

Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		5. Lease Serial No. NMNM94095 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. NMNM106306061/Cousin Eddy Unit 8. Lease Name and Well No. COUSIN EDDY FED UNIT 14H
2. Name of Operator MEWBOURNE OIL COMPANY		9. API Well No. 30-025-55052
3a. Address P O BOX 5270, HOBBS, NM 88241	3b. Phone No. (include area code) (575) 393-5905	10. Field and Pool, or Exploratory WVC22S31E13; Wolfcamp/WC22S31E13; WC-025-G-09-S213232A; UPR WOLF CAMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSE / 900 FSL / 1940 FEL / LAT 32.4739154 / LONG -103.694563 At proposed prod. zone NWNE / 100 FNL / 1210 FEL / LAT 32.5002112 / LONG -103.6921816		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		16. No of acres in lease 1280.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20 feet		17. Spacing Unit dedicated to this well FED: NM1693
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3639 feet	22. Approximate date work will start* 06/24/2024	23. Estimated duration 60 days
24. Attachments		

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

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

25. Signature (Electronic Submission) Title Regulatory	Name (Printed/Typed) BRADLEY BISHOP / Ph: (575) 393-5905	Date 04/03/2025
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959 Office Carlsbad Field Office	Date 06/17/2025

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

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



(Continued on page 2)

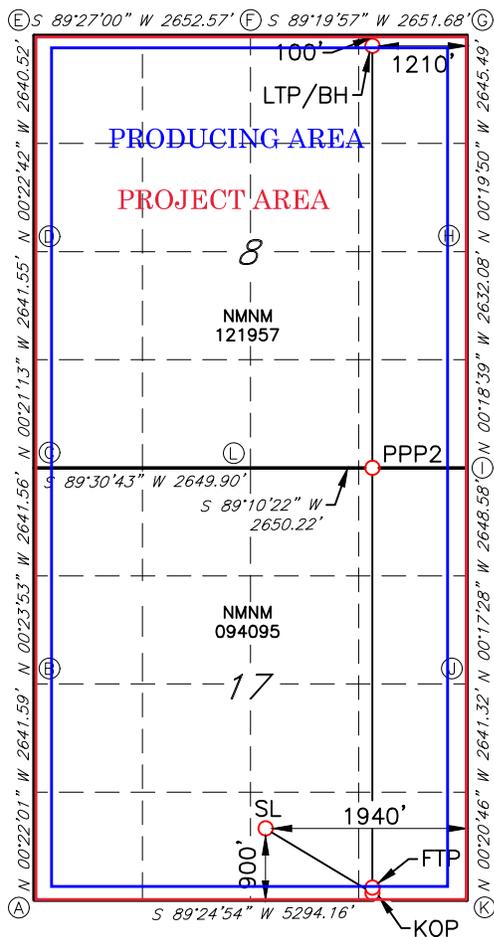
*(Instructions on page 2)

ACREAGE DEDICATION PLATS

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

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

COUSIN EDDY FED UNIT #14H



<u>GEODETTIC DATA</u>	<u>CORNER DATA</u>
NAD 83 GRID - NM EAST	NAD 83 GRID - NM EAST
<u>SURFACE LOCATION (SL)</u> N: 536730.9 - E: 738325.2	A: FOUND BRASS CAP "1916" N: 535796.9 - E: 734977.4
LAT: 32.4739154° N LONG: 103.6945630° W	B: FOUND BRASS CAP "1916" N: 538437.8 - E: 734960.4
<u>KICK OFF POINT (KOP)</u> N: 535848.6 - E: 739060.3	C: CALCULATED CORNER N: 541078.8 - E: 734942.1
LAT: 32.4714781° N LONG: 103.6921963° W	D: FOUND BRASS CAP "1916" N: 543719.7 - E: 734925.8
<u>FIRST TAKE POINT (FTP)</u> N: 535938.5 - E: 739059.8	E: FOUND BRASS CAP "1916" N: 546359.6 - E: 734908.4
LAT: 32.4717254° N LONG: 103.6921963° W	F: FOUND BRASS CAP "1916" N: 546385.0 - E: 737560.2
<u>PROPOSED PENETRATION POINT 2 (PPP2)</u> <u>0' FSL & 1210' FEL (SEC.8)</u> N: 541122.1 - E: 739030.9	G: FOUND BRASS CAP "1916" N: 546415.9 - E: 740211.2
LAT: 32.4859736° N LONG: 103.6921890° W	H: FOUND BRASS CAP "1916" N: 543771.0 - E: 740226.4
<u>LAST TAKE POINT/BOTTOM HOLE (LTP/BH)</u> N: 546301.9 - E: 739002.1	I: FOUND BRASS CAP "1916" N: 541139.6 - E: 740240.7
LAT: 32.5002112° N LONG: 103.6921816° W	J: FOUND BRASS CAP "1916" N: 538491.6 - E: 740254.1
	K: FOUND BRASS CAP "1916" N: 535850.9 - E: 740270.1
	L: FOUND BRASS CAP "1916" N: 541101.3 - E: 737591.3

