)

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
Surface	17.5"	0'	0'	1100'	1100'	13.375" 48# H40 STC	1.57	3.52	6.10	10.25
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96	2.98	3.70
Intermediate	12.25"	3385'	3385'	4145'	4145'	9.625" 40# J55 LTC	1.17	1.80	17.11	20.72
Production	8.75"	0'	0'	11870'	11478'	7 5/8" 29.7# HCP110 GBCD	1.23	1.64	2.18	2.67
Liner	6.75"	10970'	10905'	27613'	11303'	5.5" 20# HPP110 Talon	1.55	1.76	1.65	1.93

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	Y
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

13.375 in	LEAD	600	12.5	2.12	0' - 910'	1280	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	910' - 1100'	268		Class C: Retarder
9.625 in	LEAD	640	12.5	2.12	0' - 3463'	1360	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3463' - 4145'	268		Class C: Retarder
7.625 in	LEAD	100	12.5	2.12	5145' - 7283'	220	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	7283' - 11870'	472		Class H: Retarder, Fluid Loss, Defoamer
5.5 in	LEAD	940	13.5	1.85	10970' - 27613'	1740	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Mewbourne Oil Company R-111Q Procedure

Mewbourne Oil Company request permission to perform Open Hole Annulus procedure per R-111Q guidelines to be implemented as follows:

Production String

a) The Production string shall consist new oil field casing in good condition that meets API specifications, rated for the loads expected over the lifecycle of the well.

b) For wells within the KPLA where a 2nd intermediate string will not be utilized resulting in a 3 String Design (Surface, Salt or Salt/Capitan Reef, Production), the following safeguard shall apply to safely divert flow of wellbore fluids away from the Salt Interval in the event of a catastrophic production casing failure. The Surface Equipment utilized during stimulation operations should be designed to relieve pressure from the production x intermediate casing annulus below the burst threshold of the casing string components.

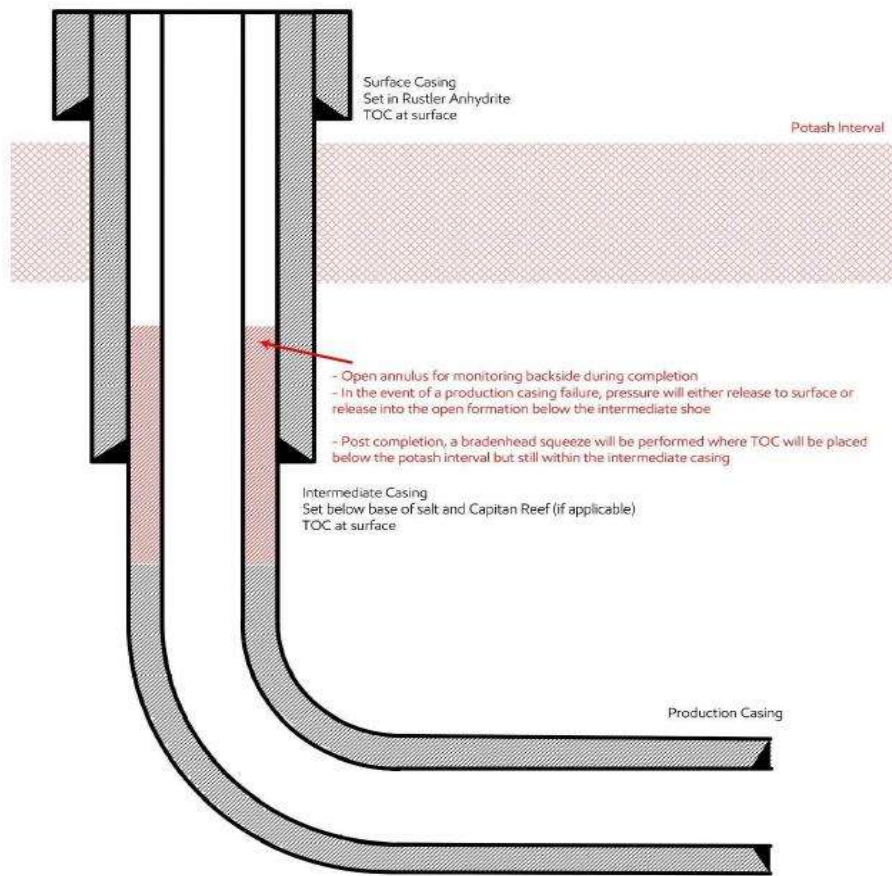
i. A monitored open annulus will be incorporated during completion by leaving the 1st Intermediate Casing x Production Casing annulus un-cemented and monitored inside the 1st Intermediate String. Reference wellbore diagram.

i. The top of cement in the Production Casing x 1st Intermediate Casing Annulus shall stand uncemented at least 500' below the 1st Intermediate Casing Shoe. Zero percent excess shall be pumped on the Production Cementing Slurry to ensure no tie-back into the 1st Intermediate Casing Shoe.

ii. After Stimulation Operations have been concluded and no longer than 180 days after the well is brought online, the operator will be responsible for Bradenheading cement to ensure at least a 500' tie back has been established inside the 1st Intermediate (Salt String / Capitan String) but not higher than Marker Bed No. 126 (base of the Potash mining interval).

iii. The top of cement may be estimated through pumped displacement volumes or with the use of a fluid shot tool prior to filling backside with fluid.

3-String Design – Open Production Casing Annulus



Mewbourne Oil Company, Lox 18/14 B3PM Fed Com 1H
Sec 17, T21S, R32E
SHL: 1390' FSL 1440' FWL (Sec 17)
BHL: 990' FSL 100' FWL (Sec 14)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
									1.8 Wet	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'	1100'	1100'	13.375" 48# H40 STC	1.57	3.52	6.10	10.25
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96	2.98	3.70
Intermediate	12.25"	3385'	3385'	4145'	4145'	9.625" 40# J55 LTC	1.17	1.80	17.11	20.72
Production	8.75"	0'	0'	10970'	10905'	7 5/8" 29.7# HCP110 GBCD	1.51	1.72	2.36	2.89
Liner	6.75"	10770'	10748'	27613'	11303'	5.5" 20# HPP110 Talon	1.55	1.76	1.63	1.90

Cement Program

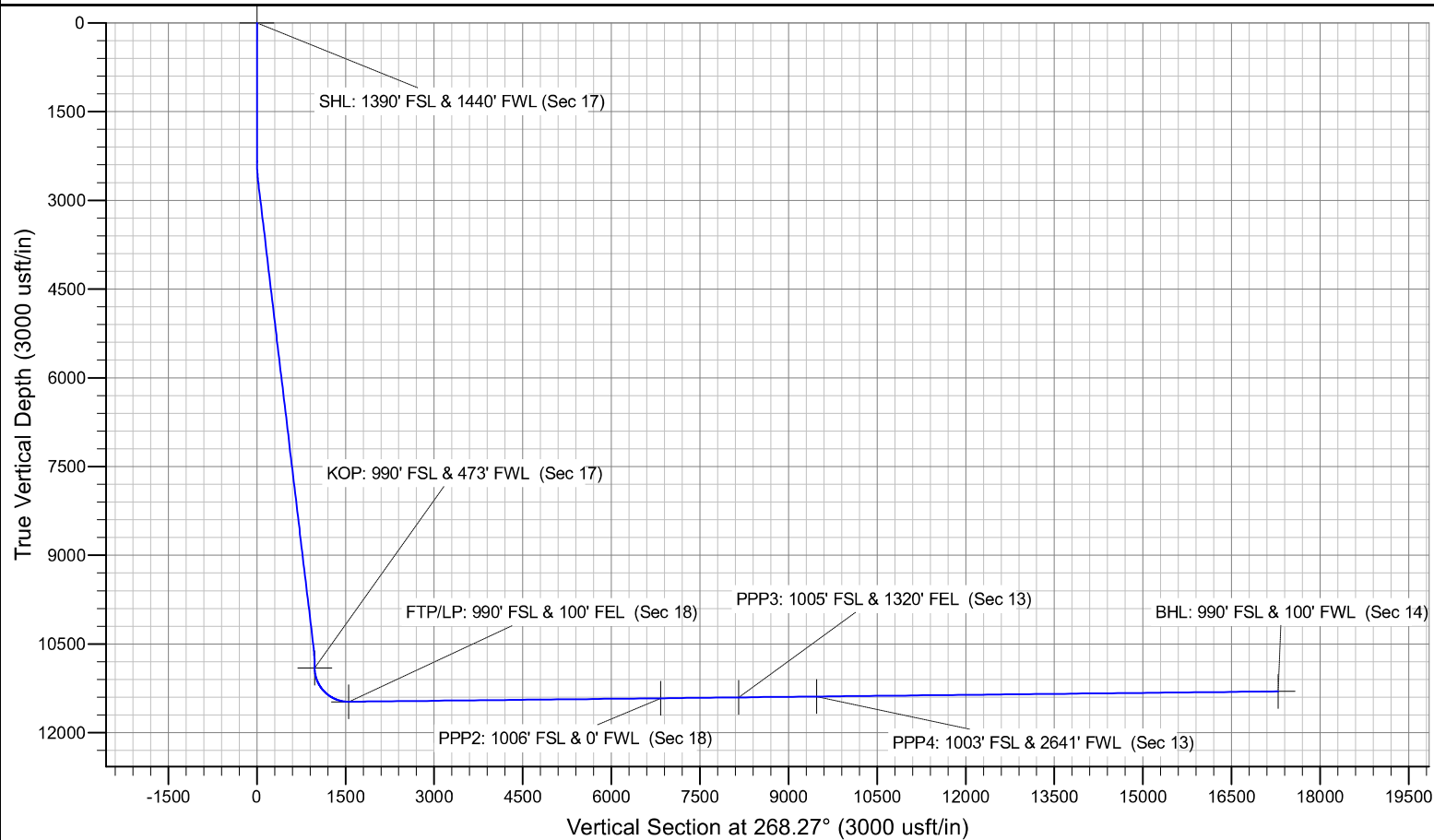
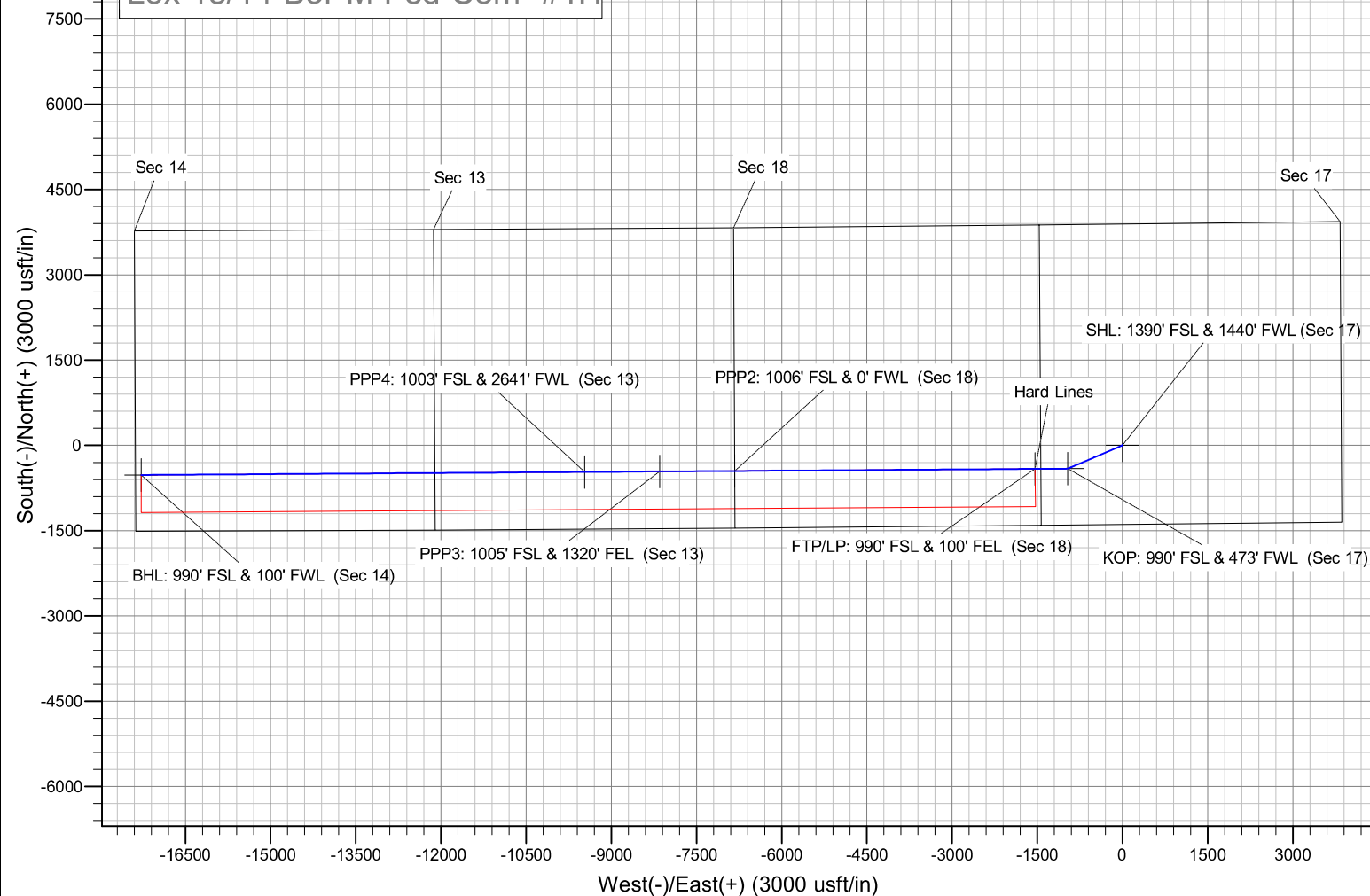
Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
13.375 in	LEAD	600	12.5	2.12	0' - 910'	1280	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	910' - 1100'	268		Class C: Retarder
9.625 in	LEAD	640	12.5	2.12	0' - 3463'	1360	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3463' - 4145'	268		Class C: Retarder
7.625 in	LEAD	60	12.5	2.12	5145' - 6403'	130	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6403' - 10970'	472		Class H: Retarder, Fluid Loss, Defoamer
7.625" TOC @ 5145', BHS TOC @ 3645'								
Braden Head Sqz	LEAD	140	14.8	1.34	3645' - 5145'	190	25%	Class C
5.5 in	LEAD	950	13.5	1.85	10770' - 27613'	1760	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
									1.8 Wet	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'	1100'	1100'	13.375" 48# H40 STC	1.57	3.52	6.10	10.25
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96	2.98	3.70
Intermediate	12.25"	3385'	3385'	4145'	4145'	9.625" 40# J55 LTC	1.17	1.80	17.11	20.72
Production	8.75"	0'	0'	11870'	11478'	7 5/8" 29.7# HCP110 GBCD	1.23	1.64	2.18	2.67
Liner	6.75"	10970'	10905'	27613'	11303'	5.5" 20# HPP110 Talon	1.55	1.76	1.65	1.93