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:** 2/25/25

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
COUSIN EDDY FED UNIT 14	14	O 17 21S 32E	900' FSL x 1940' FEL	1500	1500	3000
				Y1-400 Y2-300 Y3-200	Y1-400 Y2-300 Y3-200	Y1-800 Y2-600 Y3-400

IV. Central Delivery Point Name: COUSIN EDDY FED UNIT 14 [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
COUSIN EDDY FED UNIT 14		3/25/25	4/25/25	5/25/25	6/9/25	6/14/25

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:	2.125/25
Phone:	575-393-5905
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

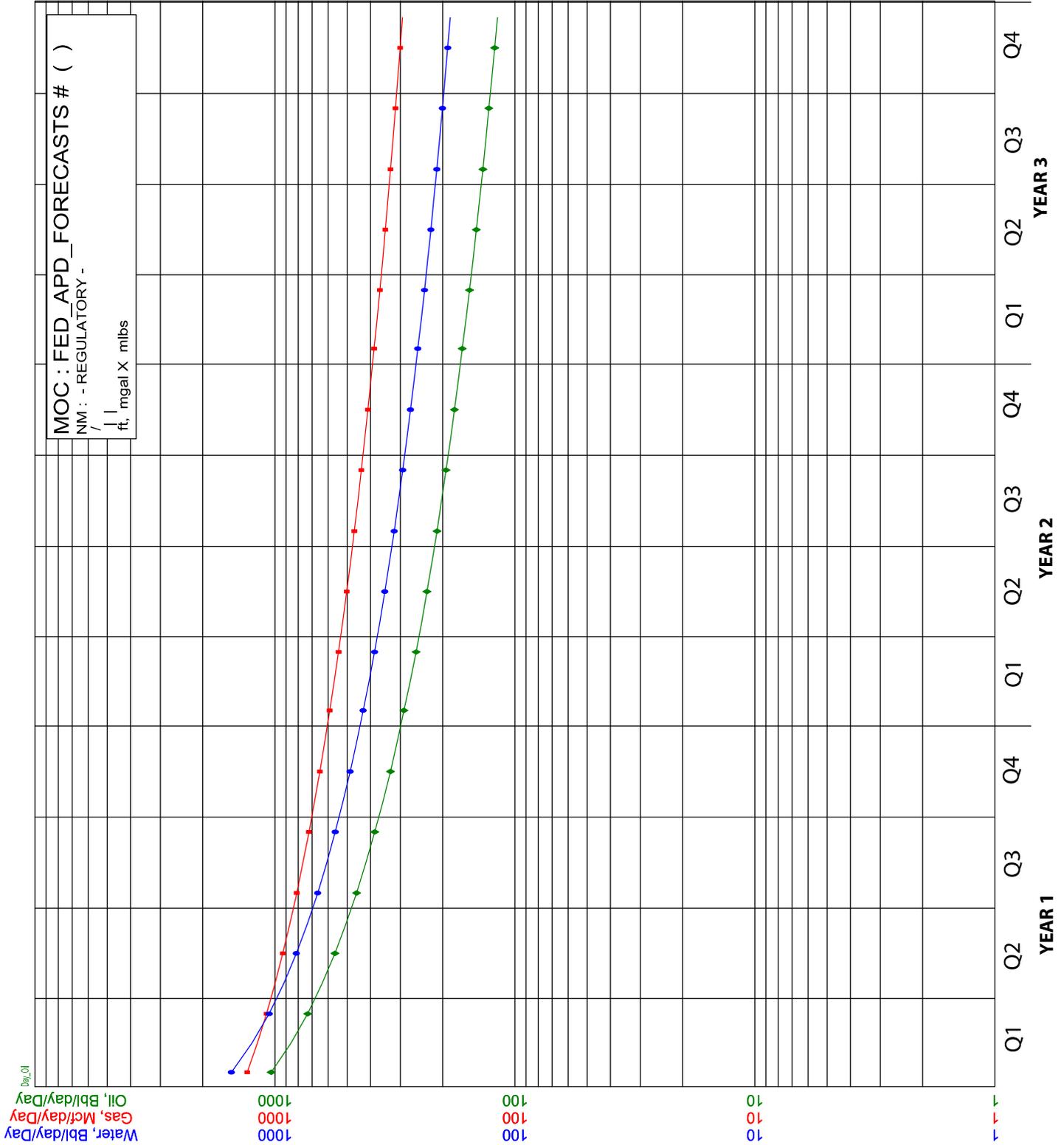
Mewbourne Oil Company

Natural Gas Management Plan – Attachment

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

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

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





Drilling Plan Data Report

06/17/2025

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

APD ID: 10400104281

Submission Date: 04/03/2025

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 14H

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
15854156	UNKNOWN	3585	27	27	OTHER : Topsoil	NONE	N
15854170	RUSTLER	2570	1015	1015	ANHYDRITE, DOLOMITE	USEABLE WATER	N
15854157	TOP SALT	2430	1155	1155	SALT	NONE	N
15854159	BASE OF SALT	-595	4180	4180	SALT	NONE	N
15854160	LAMAR	-945	4530	4530	DOLOMITE, LIMESTONE	NATURAL GAS, OIL	N
15854161	BELL CANYON	-990	4575	4575	SANDSTONE	NATURAL GAS, OIL	N
15854163	MANZANITA	-2113	5698	5698	LIMESTONE	NATURAL GAS, OIL	N