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
13.375 in	LEAD	600	12.5	2.12	0' - 910'	1280	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	910' - 1100'	268		Class C: Retarder
1st Stg 9.625 in	LEAD	640	12.5	2.12	0' - 3463'	1360	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3463' - 4145'	268		Class C: Retarder
7.625 in	LEAD	100	12.5	2.12	5145' - 7283'	220	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	7283' - 11870'	472		Class H: Retarder, Fluid Loss, Defoamer
7.625" TOC @ 5145', BHS TOC @ 3645'								
Braden Head Sqz	LEAD	140	14.8	1.34	3645' - 5145'	190	25%	Class C
	LEAD	940	13.5	1.85	10970' - 27613'	1740	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Lox 18/14 B3PM Fed Com #1H



Mewbourne Oil Company

Lea County, New Mexico NAD 83

Lox 18/14 B3PM Fed Com #1H

Sec 17, T21S, R32E

SHL: 1390' FSL & 1440' FWL (Sec 17)

BHL: 990' FSL & 100' FWL (Sec 14)

Plan: Design #1

Standard Planning Report

03 April, 2025

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Lox 18/14 B3PM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3664.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3664.0usft (Original Well Elev)
Site:	Lox 18/14 B3PM Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FSL & 100' FWL (Sec 14)		
Design:	Design #1		

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

Site		Lox 18/14 B3PM Fed Com #1H			
Site Position:		Northing:	537,201.30 usft	Latitude:	32.4752398
From:	Map	Easting:	736,408.10 usft	Longitude:	-103.7007701
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	Sec 17, T21S, R32E					
Well Position	+N/-S	0.0 usft	Northing:	537,201.30 usft	Latitude:	32.4752398
	+E/-W	0.0 usft	Easting:	736,408.10 usft	Longitude:	-103.7007701
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,664.0 usft	Ground Level:	3,636.0 usft
Grid Convergence:		0.34 °				

Wellbore	BHL: 990' FSL & 100' FWL (Sec 14)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.23	60.31	48,397.60676282

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	268.27	

Plan Survey Tool Program	Date	4/3/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	27,613.8	Design #1 (BHL: 990' FSL & 100'		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,347.0	0.00	0.00	2,347.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,711.3	7.29	246.97	2,710.4	-9.1	-21.3	2.00	2.00	0.00	246.97	
10,606.4	7.29	246.97	10,541.6	-400.7	-942.9	0.00	0.00	0.00	0.00	
10,970.7	0.00	0.00	10,905.0	-409.8	-964.2	2.00	-2.00	0.00	180.00	KOP: 990' FSL & 473'
11,877.2	90.64	269.61	11,478.0	-413.8	-1,543.6	10.00	10.00	0.00	-90.39	
27,613.8	90.64	269.61	11,303.0	-521.9	-17,278.8	0.00	0.00	0.00	0.00	BHL: 990' FSL & 100'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Lox 18/14 B3PM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3664.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3664.0usft (Original Well Elev)
Site:	Lox 18/14 B3PM Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FSL & 100' FWL (Sec 14)		
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: 1390' FSL & 1440' FWL (Sec 17)									
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	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
550.0	0.00	0.00	550.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
650.0	0.00	0.00	650.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
750.0	0.00	0.00	750.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
850.0	0.00	0.00	850.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
950.0	0.00	0.00	950.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,050.0	0.00	0.00	1,050.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,150.0	0.00	0.00	1,150.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,250.0	0.00	0.00	1,250.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,350.0	0.00	0.00	1,350.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,550.0	0.00	0.00	1,550.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,650.0	0.00	0.00	1,650.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,750.0	0.00	0.00	1,750.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,850.0	0.00	0.00	1,850.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,950.0	0.00	0.00	1,950.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,050.0	0.00	0.00	2,050.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,150.0	0.00	0.00	2,150.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,250.0	0.00	0.00	2,250.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,347.0	0.00	0.00	2,347.0	0.0	0.0	0.0	0.00	0.00	0.00
2,350.0	0.06	246.97	2,350.0	0.0	0.0	0.0	2.00	2.00	0.00
2,400.0	1.06	246.97	2,400.0	-0.2	-0.5	0.5	2.00	2.00	0.00
2,450.0	2.06	246.97	2,450.0	-0.7	-1.7	1.7	2.00	2.00	0.00
2,500.0	3.06	246.97	2,499.9	-1.6	-3.8	3.8	2.00	2.00	0.00
2,550.0	4.06	246.97	2,549.8	-2.8	-6.6	6.7	2.00	2.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Lox 18/14 B3PM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3664.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3664.0usft (Original Well Elev)
Site:	Lox 18/14 B3PM Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FSL & 100' FWL (Sec 14)		
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	5.06	246.97	2,599.7	-4.4	-10.3	10.4	2.00	2.00	0.00
2,650.0	6.06	246.97	2,649.4	-6.3	-14.7	14.9	2.00	2.00	0.00
2,700.0	7.06	246.97	2,699.1	-8.5	-20.0	20.2	2.00	2.00	0.00
2,711.3	7.29	246.97	2,710.4	-9.1	-21.3	21.6	2.00	2.00	0.00
2,750.0	7.29	246.97	2,748.7	-11.0	-25.8	26.1	0.00	0.00	0.00
2,800.0	7.29	246.97	2,798.3	-13.4	-31.6	32.0	0.00	0.00	0.00
2,850.0	7.29	246.97	2,847.9	-15.9	-37.5	37.9	0.00	0.00	0.00
2,900.0	7.29	246.97	2,897.5	-18.4	-43.3	43.9	0.00	0.00	0.00
2,950.0	7.29	246.97	2,947.1	-20.9	-49.2	49.8	0.00	0.00	0.00
3,000.0	7.29	246.97	2,996.7	-23.4	-55.0	55.7	0.00	0.00	0.00
3,050.0	7.29	246.97	3,046.3	-25.9	-60.8	61.6	0.00	0.00	0.00
3,100.0	7.29	246.97	3,095.9	-28.3	-66.7	67.5	0.00	0.00	0.00
3,150.0	7.29	246.97	3,145.5	-30.8	-72.5	73.4	0.00	0.00	0.00
3,200.0	7.29	246.97	3,195.1	-33.3	-78.3	79.3	0.00	0.00	0.00
3,250.0	7.29	246.97	3,244.7	-35.8	-84.2	85.2	0.00	0.00	0.00
3,300.0	7.29	246.97	3,294.3	-38.3	-90.0	91.1	0.00	0.00	0.00
3,350.0	7.29	246.97	3,343.9	-40.7	-95.8	97.0	0.00	0.00	0.00
3,400.0	7.29	246.97	3,393.5	-43.2	-101.7	102.9	0.00	0.00	0.00
3,450.0	7.29	246.97	3,443.1	-45.7	-107.5	108.9	0.00	0.00	0.00
3,500.0	7.29	246.97	3,492.6	-48.2	-113.4	114.8	0.00	0.00	0.00
3,550.0	7.29	246.97	3,542.2	-50.7	-119.2	120.7	0.00	0.00	0.00
3,600.0	7.29	246.97	3,591.8	-53.1	-125.0	126.6	0.00	0.00	0.00
3,650.0	7.29	246.97	3,641.4	-55.6	-130.9	132.5	0.00	0.00	0.00
3,700.0	7.29	246.97	3,691.0	-58.1	-136.7	138.4	0.00	0.00	0.00
3,750.0	7.29	246.97	3,740.6	-60.6	-142.5	144.3	0.00	0.00	0.00
3,800.0	7.29	246.97	3,790.2	-63.1	-148.4	150.2	0.00	0.00	0.00
3,850.0	7.29	246.97	3,839.8	-65.5	-154.2	156.1	0.00	0.00	0.00
3,900.0	7.29	246.97	3,889.4	-68.0	-160.0	162.0	0.00	0.00	0.00
3,950.0	7.29	246.97	3,939.0	-70.5	-165.9	167.9	0.00	0.00	0.00
4,000.0	7.29	246.97	3,988.6	-73.0	-171.7	173.8	0.00	0.00	0.00
4,050.0	7.29	246.97	4,038.2	-75.5	-177.6	179.8	0.00	0.00	0.00
4,100.0	7.29	246.97	4,087.8	-77.9	-183.4	185.7	0.00	0.00	0.00
4,150.0	7.29	246.97	4,137.4	-80.4	-189.2	191.6	0.00	0.00	0.00
4,200.0	7.29	246.97	4,187.0	-82.9	-195.1	197.5	0.00	0.00	0.00
4,250.0	7.29	246.97	4,236.6	-85.4	-200.9	203.4	0.00	0.00	0.00
4,300.0	7.29	246.97	4,286.2	-87.9	-206.7	209.3	0.00	0.00	0.00
4,350.0	7.29	246.97	4,335.8	-90.3	-212.6	215.2	0.00	0.00	0.00
4,400.0	7.29	246.97	4,385.4	-92.8	-218.4	221.1	0.00	0.00	0.00
4,450.0	7.29	246.97	4,435.0	-95.3	-224.3	227.0	0.00	0.00	0.00
4,500.0	7.29	246.97	4,484.6	-97.8	-230.1	232.9	0.00	0.00	0.00
4,550.0	7.29	246.97	4,534.2	-100.3	-235.9	238.8	0.00	0.00	0.00
4,600.0	7.29	246.97	4,583.8	-102.8	-241.8	244.8	0.00	0.00	0.00
4,650.0	7.29	246.97	4,633.4	-105.2	-247.6	250.7	0.00	0.00	0.00
4,700.0	7.29	246.97	4,683.0	-107.7	-253.4	256.6	0.00	0.00	0.00
4,750.0	7.29	246.97	4,732.6	-110.2	-259.3	262.5	0.00	0.00	0.00
4,800.0	7.29	246.97	4,782.1	-112.7	-265.1	268.4	0.00	0.00	0.00
4,850.0	7.29	246.97	4,831.7	-115.2	-270.9	274.3	0.00	0.00	0.00
4,900.0	7.29	246.97	4,881.3	-117.6	-276.8	280.2	0.00	0.00	0.00
4,950.0	7.29	246.97	4,930.9	-120.1	-282.6	286.1	0.00	0.00	0.00
5,000.0	7.29	246.97	4,980.5	-122.6	-288.5	292.0	0.00	0.00	0.00
5,050.0	7.29	246.97	5,030.1	-125.1	-294.3	297.9	0.00	0.00	0.00
5,100.0	7.29	246.97	5,079.7	-127.6	-300.1	303.8	0.00	0.00	0.00
5,150.0	7.29	246.97	5,129.3	-130.0	-306.0	309.8	0.00	0.00	0.00
5,200.0	7.29	246.97	5,178.9	-132.5	-311.8	315.7	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Lox 18/14 B3PM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3664.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3664.0usft (Original Well Elev)
Site:	Lox 18/14 B3PM Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FSL & 100' FWL (Sec 14)		
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)
5,250.0	7.29	246.97	5,228.5	-135.0	-317.6	321.6	0.00	0.00	0.00
5,300.0	7.29	246.97	5,278.1	-137.5	-323.5	327.5	0.00	0.00	0.00
5,350.0	7.29	246.97	5,327.7	-140.0	-329.3	333.4	0.00	0.00	0.00
5,400.0	7.29	246.97	5,377.3	-142.4	-335.1	339.3	0.00	0.00	0.00
5,450.0	7.29	246.97	5,426.9	-144.9	-341.0	345.2	0.00	0.00	0.00
5,500.0	7.29	246.97	5,476.5	-147.4	-346.8	351.1	0.00	0.00	0.00
5,550.0	7.29	246.97	5,526.1	-149.9	-352.7	357.0	0.00	0.00	0.00
5,600.0	7.29	246.97	5,575.7	-152.4	-358.5	362.9	0.00	0.00	0.00
5,650.0	7.29	246.97	5,625.3	-154.8	-364.3	368.8	0.00	0.00	0.00
5,700.0	7.29	246.97	5,674.9	-157.3	-370.2	374.7	0.00	0.00	0.00
5,750.0	7.29	246.97	5,724.5	-159.8	-376.0	380.7	0.00	0.00	0.00
5,800.0	7.29	246.97	5,774.1	-162.3	-381.8	386.6	0.00	0.00	0.00
5,850.0	7.29	246.97	5,823.7	-164.8	-387.7	392.5	0.00	0.00	0.00
5,900.0	7.29	246.97	5,873.3	-167.3	-393.5	398.4	0.00	0.00	0.00
5,950.0	7.29	246.97	5,922.9	-169.7	-399.4	404.3	0.00	0.00	0.00
6,000.0	7.29	246.97	5,972.5	-172.2	-405.2	410.2	0.00	0.00	0.00
6,050.0	7.29	246.97	6,022.1	-174.7	-411.0	416.1	0.00	0.00	0.00
6,100.0	7.29	246.97	6,071.6	-177.2	-416.9	422.0	0.00	0.00	0.00
6,150.0	7.29	246.97	6,121.2	-179.7	-422.7	427.9	0.00	0.00	0.00
6,200.0	7.29	246.97	6,170.8	-182.1	-428.5	433.8	0.00	0.00	0.00
6,250.0	7.29	246.97	6,220.4	-184.6	-434.4	439.7	0.00	0.00	0.00
6,300.0	7.29	246.97	6,270.0	-187.1	-440.2	445.7	0.00	0.00	0.00
6,350.0	7.29	246.97	6,319.6	-189.6	-446.0	451.6	0.00	0.00	0.00
6,400.0	7.29	246.97	6,369.2	-192.1	-451.9	457.5	0.00	0.00	0.00
6,450.0	7.29	246.97	6,418.8	-194.5	-457.7	463.4	0.00	0.00	0.00
6,500.0	7.29	246.97	6,468.4	-197.0	-463.6	469.3	0.00	0.00	0.00
6,550.0	7.29	246.97	6,518.0	-199.5	-469.4	475.2	0.00	0.00	0.00
6,600.0	7.29	246.97	6,567.6	-202.0	-475.2	481.1	0.00	0.00	0.00
6,650.0	7.29	246.97	6,617.2	-204.5	-481.1	487.0	0.00	0.00	0.00
6,700.0	7.29	246.97	6,666.8	-206.9	-486.9	492.9	0.00	0.00	0.00
6,750.0	7.29	246.97	6,716.4	-209.4	-492.7	498.8	0.00	0.00	0.00
6,800.0	7.29	246.97	6,766.0	-211.9	-498.6	504.7	0.00	0.00	0.00
6,850.0	7.29	246.97	6,815.6	-214.4	-504.4	510.7	0.00	0.00	0.00
6,900.0	7.29	246.97	6,865.2	-216.9	-510.2	516.6	0.00	0.00	0.00
6,950.0	7.29	246.97	6,914.8	-219.3	-516.1	522.5	0.00	0.00	0.00
7,000.0	7.29	246.97	6,964.4	-221.8	-521.9	528.4	0.00	0.00	0.00
7,050.0	7.29	246.97	7,014.0	-224.3	-527.8	534.3	0.00	0.00	0.00
7,100.0	7.29	246.97	7,063.6	-226.8	-533.6	540.2	0.00	0.00	0.00
7,150.0	7.29	246.97	7,113.2	-229.3	-539.4	546.1	0.00	0.00	0.00
7,200.0	7.29	246.97	7,162.8	-231.7	-545.3	552.0	0.00	0.00	0.00
7,250.0	7.29	246.97	7,212.4	-234.2	-551.1	557.9	0.00	0.00	0.00
7,300.0	7.29	246.97	7,262.0	-236.7	-556.9	563.8	0.00	0.00	0.00
7,350.0	7.29	246.97	7,311.6	-239.2	-562.8	569.7	0.00	0.00	0.00
7,400.0	7.29	246.97	7,361.1	-241.7	-568.6	575.7	0.00	0.00	0.00
7,450.0	7.29	246.97	7,410.7	-244.2	-574.5	581.6	0.00	0.00	0.00
7,500.0	7.29	246.97	7,460.3	-246.6	-580.3	587.5	0.00	0.00	0.00
7,550.0	7.29	246.97	7,509.9	-249.1	-586.1	593.4	0.00	0.00	0.00
7,600.0	7.29	246.97	7,559.5	-251.6	-592.0	599.3	0.00	0.00	0.00
7,650.0	7.29	246.97	7,609.1	-254.1	-597.8	605.2	0.00	0.00	0.00
7,700.0	7.29	246.97	7,658.7	-256.6	-603.6	611.1	0.00	0.00	0.00
7,750.0	7.29	246.97	7,708.3	-259.0	-609.5	617.0	0.00	0.00	0.00
7,800.0	7.29	246.97	7,757.9	-261.5	-615.3	622.9	0.00	0.00	0.00
7,850.0	7.29	246.97	7,807.5	-264.0	-621.1	628.8	0.00	0.00	0.00
7,900.0	7.29	246.97	7,857.1	-266.5	-627.0	634.7	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Lox 18/14 B3PM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3664.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3664.0usft (Original Well Elev)