15854171	BRUSHY CANYON	-3115	6700	6700	SANDSTONE	NATURAL GAS, OIL	N
15854165	BONE SPRING	-4855	8440	8440	LIMESTONE	NATURAL GAS, OIL	N
15854166	BONE SPRING 1ST	-5905	9490	9490	SANDSTONE	NATURAL GAS, OIL	N
15854167	BONE SPRING 2ND	-6555	10140	10140	SANDSTONE	NATURAL GAS, OIL	Y
15854168	BONE SPRING 3RD	-7525	11110	11110	SANDSTONE	NATURAL GAS, OIL	Y
15854172	WOLFCAMP	-7930	11515	11515	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 14H

Pressure Rating (PSI): 5M

Rating Depth: 21952

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

Requesting Variance? YES

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

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

Choke Diagram Attachment:

5M_BOPE_Choke_Diagram_20250402105318.pdf

Flex_Line_Specs_API_16C_20250402105321.pdf

BOP Diagram Attachment:

5M_BOPE_Schematic_20250402105334.pdf

Multi_Bowl_WH_20250402105338.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	1090	0	1090	3639	2549	1090	H-40	48	ST&C	1.58	3.55	DRY	6.15	DRY	10.34
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3560	0	3560	3585	79	3560	J-55	36	LT&C	1.13	1.96	DRY	2.76	DRY	3.44
3	INTERMEDIATE	12.25	9.625	NEW	API	N	3560	4455	3560	4455	79	-816	895	J-55	40	LT&C	1.15	1.76	DRY	14.53	DRY	17.6
4	PRODUCTION	8.75	7.0	NEW	API	N	0	11171	0	11094	-8529	-7455	11171	P-110	26	LT&C	1.25	2	DRY	2.68	DRY	3.22
5	PRODUCTION	8.5	4.5	NEW	API	N	10971	21952	10898	11637	-7259	-7998	10981	OTHER - RYS 110	13.5	OTHER - CDC HTQ	1.64	1.91	BUOY	2.94	BUOY	2.9