Site:	Lox 18/14 B3PM Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FSL & 100' FWL (Sec 14)		
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	7.29	246.97	7,906.7	-269.0	-632.8	640.6	0.00	0.00	0.00
8,000.0	7.29	246.97	7,956.3	-271.4	-638.7	646.6	0.00	0.00	0.00
8,050.0	7.29	246.97	8,005.9	-273.9	-644.5	652.5	0.00	0.00	0.00
8,100.0	7.29	246.97	8,055.5	-276.4	-650.3	658.4	0.00	0.00	0.00
8,150.0	7.29	246.97	8,105.1	-278.9	-656.2	664.3	0.00	0.00	0.00
8,200.0	7.29	246.97	8,154.7	-281.4	-662.0	670.2	0.00	0.00	0.00
8,250.0	7.29	246.97	8,204.3	-283.8	-667.8	676.1	0.00	0.00	0.00
8,300.0	7.29	246.97	8,253.9	-286.3	-673.7	682.0	0.00	0.00	0.00
8,350.0	7.29	246.97	8,303.5	-288.8	-679.5	687.9	0.00	0.00	0.00
8,400.0	7.29	246.97	8,353.1	-291.3	-685.3	693.8	0.00	0.00	0.00
8,450.0	7.29	246.97	8,402.7	-293.8	-691.2	699.7	0.00	0.00	0.00
8,500.0	7.29	246.97	8,452.3	-296.2	-697.0	705.6	0.00	0.00	0.00
8,550.0	7.29	246.97	8,501.9	-298.7	-702.9	711.6	0.00	0.00	0.00
8,600.0	7.29	246.97	8,551.5	-301.2	-708.7	717.5	0.00	0.00	0.00
8,650.0	7.29	246.97	8,601.1	-303.7	-714.5	723.4	0.00	0.00	0.00
8,700.0	7.29	246.97	8,650.7	-306.2	-720.4	729.3	0.00	0.00	0.00
8,750.0	7.29	246.97	8,700.2	-308.6	-726.2	735.2	0.00	0.00	0.00
8,800.0	7.29	246.97	8,749.8	-311.1	-732.0	741.1	0.00	0.00	0.00
8,850.0	7.29	246.97	8,799.4	-313.6	-737.9	747.0	0.00	0.00	0.00
8,900.0	7.29	246.97	8,849.0	-316.1	-743.7	752.9	0.00	0.00	0.00
8,950.0	7.29	246.97	8,898.6	-318.6	-749.6	758.8	0.00	0.00	0.00
9,000.0	7.29	246.97	8,948.2	-321.1	-755.4	764.7	0.00	0.00	0.00
9,050.0	7.29	246.97	8,997.8	-323.5	-761.2	770.6	0.00	0.00	0.00
9,100.0	7.29	246.97	9,047.4	-326.0	-767.1	776.6	0.00	0.00	0.00
9,150.0	7.29	246.97	9,097.0	-328.5	-772.9	782.5	0.00	0.00	0.00
9,200.0	7.29	246.97	9,146.6	-331.0	-778.7	788.4	0.00	0.00	0.00
9,250.0	7.29	246.97	9,196.2	-333.5	-784.6	794.3	0.00	0.00	0.00
9,300.0	7.29	246.97	9,245.8	-335.9	-790.4	800.2	0.00	0.00	0.00
9,350.0	7.29	246.97	9,295.4	-338.4	-796.2	806.1	0.00	0.00	0.00
9,400.0	7.29	246.97	9,345.0	-340.9	-802.1	812.0	0.00	0.00	0.00
9,450.0	7.29	246.97	9,394.6	-343.4	-807.9	817.9	0.00	0.00	0.00
9,500.0	7.29	246.97	9,444.2	-345.9	-813.8	823.8	0.00	0.00	0.00
9,550.0	7.29	246.97	9,493.8	-348.3	-819.6	829.7	0.00	0.00	0.00
9,600.0	7.29	246.97	9,543.4	-350.8	-825.4	835.6	0.00	0.00	0.00
9,650.0	7.29	246.97	9,593.0	-353.3	-831.3	841.6	0.00	0.00	0.00
9,700.0	7.29	246.97	9,642.6	-355.8	-837.1	847.5	0.00	0.00	0.00
9,750.0	7.29	246.97	9,692.2	-358.3	-842.9	853.4	0.00	0.00	0.00
9,800.0	7.29	246.97	9,741.8	-360.7	-848.8	859.3	0.00	0.00	0.00
9,850.0	7.29	246.97	9,791.4	-363.2	-854.6	865.2	0.00	0.00	0.00
9,900.0	7.29	246.97	9,841.0	-365.7	-860.4	871.1	0.00	0.00	0.00
9,950.0	7.29	246.97	9,890.6	-368.2	-866.3	877.0	0.00	0.00	0.00
10,000.0	7.29	246.97	9,940.2	-370.7	-872.1	882.9	0.00	0.00	0.00
10,050.0	7.29	246.97	9,989.7	-373.1	-878.0	888.8	0.00	0.00	0.00
10,100.0	7.29	246.97	10,039.3	-375.6	-883.8	894.7	0.00	0.00	0.00
10,150.0	7.29	246.97	10,088.9	-378.1	-889.6	900.6	0.00	0.00	0.00
10,200.0	7.29	246.97	10,138.5	-380.6	-895.5	906.5	0.00	0.00	0.00
10,250.0	7.29	246.97	10,188.1	-383.1	-901.3	912.5	0.00	0.00	0.00
10,300.0	7.29	246.97	10,237.7	-385.5	-907.1	918.4	0.00	0.00	0.00
10,350.0	7.29	246.97	10,287.3	-388.0	-913.0	924.3	0.00	0.00	0.00
10,400.0	7.29	246.97	10,336.9	-390.5	-918.8	930.2	0.00	0.00	0.00
10,450.0	7.29	246.97	10,386.5	-393.0	-924.7	936.1	0.00	0.00	0.00
10,500.0	7.29	246.97	10,436.1	-395.5	-930.5	942.0	0.00	0.00	0.00
10,550.0	7.29	246.97	10,485.7	-398.0	-936.3	947.9	0.00	0.00	0.00
10,600.0	7.29	246.97	10,535.3	-400.4	-942.2	953.8	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Lox 18/14 B3PM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3664.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3664.0usft (Original Well Elev)
Site:	Lox 18/14 B3PM Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FSL & 100' FWL (Sec 14)		
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)
10,606.4	7.29	246.97	10,541.6	-400.7	-942.9	954.6	0.00	0.00	0.00
10,650.0	6.41	246.97	10,584.9	-402.8	-947.7	959.4	2.00	-2.00	0.00
10,700.0	5.41	246.97	10,634.7	-404.8	-952.4	964.2	2.00	-2.00	0.00
10,750.0	4.41	246.97	10,684.5	-406.5	-956.4	968.2	2.00	-2.00	0.00
10,800.0	3.41	246.97	10,734.4	-407.8	-959.5	971.4	2.00	-2.00	0.00
10,850.0	2.41	246.97	10,784.3	-408.8	-961.9	973.8	2.00	-2.00	0.00
10,900.0	1.41	246.97	10,834.3	-409.5	-963.4	975.3	2.00	-2.00	0.00
10,950.0	0.41	246.97	10,884.3	-409.8	-964.1	976.1	2.00	-2.00	0.00
10,970.7	0.00	0.00	10,905.0	-409.8	-964.2	976.1	2.00	-2.00	0.00
KOP: 990' FSL & 473' FWL (Sec 17)									
11,000.0	2.93	269.61	10,934.3	-409.8	-964.9	976.9	10.00	10.00	0.00
11,050.0	7.93	269.61	10,984.0	-409.8	-969.7	981.6	10.00	10.00	0.00
11,100.0	12.93	269.61	11,033.2	-409.9	-978.7	990.6	10.00	10.00	0.00
11,150.0	17.92	269.61	11,081.4	-410.0	-992.0	1,003.9	10.00	10.00	0.00
11,200.0	22.92	269.61	11,128.2	-410.1	-1,009.5	1,021.4	10.00	10.00	0.00
11,250.0	27.92	269.61	11,173.3	-410.3	-1,030.9	1,042.8	10.00	10.00	0.00
11,300.0	32.92	269.61	11,216.4	-410.4	-1,056.2	1,068.1	10.00	10.00	0.00
11,350.0	37.92	269.61	11,257.2	-410.6	-1,085.2	1,097.1	10.00	10.00	0.00
11,400.0	42.92	269.61	11,295.2	-410.9	-1,117.6	1,129.5	10.00	10.00	0.00
11,450.0	47.92	269.61	11,330.3	-411.1	-1,153.2	1,165.1	10.00	10.00	0.00
11,500.0	52.92	269.61	11,362.2	-411.4	-1,191.7	1,203.6	10.00	10.00	0.00
11,550.0	57.92	269.61	11,390.5	-411.6	-1,232.9	1,244.7	10.00	10.00	0.00
11,600.0	62.92	269.61	11,415.2	-411.9	-1,276.4	1,288.2	10.00	10.00	0.00
11,650.0	67.92	269.61	11,436.0	-412.3	-1,321.8	1,333.6	10.00	10.00	0.00
11,700.0	72.92	269.61	11,452.8	-412.6	-1,368.9	1,380.7	10.00	10.00	0.00
11,750.0	77.92	269.61	11,465.3	-412.9	-1,417.3	1,429.1	10.00	10.00	0.00
11,800.0	82.92	269.61	11,473.7	-413.3	-1,466.6	1,478.4	10.00	10.00	0.00
11,850.0	87.92	269.61	11,477.7	-413.6	-1,516.4	1,528.2	10.00	10.00	0.00
11,870.7	89.99	269.61	11,478.0	-413.7	-1,537.1	1,548.9	10.00	10.00	0.00
FTP/LP: 990' FSL & 100' FEL (Sec 18)									
11,877.2	90.64	269.61	11,478.0	-413.8	-1,543.6	1,555.4	10.00	10.00	0.00
11,900.0	90.64	269.61	11,477.7	-413.9	-1,566.4	1,578.2	0.00	0.00	0.00
11,950.0	90.64	269.61	11,477.2	-414.3	-1,616.4	1,628.1	0.00	0.00	0.00
12,000.0	90.64	269.61	11,476.6	-414.6	-1,666.4	1,678.1	0.00	0.00	0.00
12,050.0	90.64	269.61	11,476.1	-415.0	-1,716.4	1,728.1	0.00	0.00	0.00
12,100.0	90.64	269.61	11,475.5	-415.3	-1,766.4	1,778.1	0.00	0.00	0.00
12,150.0	90.64	269.61	11,475.0	-415.7	-1,816.3	1,828.1	0.00	0.00	0.00
12,200.0	90.64	269.61	11,474.4	-416.0	-1,866.3	1,878.1	0.00	0.00	0.00
12,250.0	90.64	269.61	11,473.9	-416.3	-1,916.3	1,928.0	0.00	0.00	0.00
12,300.0	90.64	269.61	11,473.3	-416.7	-1,966.3	1,978.0	0.00	0.00	0.00
12,350.0	90.64	269.61	11,472.7	-417.0	-2,016.3	2,028.0	0.00	0.00	0.00
12,400.0	90.64	269.61	11,472.2	-417.4	-2,066.3	2,078.0	0.00	0.00	0.00
12,450.0	90.64	269.61	11,471.6	-417.7	-2,116.3	2,128.0	0.00	0.00	0.00
12,500.0	90.64	269.61	11,471.1	-418.1	-2,166.3	2,178.0	0.00	0.00	0.00
12,550.0	90.64	269.61	11,470.5	-418.4	-2,216.3	2,227.9	0.00	0.00	0.00
12,600.0	90.64	269.61	11,470.0	-418.7	-2,266.3	2,277.9	0.00	0.00	0.00
12,650.0	90.64	269.61	11,469.4	-419.1	-2,316.3	2,327.9	0.00	0.00	0.00
12,700.0	90.64	269.61	11,468.9	-419.4	-2,366.3	2,377.9	0.00	0.00	0.00
12,750.0	90.64	269.61	11,468.3	-419.8	-2,416.3	2,427.9	0.00	0.00	0.00
12,800.0	90.64	269.61	11,467.7	-420.1	-2,466.3	2,477.9	0.00	0.00	0.00
12,850.0	90.64	269.61	11,467.2	-420.5	-2,516.3	2,527.8	0.00	0.00	0.00
12,900.0	90.64	269.61	11,466.6	-420.8	-2,566.3	2,577.8	0.00	0.00	0.00
12,950.0	90.64	269.61	11,466.1	-421.2	-2,616.3	2,627.8	0.00	0.00	0.00
13,000.0	90.64	269.61	11,465.5	-421.5	-2,666.3	2,677.8	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Lox 18/14 B3PM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3664.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3664.0usft (Original Well Elev)
Site:	Lox 18/14 B3PM Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FSL & 100' FWL (Sec 14)		
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)	
13,050.0	90.64	269.61	11,465.0	-421.8	-2,716.3	2,727.8	0.00	0.00	0.00	
13,100.0	90.64	269.61	11,464.4	-422.2	-2,766.3	2,777.8	0.00	0.00	0.00	
13,150.0	90.64	269.61	11,463.8	-422.5	-2,816.3	2,827.7	0.00	0.00	0.00	
13,200.0	90.64	269.61	11,463.3	-422.9	-2,866.3	2,877.7	0.00	0.00	0.00	
13,250.0	90.64	269.61	11,462.7	-423.2	-2,916.3	2,927.7	0.00	0.00	0.00	
13,300.0	90.64	269.61	11,462.2	-423.6	-2,966.2	2,977.7	0.00	0.00	0.00	
13,350.0	90.64	269.61	11,461.6	-423.9	-3,016.2	3,027.7	0.00	0.00	0.00	
13,400.0	90.64	269.61	11,461.1	-424.2	-3,066.2	3,077.7	0.00	0.00	0.00	
13,450.0	90.64	269.61	11,460.5	-424.6	-3,116.2	3,127.6	0.00	0.00	0.00	
13,500.0	90.64	269.61	11,460.0	-424.9	-3,166.2	3,177.6	0.00	0.00	0.00	
13,550.0	90.64	269.61	11,459.4	-425.3	-3,216.2	3,227.6	0.00	0.00	0.00	
13,600.0	90.64	269.61	11,458.8	-425.6	-3,266.2	3,277.6	0.00	0.00	0.00	
13,650.0	90.64	269.61	11,458.3	-426.0	-3,316.2	3,327.6	0.00	0.00	0.00	
13,700.0	90.64	269.61	11,457.7	-426.3	-3,366.2	3,377.6	0.00	0.00	0.00	
13,750.0	90.64	269.61	11,457.2	-426.6	-3,416.2	3,427.5	0.00	0.00	0.00	
13,800.0	90.64	269.61	11,456.6	-427.0	-3,466.2	3,477.5	0.00	0.00	0.00	
13,850.0	90.64	269.61	11,456.1	-427.3	-3,516.2	3,527.5	0.00	0.00	0.00	
13,900.0	90.64	269.61	11,455.5	-427.7	-3,566.2	3,577.5	0.00	0.00	0.00	
13,950.0	90.64	269.61	11,454.9	-428.0	-3,616.2	3,627.5	0.00	0.00	0.00	
14,000.0	90.64	269.61	11,454.4	-428.4	-3,666.2	3,677.5	0.00	0.00	0.00	
14,050.0	90.64	269.61	11,453.8	-428.7	-3,716.2	3,727.4	0.00	0.00	0.00	
14,100.0	90.64	269.61	11,453.3	-429.1	-3,766.2	3,777.4	0.00	0.00	0.00	
14,150.0	90.64	269.61	11,452.7	-429.4	-3,816.2	3,827.4	0.00	0.00	0.00	
14,200.0	90.64	269.61	11,452.2	-429.7	-3,866.2	3,877.4	0.00	0.00	0.00	
14,250.0	90.64	269.61	11,451.6	-430.1	-3,916.2	3,927.4	0.00	0.00	0.00	
14,300.0	90.64	269.61	11,451.1	-430.4	-3,966.2	3,977.4	0.00	0.00	0.00	
14,350.0	90.64	269.61	11,450.5	-430.8	-4,016.2	4,027.3	0.00	0.00	0.00	
14,400.0	90.64	269.61	11,449.9	-431.1	-4,066.2	4,077.3	0.00	0.00	0.00	
14,450.0	90.64	269.61	11,449.4	-431.5	-4,116.2	4,127.3	0.00	0.00	0.00	
14,500.0	90.64	269.61	11,448.8	-431.8	-4,166.1	4,177.3	0.00	0.00	0.00	
14,550.0	90.64	269.61	11,448.3	-432.1	-4,216.1	4,227.3	0.00	0.00	0.00	
14,600.0	90.64	269.61	11,447.7	-432.5	-4,266.1	4,277.3	0.00	0.00	0.00	
14,650.0	90.64	269.61	11,447.2	-432.8	-4,316.1	4,327.2	0.00	0.00	0.00	
14,700.0	90.64	269.61	11,446.6	-433.2	-4,366.1	4,377.2	0.00	0.00	0.00	
14,750.0	90.64	269.61	11,446.1	-433.5	-4,416.1	4,427.2	0.00	0.00	0.00	
14,800.0	90.64	269.61	11,445.5	-433.9	-4,466.1	4,477.2	0.00	0.00	0.00	
14,850.0	90.64	269.61	11,444.9	-434.2	-4,516.1	4,527.2	0.00	0.00	0.00	
14,900.0	90.64	269.61	11,444.4	-434.5	-4,566.1	4,577.2	0.00	0.00	0.00	
14,950.0	90.64	269.61	11,443.8	-434.9	-4,616.1	4,627.1	0.00	0.00	0.00	
15,000.0	90.64	269.61	11,443.3	-435.2	-4,666.1	4,677.1	0.00	0.00	0.00	
15,050.0	90.64	269.61	11,442.7	-435.6	-4,716.1	4,727.1	0.00	0.00	0.00	
15,100.0	90.64	269.61	11,442.2	-435.9	-4,766.1	4,777.1	0.00	0.00	0.00	
15,150.0	90.64	269.61	11,441.6	-436.3	-4,816.1	4,827.1	0.00	0.00	0.00	
15,200.0	90.64	269.61	11,441.0	-436.6	-4,866.1	4,877.1	0.00	0.00	0.00	
15,250.0	90.64	269.61	11,440.5	-437.0	-4,916.1	4,927.0	0.00	0.00	0.00	
15,300.0	90.64	269.61	11,439.9	-437.3	-4,966.1	4,977.0	0.00	0.00	0.00	
15,350.0	90.64	269.61	11,439.4	-437.6	-5,016.1	5,027.0	0.00	0.00	0.00	
15,400.0	90.64	269.61	11,438.8	-438.0	-5,066.1	5,077.0	0.00	0.00	0.00	
15,450.0	90.64	269.61	11,438.3	-438.3	-5,116.1	5,127.0	0.00	0.00	0.00	
15,500.0	90.64	269.61	11,437.7	-438.7	-5,166.1	5,177.0	0.00	0.00	0.00	
15,550.0	90.64	269.61	11,437.2	-439.0	-5,216.1	5,226.9	0.00	0.00	0.00	
15,600.0	90.64	269.61	11,436.6	-439.4	-5,266.1	5,276.9	0.00	0.00	0.00	
15,650.0	90.64	269.61	11,436.0	-439.7	-5,316.0	5,326.9	0.00	0.00	0.00	
15,700.0	90.64	269.61	11,435.5	-440.0	-5,366.0	5,376.9	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Lox 18/14 B3PM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3664.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3664.0usft (Original Well Elev)
Site:	Lox 18/14 B3PM Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FSL & 100' FWL (Sec 14)		
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)
15,750.0	90.64	269.61	11,434.9	-440.4	-5,416.0	5,426.9	0.00	0.00	0.00
15,800.0	90.64	269.61	11,434.4	-440.7	-5,466.0	5,476.9	0.00	0.00	0.00
15,850.0	90.64	269.61	11,433.8	-441.1	-5,516.0	5,526.8	0.00	0.00	0.00
15,900.0	90.64	269.61	11,433.3	-441.4	-5,566.0	5,576.8	0.00	0.00	0.00
15,950.0	90.64	269.61	11,432.7	-441.8	-5,616.0	5,626.8	0.00	0.00	0.00
16,000.0	90.64	269.61	11,432.2	-442.1	-5,666.0	5,676.8	0.00	0.00	0.00
16,050.0	90.64	269.61	11,431.6	-442.5	-5,716.0	5,726.8	0.00	0.00	0.00
16,100.0	90.64	269.61	11,431.0	-442.8	-5,766.0	5,776.8	0.00	0.00	0.00
16,150.0	90.64	269.61	11,430.5	-443.1	-5,816.0	5,826.7	0.00	0.00	0.00
16,200.0	90.64	269.61	11,429.9	-443.5	-5,866.0	5,876.7	0.00	0.00	0.00
16,250.0	90.64	269.61	11,429.4	-443.8	-5,916.0	5,926.7	0.00	0.00	0.00
16,300.0	90.64	269.61	11,428.8	-444.2	-5,966.0	5,976.7	0.00	0.00	0.00
16,350.0	90.64	269.61	11,428.3	-444.5	-6,016.0	6,026.7	0.00	0.00	0.00
16,400.0	90.64	269.61	11,427.7	-444.9	-6,066.0	6,076.7	0.00	0.00	0.00
16,450.0	90.64	269.61	11,427.1	-445.2	-6,116.0	6,126.6	0.00	0.00	0.00
16,500.0	90.64	269.61	11,426.6	-445.5	-6,166.0	6,176.6	0.00	0.00	0.00
16,550.0	90.64	269.61	11,426.0	-445.9	-6,216.0	6,226.6	0.00	0.00	0.00
16,600.0	90.64	269.61	11,425.5	-446.2	-6,266.0	6,276.6	0.00	0.00	0.00
16,650.0	90.64	269.61	11,424.9	-446.6	-6,316.0	6,326.6	0.00	0.00	0.00
16,700.0	90.64	269.61	11,424.4	-446.9	-6,366.0	6,376.5	0.00	0.00	0.00
16,750.0	90.64	269.61	11,423.8	-447.3	-6,416.0	6,426.5	0.00	0.00	0.00
16,800.0	90.64	269.61	11,423.3	-447.6	-6,466.0	6,476.5	0.00	0.00	0.00
16,850.0	90.64	269.61	11,422.7	-447.9	-6,515.9	6,526.5	0.00	0.00	0.00
16,900.0	90.64	269.61	11,422.1	-448.3	-6,565.9	6,576.5	0.00	0.00	0.00
16,950.0	90.64	269.61	11,421.6	-448.6	-6,615.9	6,626.5	0.00	0.00	0.00
17,000.0	90.64	269.61	11,421.0	-449.0	-6,665.9	6,676.4	0.00	0.00	0.00
17,050.0	90.64	269.61	11,420.5	-449.3	-6,715.9	6,726.4	0.00	0.00	0.00
17,100.0	90.64	269.61	11,419.9	-449.7	-6,765.9	6,776.4	0.00	0.00	0.00
17,150.0	90.64	269.61	11,419.4	-450.0	-6,815.9	6,826.4	0.00	0.00	0.00
17,159.8	90.64	269.61	11,419.3	-450.1	-6,825.7	6,836.2	0.00	0.00	0.00
PPP2: 1006' FSL & 0' FWL (Sec 18)									
17,200.0	90.64	269.61	11,418.8	-450.4	-6,865.9	6,876.4	0.00	0.00	0.00
17,250.0	90.64	269.61	11,418.3	-450.7	-6,915.9	6,926.4	0.00	0.00	0.00
17,300.0	90.64	269.61	11,417.7	-451.0	-6,965.9	6,976.3	0.00	0.00	0.00
17,350.0	90.64	269.61	11,417.1	-451.4	-7,015.9	7,026.3	0.00	0.00	0.00
17,400.0	90.64	269.61	11,416.6	-451.7	-7,065.9	7,076.3	0.00	0.00	0.00
17,450.0	90.64	269.61	11,416.0	-452.1	-7,115.9	7,126.3	0.00	0.00	0.00
17,500.0	90.64	269.61	11,415.5	-452.4	-7,165.9	7,176.3	0.00	0.00	0.00
17,550.0	90.64	269.61	11,414.9	-452.8	-7,215.9	7,226.3	0.00	0.00	0.00
17,600.0	90.64	269.61	11,414.4	-453.1	-7,265.9	7,276.2	0.00	0.00	0.00
17,650.0	90.64	269.61	11,413.8	-453.4	-7,315.9	7,326.2	0.00	0.00	0.00
17,700.0	90.64	269.61	11,413.2	-453.8	-7,365.9	7,376.2	0.00	0.00	0.00
17,750.0	90.64	269.61	11,412.7	-454.1	-7,415.9	7,426.2	0.00	0.00	0.00
17,800.0	90.64	269.61	11,412.1	-454.5	-7,465.9	7,476.2	0.00	0.00	0.00
17,850.0	90.64	269.61	11,411.6	-454.8	-7,515.9	7,526.2	0.00	0.00	0.00
17,900.0	90.64	269.61	11,411.0	-455.2	-7,565.9	7,576.1	0.00	0.00	0.00
17,950.0	90.64	269.61	11,410.5	-455.5	-7,615.9	7,626.1	0.00	0.00	0.00
18,000.0	90.64	269.61	11,409.9	-455.8	-7,665.8	7,676.1	0.00	0.00	0.00
18,050.0	90.64	269.61	11,409.4	-456.2	-7,715.8	7,726.1	0.00	0.00	0.00
18,100.0	90.64	269.61	11,408.8	-456.5	-7,765.8	7,776.1	0.00	0.00	0.00
18,150.0	90.64	269.61	11,408.2	-456.9	-7,815.8	7,826.1	0.00	0.00	0.00
18,200.0	90.64	269.61	11,407.7	-457.2	-7,865.8	7,876.0	0.00	0.00	0.00
18,250.0	90.64	269.61	11,407.1	-457.6	-7,915.8	7,926.0	0.00	0.00	0.00
18,300.0	90.64	269.61	11,406.6	-457.9	-7,965.8	7,976.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Lox 18/14 B3PM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3664.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3664.0usft (Original Well Elev)
Site:	Lox 18/14 B3PM Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FSL & 100' FWL (Sec 14)		
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)	
18,350.0	90.64	269.61	11,406.0	-458.3	-8,015.8	8,026.0	0.00	0.00	0.00	
18,400.0	90.64	269.61	11,405.5	-458.6	-8,065.8	8,076.0	0.00	0.00	0.00	
18,450.0	90.64	269.61	11,404.9	-458.9	-8,115.8	8,126.0	0.00	0.00	0.00	
18,479.9	90.64	269.61	11,404.6	-459.1	-8,145.7	8,155.8	0.00	0.00	0.00	
PPP3: 1005' FSL & 1320' FEL (Sec 13)										
18,500.0	90.64	269.61	11,404.4	-459.3	-8,165.8	8,175.9	0.00	0.00	0.00	
18,550.0	90.64	269.61	11,403.8	-459.6	-8,215.8	8,225.9	0.00	0.00	0.00	
18,600.0	90.64	269.61	11,403.2	-460.0	-8,265.8	8,275.9	0.00	0.00	0.00	
18,650.0	90.64	269.61	11,402.7	-460.3	-8,315.8	8,325.9	0.00	0.00	0.00	
18,700.0	90.64	269.61	11,402.1	-460.7	-8,365.8	8,375.9	0.00	0.00	0.00	
18,750.0	90.64	269.61	11,401.6	-461.0	-8,415.8	8,425.9	0.00	0.00	0.00	
18,800.0	90.64	269.61	11,401.0	-461.3	-8,465.8	8,475.8	0.00	0.00	0.00	
18,850.0	90.64	269.61	11,400.5	-461.7	-8,515.8	8,525.8	0.00	0.00	0.00	
18,900.0	90.64	269.61	11,399.9	-462.0	-8,565.8	8,575.8	0.00	0.00	0.00	
18,950.0	90.64	269.61	11,399.3	-462.4	-8,615.8	8,625.8	0.00	0.00	0.00	
19,000.0	90.64	269.61	11,398.8	-462.7	-8,665.8	8,675.8	0.00	0.00	0.00	
19,050.0	90.64	269.61	11,398.2	-463.1	-8,715.8	8,725.8	0.00	0.00	0.00	
19,100.0	90.64	269.61	11,397.7	-463.4	-8,765.8	8,775.7	0.00	0.00	0.00	
19,150.0	90.64	269.61	11,397.1	-463.7	-8,815.7	8,825.7	0.00	0.00	0.00	
19,200.0	90.64	269.61	11,396.6	-464.1	-8,865.7	8,875.7	0.00	0.00	0.00	
19,250.0	90.64	269.61	11,396.0	-464.4	-8,915.7	8,925.7	0.00	0.00	0.00	
19,300.0	90.64	269.61	11,395.5	-464.8	-8,965.7	8,975.7	0.00	0.00	0.00	
19,350.0	90.64	269.61	11,394.9	-465.1	-9,015.7	9,025.7	0.00	0.00	0.00	
19,400.0	90.64	269.61	11,394.3	-465.5	-9,065.7	9,075.6	0.00	0.00	0.00	
19,450.0	90.64	269.61	11,393.8	-465.8	-9,115.7	9,125.6	0.00	0.00	0.00	
19,500.0	90.64	269.61	11,393.2	-466.2	-9,165.7	9,175.6	0.00	0.00	0.00	
19,550.0	90.64	269.61	11,392.7	-466.5	-9,215.7	9,225.6	0.00	0.00	0.00	
19,600.0	90.64	269.61	11,392.1	-466.8	-9,265.7	9,275.6	0.00	0.00	0.00	
19,650.0	90.64	269.61	11,391.6	-467.2	-9,315.7	9,325.6	0.00	0.00	0.00	
19,700.0	90.64	269.61	11,391.0	-467.5	-9,365.7	9,375.5	0.00	0.00	0.00	
19,750.0	90.64	269.61	11,390.4	-467.9	-9,415.7	9,425.5	0.00	0.00	0.00	
19,800.0	90.64	269.61	11,389.9	-468.2	-9,465.7	9,475.5	0.00	0.00	0.00	
PPP4: 1003' FSL & 2641' FWL (Sec 13)										
19,850.0	90.64	269.61	11,389.3	-468.6	-9,515.7	9,525.5	0.00	0.00	0.00	
19,900.0	90.64	269.61	11,388.8	-468.9	-9,565.7	9,575.5	0.00	0.00	0.00	
19,950.0	90.64	269.61	11,388.2	-469.2	-9,615.7	9,625.5	0.00	0.00	0.00	
20,000.0	90.64	269.61	11,387.7	-469.6	-9,665.7	9,675.4	0.00	0.00	0.00	
20,050.0	90.64	269.61	11,387.1	-469.9	-9,715.7	9,725.4	0.00	0.00	0.00	
20,100.0	90.64	269.61	11,386.6	-470.3	-9,765.7	9,775.4	0.00	0.00	0.00	
20,150.0	90.64	269.61	11,386.0	-470.6	-9,815.7	9,825.4	0.00	0.00	0.00	
20,200.0	90.64	269.61	11,385.4	-471.0	-9,865.7	9,875.4	0.00	0.00	0.00	
20,250.0	90.64	269.61	11,384.9	-471.3	-9,915.7	9,925.4	0.00	0.00	0.00	
20,300.0	90.64	269.61	11,384.3	-471.7	-9,965.7	9,975.3	0.00	0.00	0.00	
20,350.0	90.64	269.61	11,383.8	-472.0	-10,015.6	10,025.3	0.00	0.00	0.00	
20,400.0	90.64	269.61	11,383.2	-472.3	-10,065.6	10,075.3	0.00	0.00	0.00	
20,450.0	90.64	269.61	11,382.7	-472.7	-10,115.6	10,125.3	0.00	0.00	0.00	
20,500.0	90.64	269.61	11,382.1	-473.0	-10,165.6	10,175.3	0.00	0.00	0.00	
20,550.0	90.64	269.61	11,381.6	-473.4	-10,215.6	10,225.3	0.00	0.00	0.00	
20,600.0	90.64	269.61	11,381.0	-473.7	-10,265.6	10,275.2	0.00	0.00	0.00	
20,650.0	90.64	269.61	11,380.4	-474.1	-10,315.6	10,325.2	0.00	0.00	0.00	
20,700.0	90.64	269.61	11,379.9	-474.4	-10,365.6	10,375.2	0.00	0.00	0.00	
20,750.0	90.64	269.61	11,379.3	-474.7	-10,415.6	10,425.2	0.00	0.00	0.00	
20,800.0	90.64	269.61	11,378.8	-475.1	-10,465.6	10,475.2	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Lox 18/14 B3PM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3664.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3664.0usft (Original Well Elev)
Site:	Lox 18/14 B3PM Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FSL & 100' FWL (Sec 14)		
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)	
20,850.0	90.64	269.61	11,378.2	-475.4	-10,515.6	10,525.2	0.00	0.00	0.00	
20,900.0	90.64	269.61	11,377.7	-475.8	-10,565.6	10,575.1	0.00	0.00	0.00	
20,950.0	90.64	269.61	11,377.1	-476.1	-10,615.6	10,625.1	0.00	0.00	0.00	
21,000.0	90.64	269.61	11,376.5	-476.5	-10,665.6	10,675.1	0.00	0.00	0.00	
21,050.0	90.64	269.61	11,376.0	-476.8	-10,715.6	10,725.1	0.00	0.00	0.00	