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 14H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7in_26__P110_LTC_Csg_20250402104117.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_20250402102422.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_20250402102400.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 14H

Casing Attachments

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375in_48__H40_STC_Csg_20250402104143.pdf

Casing ID: 5 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Section 4 - Cement

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

SURFACE	Lead		0	899	590	2.12	12.5	1260	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		899	1090	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	3768	690	2.12	12.5	1470	25	Class C	Salt, Gel, Extender, LCM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 14H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		3768	4455	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		5455	7295	130	2.12	12.5	280	0	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		7295	1117 1	500	1.18	15.6	590	0	Class H	Retarder, Fluid Loss, Defoamer

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: Formation integrity test will be performed per 43 CFR Part 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3172.

Describe the mud monitoring system utilized: 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	1090	SPUD MUD	8.4	8.6							
1090	4455	SALT SATURATED	8.6	9.7							
4455	1207 1	WATER-BASED MUD	8.6	9.7							
1207 1	2195 2	OIL-BASED MUD	10	11.5							

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 14H

Section 6 - Test, Logging, Coring

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

No logs are planned based on well control or offset log information. Offset Well: Cousin Eddy Fed Unit #16H

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: 6977

Anticipated Surface Pressure: 4413

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_20250402090051.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COUSIN_EDDY_FED_UNIT_14H_Dir_Plan_20250402110133.pdf

COUSIN_EDDY_FED_UNIT_14H_Dir_Plot_20250402110138.pdf

Other proposed operations facets description:

Variance is requested to perform offline cementing according to the attached procedure. R-111Q Varaince:

Variance is requested to perform Open Hole

Cementing Variance per R-111Q Guidelines if well is in Potash.

Other proposed operations facets attachment:

COUSIN_EDDY_FED_UNIT_14H_NGMP_20250402110305.pdf

Cousin_Eddy_Fed_Unit_14H_Drlg_Program_20250509142648.pdf

Cousin_Eddy_Fed_Unit_14H_R_111Q_Csg_Cmt_Assumptions_20250509142647.pdf

Cousin_Eddy_Fed_Unit_14H_CsgAssumptions_20250509142648.pdf

Other Variance request(s)?: Y

Other Variance attachment:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

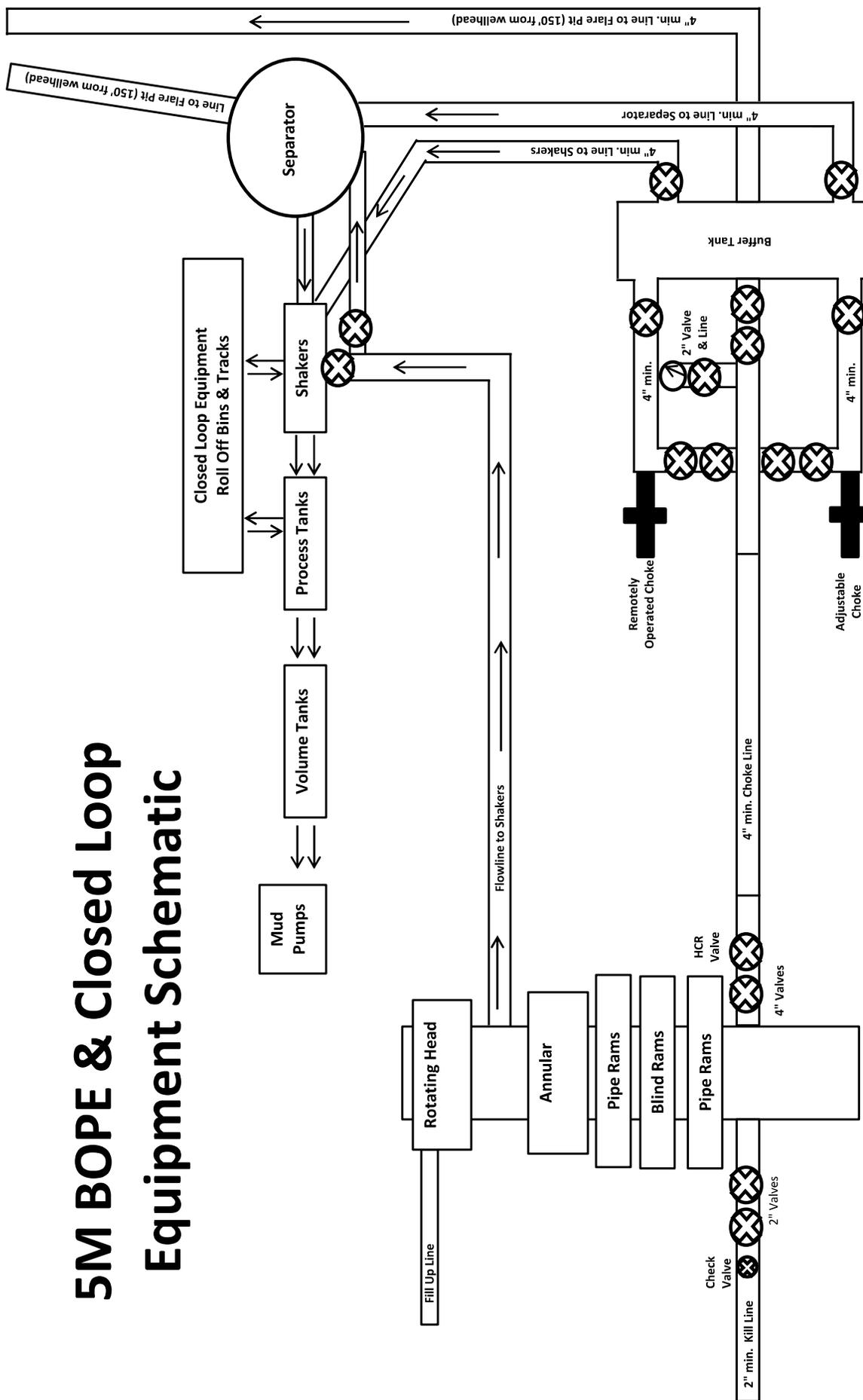
Well Number: 14H

MOC_Break_Testing_Variance_20250509142657.pdf

MOC_Offline_Cementing_Variance_20250509142657.pdf

CONFIDENTIAL

5M BOPE & Closed Loop Equipment Schematic



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

Drawing not to scale



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTYY/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

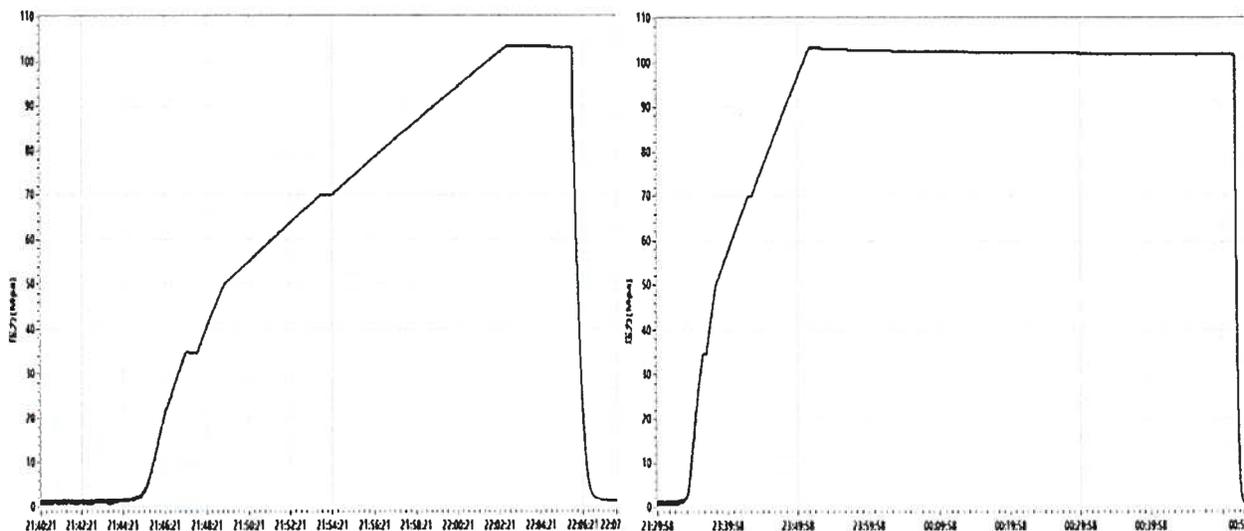
Rate of length change

Standard requirements	At working pressure ,the rate of length change should not more than $\pm 2\%$
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
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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°C ~+121°C	Standard	API Spec 16C 3 rd edition
Inspection Department	Q.C. Department	Inspection date	2023.08.26