21,100.0	90.64	269.61	11,375.4	-477.1	-10,765.6	10,775.1	0.00	0.00	0.00	
21,150.0	90.64	269.61	11,374.9	-477.5	-10,815.6	10,825.1	0.00	0.00	0.00	
21,200.0	90.64	269.61	11,374.3	-477.8	-10,865.6	10,875.0	0.00	0.00	0.00	
21,250.0	90.64	269.61	11,373.8	-478.2	-10,915.6	10,925.0	0.00	0.00	0.00	
21,300.0	90.64	269.61	11,373.2	-478.5	-10,965.6	10,975.0	0.00	0.00	0.00	
21,350.0	90.64	269.61	11,372.7	-478.9	-11,015.6	11,025.0	0.00	0.00	0.00	
21,400.0	90.64	269.61	11,372.1	-479.2	-11,065.6	11,075.0	0.00	0.00	0.00	
21,450.0	90.64	269.61	11,371.5	-479.6	-11,115.6	11,125.0	0.00	0.00	0.00	
21,500.0	90.64	269.61	11,371.0	-479.9	-11,165.5	11,174.9	0.00	0.00	0.00	
21,550.0	90.64	269.61	11,370.4	-480.2	-11,215.5	11,224.9	0.00	0.00	0.00	
21,600.0	90.64	269.61	11,369.9	-480.6	-11,265.5	11,274.9	0.00	0.00	0.00	
21,650.0	90.64	269.61	11,369.3	-480.9	-11,315.5	11,324.9	0.00	0.00	0.00	
21,700.0	90.64	269.61	11,368.8	-481.3	-11,365.5	11,374.9	0.00	0.00	0.00	
21,750.0	90.64	269.61	11,368.2	-481.6	-11,415.5	11,424.9	0.00	0.00	0.00	
21,800.0	90.64	269.61	11,367.7	-482.0	-11,465.5	11,474.8	0.00	0.00	0.00	
21,850.0	90.64	269.61	11,367.1	-482.3	-11,515.5	11,524.8	0.00	0.00	0.00	
21,900.0	90.64	269.61	11,366.5	-482.6	-11,565.5	11,574.8	0.00	0.00	0.00	
21,950.0	90.64	269.61	11,366.0	-483.0	-11,615.5	11,624.8	0.00	0.00	0.00	
22,000.0	90.64	269.61	11,365.4	-483.3	-11,665.5	11,674.8	0.00	0.00	0.00	
22,050.0	90.64	269.61	11,364.9	-483.7	-11,715.5	11,724.8	0.00	0.00	0.00	
22,100.0	90.64	269.61	11,364.3	-484.0	-11,765.5	11,774.7	0.00	0.00	0.00	
22,150.0	90.64	269.61	11,363.8	-484.4	-11,815.5	11,824.7	0.00	0.00	0.00	
22,200.0	90.64	269.61	11,363.2	-484.7	-11,865.5	11,874.7	0.00	0.00	0.00	
22,250.0	90.64	269.61	11,362.6	-485.0	-11,915.5	11,924.7	0.00	0.00	0.00	
22,300.0	90.64	269.61	11,362.1	-485.4	-11,965.5	11,974.7	0.00	0.00	0.00	
22,350.0	90.64	269.61	11,361.5	-485.7	-12,015.5	12,024.7	0.00	0.00	0.00	
22,400.0	90.64	269.61	11,361.0	-486.1	-12,065.5	12,074.6	0.00	0.00	0.00	
22,450.0	90.64	269.61	11,360.4	-486.4	-12,115.5	12,124.6	0.00	0.00	0.00	
22,500.0	90.64	269.61	11,359.9	-486.8	-12,165.5	12,174.6	0.00	0.00	0.00	
22,550.0	90.64	269.61	11,359.3	-487.1	-12,215.5	12,224.6	0.00	0.00	0.00	
22,600.0	90.64	269.61	11,358.8	-487.5	-12,265.5	12,274.6	0.00	0.00	0.00	
22,650.0	90.64	269.61	11,358.2	-487.8	-12,315.5	12,324.6	0.00	0.00	0.00	
22,700.0	90.64	269.61	11,357.6	-488.1	-12,365.4	12,374.5	0.00	0.00	0.00	
22,750.0	90.64	269.61	11,357.1	-488.5	-12,415.4	12,424.5	0.00	0.00	0.00	
22,800.0	90.64	269.61	11,356.5	-488.8	-12,465.4	12,474.5	0.00	0.00	0.00	
22,850.0	90.64	269.61	11,356.0	-489.2	-12,515.4	12,524.5	0.00	0.00	0.00	
22,900.0	90.64	269.61	11,355.4	-489.5	-12,565.4	12,574.5	0.00	0.00	0.00	
22,950.0	90.64	269.61	11,354.9	-489.9	-12,615.4	12,624.5	0.00	0.00	0.00	
23,000.0	90.64	269.61	11,354.3	-490.2	-12,665.4	12,674.4	0.00	0.00	0.00	
23,050.0	90.64	269.61	11,353.8	-490.5	-12,715.4	12,724.4	0.00	0.00	0.00	
23,100.0	90.64	269.61	11,353.2	-490.9	-12,765.4	12,774.4	0.00	0.00	0.00	
23,150.0	90.64	269.61	11,352.6	-491.2	-12,815.4	12,824.4	0.00	0.00	0.00	
23,200.0	90.64	269.61	11,352.1	-491.6	-12,865.4	12,874.4	0.00	0.00	0.00	
23,250.0	90.64	269.61	11,351.5	-491.9	-12,915.4	12,924.4	0.00	0.00	0.00	
23,300.0	90.64	269.61	11,351.0	-492.3	-12,965.4	12,974.3	0.00	0.00	0.00	
23,350.0	90.64	269.61	11,350.4	-492.6	-13,015.4	13,024.3	0.00	0.00	0.00	
23,400.0	90.64	269.61	11,349.9	-492.9	-13,065.4	13,074.3	0.00	0.00	0.00	
23,450.0	90.64	269.61	11,349.3	-493.3	-13,115.4	13,124.3	0.00	0.00	0.00	
23,500.0	90.64	269.61	11,348.7	-493.6	-13,165.4	13,174.3	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Lox 18/14 B3PM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3664.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3664.0usft (Original Well Elev)
Site:	Lox 18/14 B3PM Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FSL & 100' FWL (Sec 14)		
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)	
23,550.0	90.64	269.61	11,348.2	-494.0	-13,215.4	13,224.3	0.00	0.00	0.00	
23,600.0	90.64	269.61	11,347.6	-494.3	-13,265.4	13,274.2	0.00	0.00	0.00	
23,650.0	90.64	269.61	11,347.1	-494.7	-13,315.4	13,324.2	0.00	0.00	0.00	
23,700.0	90.64	269.61	11,346.5	-495.0	-13,365.4	13,374.2	0.00	0.00	0.00	
23,750.0	90.64	269.61	11,346.0	-495.4	-13,415.4	13,424.2	0.00	0.00	0.00	
23,800.0	90.64	269.61	11,345.4	-495.7	-13,465.4	13,474.2	0.00	0.00	0.00	
23,850.0	90.64	269.61	11,344.9	-496.0	-13,515.3	13,524.2	0.00	0.00	0.00	
23,900.0	90.64	269.61	11,344.3	-496.4	-13,565.3	13,574.1	0.00	0.00	0.00	
23,950.0	90.64	269.61	11,343.7	-496.7	-13,615.3	13,624.1	0.00	0.00	0.00	
24,000.0	90.64	269.61	11,343.2	-497.1	-13,665.3	13,674.1	0.00	0.00	0.00	
24,050.0	90.64	269.61	11,342.6	-497.4	-13,715.3	13,724.1	0.00	0.00	0.00	
24,100.0	90.64	269.61	11,342.1	-497.8	-13,765.3	13,774.1	0.00	0.00	0.00	
24,150.0	90.64	269.61	11,341.5	-498.1	-13,815.3	13,824.1	0.00	0.00	0.00	
24,200.0	90.64	269.61	11,341.0	-498.4	-13,865.3	13,874.0	0.00	0.00	0.00	
24,250.0	90.64	269.61	11,340.4	-498.8	-13,915.3	13,924.0	0.00	0.00	0.00	
24,300.0	90.64	269.61	11,339.9	-499.1	-13,965.3	13,974.0	0.00	0.00	0.00	
24,350.0	90.64	269.61	11,339.3	-499.5	-14,015.3	14,024.0	0.00	0.00	0.00	
24,400.0	90.64	269.61	11,338.7	-499.8	-14,065.3	14,074.0	0.00	0.00	0.00	
24,450.0	90.64	269.61	11,338.2	-500.2	-14,115.3	14,124.0	0.00	0.00	0.00	
24,500.0	90.64	269.61	11,337.6	-500.5	-14,165.3	14,173.9	0.00	0.00	0.00	
24,550.0	90.64	269.61	11,337.1	-500.9	-14,215.3	14,223.9	0.00	0.00	0.00	
24,600.0	90.64	269.61	11,336.5	-501.2	-14,265.3	14,273.9	0.00	0.00	0.00	
24,650.0	90.64	269.61	11,336.0	-501.5	-14,315.3	14,323.9	0.00	0.00	0.00	
24,700.0	90.64	269.61	11,335.4	-501.9	-14,365.3	14,373.9	0.00	0.00	0.00	
24,750.0	90.64	269.61	11,334.8	-502.2	-14,415.3	14,423.9	0.00	0.00	0.00	
24,800.0	90.64	269.61	11,334.3	-502.6	-14,465.3	14,473.8	0.00	0.00	0.00	
24,850.0	90.64	269.61	11,333.7	-502.9	-14,515.3	14,523.8	0.00	0.00	0.00	
24,900.0	90.64	269.61	11,333.2	-503.3	-14,565.3	14,573.8	0.00	0.00	0.00	
24,950.0	90.64	269.61	11,332.6	-503.6	-14,615.3	14,623.8	0.00	0.00	0.00	
25,000.0	90.64	269.61	11,332.1	-503.9	-14,665.2	14,673.8	0.00	0.00	0.00	
25,050.0	90.64	269.61	11,331.5	-504.3	-14,715.2	14,723.8	0.00	0.00	0.00	
25,100.0	90.64	269.61	11,331.0	-504.6	-14,765.2	14,773.7	0.00	0.00	0.00	
25,150.0	90.64	269.61	11,330.4	-505.0	-14,815.2	14,823.7	0.00	0.00	0.00	
25,200.0	90.64	269.61	11,329.8	-505.3	-14,865.2	14,873.7	0.00	0.00	0.00	
25,250.0	90.64	269.61	11,329.3	-505.7	-14,915.2	14,923.7	0.00	0.00	0.00	
25,300.0	90.64	269.61	11,328.7	-506.0	-14,965.2	14,973.7	0.00	0.00	0.00	
25,350.0	90.64	269.61	11,328.2	-506.3	-15,015.2	15,023.7	0.00	0.00	0.00	
25,400.0	90.64	269.61	11,327.6	-506.7	-15,065.2	15,073.6	0.00	0.00	0.00	
25,450.0	90.64	269.61	11,327.1	-507.0	-15,115.2	15,123.6	0.00	0.00	0.00	
25,500.0	90.64	269.61	11,326.5	-507.4	-15,165.2	15,173.6	0.00	0.00	0.00	
25,550.0	90.64	269.61	11,326.0	-507.7	-15,215.2	15,223.6	0.00	0.00	0.00	
25,600.0	90.64	269.61	11,325.4	-508.1	-15,265.2	15,273.6	0.00	0.00	0.00	
25,650.0	90.64	269.61	11,324.8	-508.4	-15,315.2	15,323.6	0.00	0.00	0.00	
25,700.0	90.64	269.61	11,324.3	-508.8	-15,365.2	15,373.5	0.00	0.00	0.00	
25,750.0	90.64	269.61	11,323.7	-509.1	-15,415.2	15,423.5	0.00	0.00	0.00	
25,800.0	90.64	269.61	11,323.2	-509.4	-15,465.2	15,473.5	0.00	0.00	0.00	
25,850.0	90.64	269.61	11,322.6	-509.8	-15,515.2	15,523.5	0.00	0.00	0.00	
25,900.0	90.64	269.61	11,322.1	-510.1	-15,565.2	15,573.5	0.00	0.00	0.00	
25,950.0	90.64	269.61	11,321.5	-510.5	-15,615.2	15,623.5	0.00	0.00	0.00	
26,000.0	90.64	269.61	11,320.9	-510.8	-15,665.2	15,673.4	0.00	0.00	0.00	
26,050.0	90.64	269.61	11,320.4	-511.2	-15,715.2	15,723.4	0.00	0.00	0.00	
26,100.0	90.64	269.61	11,319.8	-511.5	-15,765.2	15,773.4	0.00	0.00	0.00	
26,150.0	90.64	269.61	11,319.3	-511.8	-15,815.2	15,823.4	0.00	0.00	0.00	
26,200.0	90.64	269.61	11,318.7	-512.2	-15,865.1	15,873.4	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Lox 18/14 B3PM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3664.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3664.0usft (Original Well Elev)
Site:	Lox 18/14 B3PM Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FSL & 100' FWL (Sec 14)		
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)	
26,250.0	90.64	269.61	11,318.2	-512.5	-15,915.1	15,923.4	0.00	0.00	0.00	
26,300.0	90.64	269.61	11,317.6	-512.9	-15,965.1	15,973.3	0.00	0.00	0.00	
26,350.0	90.64	269.61	11,317.1	-513.2	-16,015.1	16,023.3	0.00	0.00	0.00	
26,400.0	90.64	269.61	11,316.5	-513.6	-16,065.1	16,073.3	0.00	0.00	0.00	
26,450.0	90.64	269.61	11,315.9	-513.9	-16,115.1	16,123.3	0.00	0.00	0.00	
26,500.0	90.64	269.61	11,315.4	-514.2	-16,165.1	16,173.3	0.00	0.00	0.00	
26,550.0	90.64	269.61	11,314.8	-514.6	-16,215.1	16,223.3	0.00	0.00	0.00	
26,600.0	90.64	269.61	11,314.3	-514.9	-16,265.1	16,273.2	0.00	0.00	0.00	
26,650.0	90.64	269.61	11,313.7	-515.3	-16,315.1	16,323.2	0.00	0.00	0.00	
26,700.0	90.64	269.61	11,313.2	-515.6	-16,365.1	16,373.2	0.00	0.00	0.00	
26,750.0	90.64	269.61	11,312.6	-516.0	-16,415.1	16,423.2	0.00	0.00	0.00	
26,800.0	90.64	269.61	11,312.0	-516.3	-16,465.1	16,473.2	0.00	0.00	0.00	
26,850.0	90.64	269.61	11,311.5	-516.7	-16,515.1	16,523.2	0.00	0.00	0.00	
26,900.0	90.64	269.61	11,310.9	-517.0	-16,565.1	16,573.1	0.00	0.00	0.00	
26,950.0	90.64	269.61	11,310.4	-517.3	-16,615.1	16,623.1	0.00	0.00	0.00	
27,000.0	90.64	269.61	11,309.8	-517.7	-16,665.1	16,673.1	0.00	0.00	0.00	
27,050.0	90.64	269.61	11,309.3	-518.0	-16,715.1	16,723.1	0.00	0.00	0.00	
27,100.0	90.64	269.61	11,308.7	-518.4	-16,765.1	16,773.1	0.00	0.00	0.00	
27,150.0	90.64	269.61	11,308.2	-518.7	-16,815.1	16,823.1	0.00	0.00	0.00	
27,200.0	90.64	269.61	11,307.6	-519.1	-16,865.1	16,873.0	0.00	0.00	0.00	
27,250.0	90.64	269.61	11,307.0	-519.4	-16,915.1	16,923.0	0.00	0.00	0.00	
27,300.0	90.64	269.61	11,306.5	-519.7	-16,965.1	16,973.0	0.00	0.00	0.00	
27,350.0	90.64	269.61	11,305.9	-520.1	-17,015.0	17,023.0	0.00	0.00	0.00	
27,400.0	90.64	269.61	11,305.4	-520.4	-17,065.0	17,073.0	0.00	0.00	0.00	
27,450.0	90.64	269.61	11,304.8	-520.8	-17,115.0	17,123.0	0.00	0.00	0.00	
27,500.0	90.64	269.61	11,304.3	-521.1	-17,165.0	17,172.9	0.00	0.00	0.00	
27,550.0	90.64	269.61	11,303.7	-521.5	-17,215.0	17,222.9	0.00	0.00	0.00	
27,600.0	90.64	269.61	11,303.2	-521.8	-17,265.0	17,272.9	0.00	0.00	0.00	
27,613.8	90.64	269.61	11,303.0	-521.9	-17,278.8	17,286.7	0.00	0.00	0.00	
BHL: 990' FSL & 100' FWL (Sec 14)										

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Lox 18/14 B3PM Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3664.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3664.0usft (Original Well Elev)
Site:	Lox 18/14 B3PM Fed Com #1H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FSL & 100' FWL (Sec 14)		
Design:	Design #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
SHL: 1390' FSL & 1440' Fv - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	537,201.30	736,408.10	32.4752398	-103.7007701
KOP: 990' FSL & 473' Fv - plan hits target center - Point	0.00	0.00	10,905.0	-409.8	-964.2	536,791.50	735,443.90	32.4741291	-103.7039044
BHL: 990' FSL & 100' Fv - plan hits target center - Point	0.00	0.00	11,303.0	-521.9	-17,278.8	536,679.40	719,129.30	32.4740744	-103.7568073
PPP4: 1003' FSL & 264' Fv - plan hits target center - Point	0.00	0.00	11,389.9	-468.2	-9,465.7	536,733.09	726,942.40	32.4741034	-103.7314719
PPP3: 1005' FSL & 132' Fv - plan hits target center - Point	0.00	0.00	11,404.6	-459.1	-8,145.7	536,742.16	728,262.40	32.4741078	-103.7271916
PPP2: 1006' FSL & 0' Fv - plan hits target center - Point	0.00	0.00	11,419.3	-450.1	-6,825.7	536,751.23	729,582.40	32.4741120	-103.7229113
FTP/LP: 990' FSL & 100' Fv - plan hits target center - Point	0.00	0.01	11,478.0	-413.7	-1,537.1	536,787.57	734,871.00	32.4741276	-103.7057621