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



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD
CERTIFICATE OF CONFORMANCE

No:LT230826016

Product Name: Choke And Kill Hose

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

Serial Number: 7660143~7660144

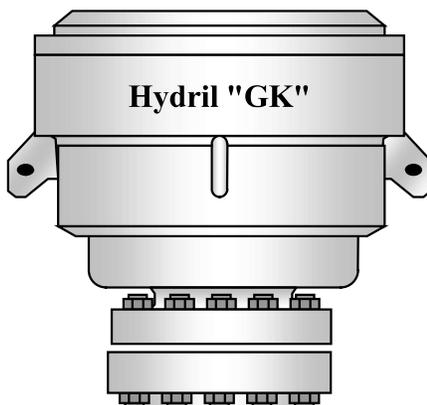
End Connections: 4-1/16"×10000psi Integral flange for sour gas service

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

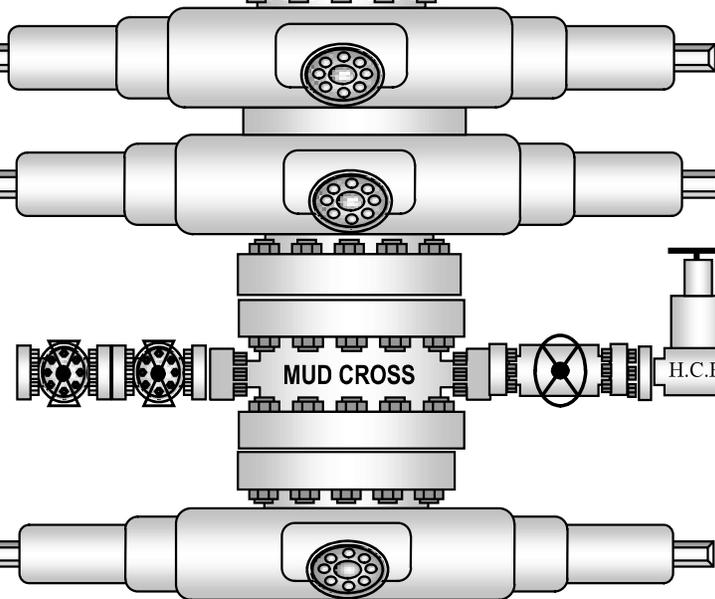
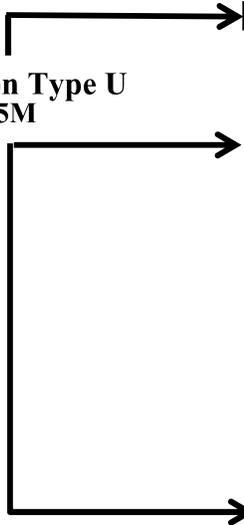
QC Manager: *Jiaolong Chen*

Date:Aug 26, 2023

Hydril "GK"
13 5/8" 5M



Cameron Type U
13 5/8" 5M



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

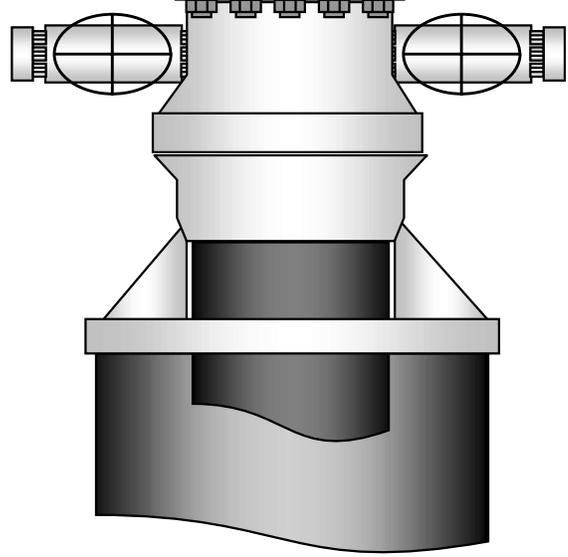
BLIND RAMS

7" RAMS

13 5/8" 5M

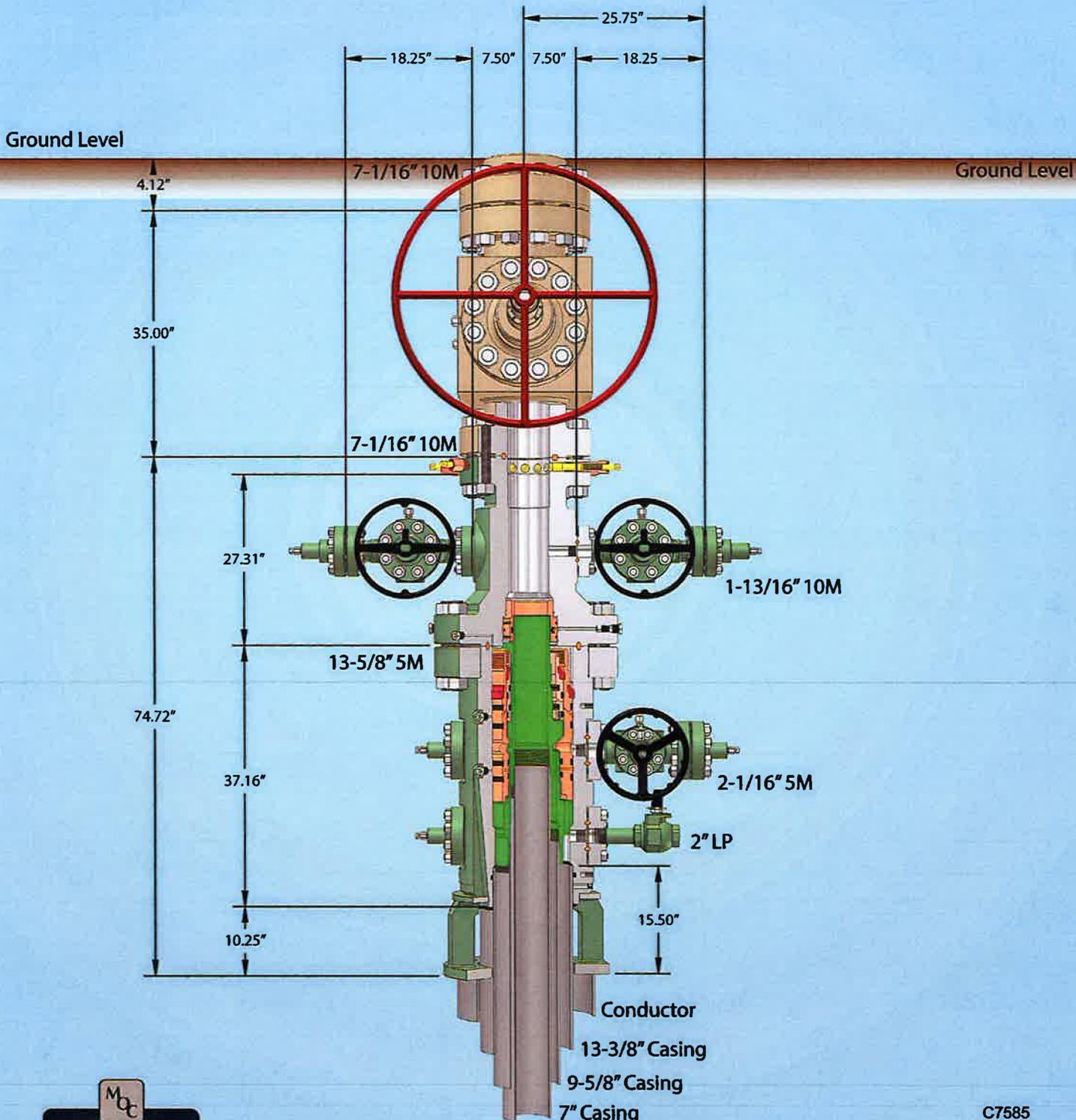
13 5/8" 5M

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 Height 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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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 LTC

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

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

Pipe Body Data

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

Connection Data

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

Notes

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

Couplings OD are shown according to current API 5CT 10th Edition.