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
WELL NAME & NO.:	LOX 18/14 B3PM FED COM 1H
APD ID:	10400084727
LOCATION:	Section 17, T21S, R32E. NMP.
COUNTY:	Lea County, New Mexico ▼

COA

H ₂ S	☐ No ☒ Yes			
Potash / WIPP	☐ None	☐ Secretary	☒ R-111-Q	☒ Open Annulus ☐ WIPP
Cave / Karst	3-String Design: Open Production Casing Annulus			
Wellhead	☒ Low	☐ Medium	☐ High	☐ Critical
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	☐ Casing Clearance	☐ Pilot Hole	☒ Break Testing
	☐ Four-String	☒ Offline Cementing	☒ Fluid-Filled	

A. HYDROGEN SULFIDE

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

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

B. CASING

Primary Casing Program

1. The 13-3/8 inch surface casing shall be set at approximately **1,100** feet (a minimum of 70 ft. into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **If salt is encountered, set the casing at least 25 ft. above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface

- log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **9-5/8 in.** intermediate casing shall be set in a competent bed at approximately **4,145 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 **potash**.

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

Note: Intermediate casing must be kept fluid-filled to meet the BLM's minimum requirement for collapse design SF.

3. Operator has proposed to set **7-5/8 inch** production casing at approximately **10,970 ft.** (10,905 ft. TVD). The minimum required fill of cement behind the **7-5/8 inch** production casing is:
- Operator has proposed to cement the production casing in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage within 180 days after well completion in accordance with the R-111-Q guidelines.
 - a. First stage: Operator will cement production casing with intent to bring cement to top of Brushy Canyon formation.
 - b. Second stage: Operator will perform bradenhead squeeze within 180 days after completion per R-111-Q requirements. Cement shall be tie-back **at least 500 ft. into the 1st intermediate casing and below the Marker Bed 126**. If cement does not circulate, the appropriate BLM office shall be notified.
 - ❖ Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM.**
 - ❖ **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. If cement does not tie-back at least 500 ft. into the previous casing shoe, the appropriate BLM office shall be notified.

- ❖ A monitored open annulus will be incorporated during completion by leaving the 1st Intermediate Casing x Production Casing annulus un-cemented and monitored. Operator must follow all monitoring requirements listed within R-111-Q. Tieback shall be met within **180 days**.
 - ❖ **In the event of a casing failure during completion**, the operator must contact the BLM engineer at (575-706-2779) and inspection staff (575-393-3612 Lea County).
 - ❖ Pressure monitoring device and Pressure Safety Valves must be installed at surface on the open annulus for the life of the well.
4. The minimum required fill of cement behind the **5-1/2** inch production liner is:
- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Alternative Casing Program

1. The **13-3/8** inch surface casing shall be set at approximately **1,100** feet (a minimum of 70 ft. into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **If salt is encountered, set the casing at least 25 ft. above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **9-5/8 in.** intermediate casing shall be set in a competent bed at approximately **4,145 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 **potash**.

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

Note: Intermediate casing must be kept fluid-filled to meet the BLM's minimum requirement for collapse design SF.

3. Operator has proposed to set **7-5/8** inch production casing at approximately **11,870 ft.** (11,478 ft. TVD). The minimum required fill of cement behind the **7-5/8** inch production casing is:
 - Operator has proposed to cement the production casing in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage within 180 days after well completion in accordance with the R-111-Q guidelines.
 - a. First stage: Operator will cement production casing with intent to bring cement to top of Brushy Canyon formation.
 - b. Second stage: Operator will perform bradenhead squeeze within 180 days after completion per R-111-Q requirements. Cement shall be tie-back **at least 500 ft. into the 1st intermediate casing and below the Marker Bed 126.** If cement does not circulate, the appropriate BLM office shall be notified.
 - ❖ Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM.**
 - ❖ Operator must verify top of cement per R-111-Q requirements. Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. If cement does not tie-back at least 500 ft. into the previous casing shoe, the appropriate BLM office shall be notified.
 - ❖ A monitored open annulus will be incorporated during completion by leaving the 1st Intermediate Casing x Production Casing annulus un-cemented and monitored. Operator must follow **all** monitoring requirements listed within R-111-Q. Tieback shall be met within **180 days.**
 - ❖ **In the event of a casing failure during completion,** the operator must contact the BLM engineer at (575-706-2779) and inspection staff (575-393-3612 Lea County).
 - ❖ Pressure monitoring device and Pressure Safety Valves must be installed at surface on the open annulus for the life of the well.

Note: Production casing must be kept fluid-filled to meet the BLM's minimum requirement for collapse design SF.

4. The minimum required fill of cement behind the **5-1/2** inch production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Offline Cementing

Operator has been (**Approved**) to pump the proposed cement program offline in the **Surface and intermediate(s) intervals.** Offline cementing should commence within 24 hours of landing the

casing for the interval. Notify the BLM 4hrs prior to the commencement of any offline cementing procedure at **Lea County: 575-689-5981**.

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. The BOP and 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

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

D. SPECIAL REQUIREMENT (S)**Communitization Agreement**

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

GENERAL REQUIREMENTS

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

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

Contact Lea County Petroleum Engineering Inspection Staff:

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the 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 05/27/2025

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

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

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

3. Hydrogen Sulfide Safety Equipment and Systems

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

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

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

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

3. Hydrogen Sulfide Protection and Monitoring Equipment

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

4. Visual Warning Systems

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

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

4. **Mud Program**

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

5. **Metallurgy**

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

6. **Communications**

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

7. **Well Testing**

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

8. **Emergency Phone Numbers**

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

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

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

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** LOX 18/14 B3PM FED COM**Well Number:** 1H**Section 7 - Methods for Handling****Waste type:** DRILLING**Waste content description:** Drill Cuttings**Amount of waste:** 3240 barrels**Waste disposal frequency :** One Time Only**Safe containment description:** Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.)**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE**Disposal type description:****Disposal location description:** NMOCD approved 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, NM**Waste type:** SEWAGE**Waste content description:** Human waste & Grey water**Amount of waste:** 1500 gallons**Waste disposal frequency :** Weekly**Safe containment description:** 2000 gallon plastic container**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE**Disposal type description:****Disposal location description:** City of Carlsbad Water Treatment Facility**Reserve Pit****Reserve Pit being used?** NO

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** LOX 18/14 B3PM FED COM**Well Number:** 1H**Temporary disposal of produced water into reserve pit?** NO**Reserve pit length (ft.)****Reserve pit width (ft.)****Reserve pit depth (ft.)****Reserve pit volume (cu. yd.)****Is at least 50% of the reserve pit in cut?****Reserve pit liner****Reserve pit liner specifications and installation description**

Cuttings Area

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

Section 8 - Ancillary

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

Section 9 - Well Site

Well Site Layout Diagram:

Lox18_14B3PMFedCom1H_WellSiteLayout2_20221021145924.pdf

Comments: None

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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 475160

ACKNOWLEDGMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 475160
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☐	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 475160

COMMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 475160
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Submitted as defining well for spacing unit.	8/21/2025

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Santa Fe, NM 87505

CONDITIONS

Action 475160

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 475160
	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.	6/16/2025
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	6/16/2025
jeffrey.harrison	Prior to production of this well a change to the well name/number is required to comply with the OCD well naming convention.	8/21/2025
jeffrey.harrison	This well is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the order.	8/21/2025
jeffrey.harrison	Designs must align to one of the six options mandated within R-111-Q. No alterations or modifications are permitted to any of the casing design options mandated within order R-111-Q. If you have any questions, please contact Justin.Wrinkle@emnrd.nm.gov.	8/21/2025
jeffrey.harrison	A minimum of 200' of cement tieback is required for the 5.5 inch liner.	8/21/2025
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.	8/21/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	8/21/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	8/21/2025
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	8/21/2025
jeffrey.harrison	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.	8/21/2025
jeffrey.harrison	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.	8/21/2025