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API STC

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

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

Pipe Body Data

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

Connection Data

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

Notes

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

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Mewbourne Oil Company, Cousin Eddy Fed Unit 14H
 Sec 17, T21S, R32E
 SHL: 900' FSL 1940' FEL (Sec 17)
 BHL: 100' FNL 1210' FEL (Sec 8)

Well Location GL: 3639'

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 900' FSL & 1940' FEL (Sec 17)	NMNM094095	SWSE	17	21S	32E	Lea	32.4739154	- 103.6945630	0'	0'
KOP	KOP: 10' FSL & 1210' FEL (Sec 17)	NMNM094095	SESE	17	21S	32E	Lea	32.4714781	- 103.6921963	11,094'	11,171'
FTP	FTP: 100' FSL & 1210' FEL (Sec 17)	NMNM094095	SESE	17	21S	32E	Lea	32.4717254	- 103.6921963	11,402'	11,496'
PPP2	PPP2: 0' FSL & 1210' FEL (Sec 8)	NMNM121957	SESE	8	21S	32E	Lea	32.4859736	- 103.6921891	11,652'	16,772'
BHL	BHL: 100' FNL & 1210' FEL (Sec 8)	NMNM121957	NENE	8	21S	32E	Lea	32.5002112	- 103.6921816	11,637'	21,952'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler	1015'	Dolomite/Anhydrite	Usable Water	Yes			
Castile				Delaware (Lamar)	4530'	Limestone/Dolomite	Oil/Natural Gas
Salt Top	1155'	Salt	None	Bell Canyon	4575'	Sandstone	Oil/Natural Gas
Marker Bed 126	2355'	Salt	None	Cherry Canyon			
Salt Base	4180'	Salt	None	Manzanita Marker	5698'	Limestone	Oil/Natural Gas
Yates				Basal Brushy Canyon	6700'	Sandstone	Oil/Natural Gas
Seven Rivers				Bone Spring	8440'	Limestone	Oil/Natural Gas
Queen				1st Bone Spring Sand	9490'		
Capitan				2nd Bone Spring Sand	10140'		
Grayburg				3rd Bone Spring Sand	11110'		
San Andres				Wolfcamp	11515'	Shale/Sandstone/Limestone	Oil/Natural Gas

Casing Program Design A						BLM Minimum Safety Factors		1.125	1.0	1.6 Dry	1.6 Dry
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'	1090'	1090'	13.375" 48# H40 STC	1.58	3.55	6.15	10.34	1.8 Wet
Intermediate	12.25"	0'	0'	3560'	3560'	9.625" 36# J55 LTC	1.13	1.96	2.76	3.44	1.8 Wet
Intermediate	12.25"	3560'	3560'	4455'	4455'	9.625" 40# J55 LTC	1.15	1.76	14.53	17.60	
Production	8.75"	0'	0'	11171'	11094'	7" 26# HCP110 LTC	1.39	1.78	2.39	2.86	
Liner	6.125"	10971'	10898'	21952'	11637'	4.5" 13.5# P110 LTC	1.53	1.78	2.28	2.85	

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 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, Cousin Eddy Fed Unit 14H
Sec 17, T21S, R32E
SHL: 900' FSL 1940' FEL (Sec 17)
BHL: 100' FNL 1210' FEL (Sec 8)

Design A - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft ³ /sack	TOC/BOC	Volume, ft ³	% Excess	Slurry Description
13.375 in	LEAD	590	12.5	2.12	0' - 899'	1260	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	899' - 1090'	268		Class C: Retarder
9.625 in	LEAD	690	12.5	2.12	0' - 3768'	1470	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3768' - 4455'	268		Class C: Retarder
7 in	LEAD	130	12.5	2.12	5455' - 7295'	280	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	500	15.6	1.18	7295' - 11171'	590		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	700	13.5	1.85	10971' - 21952'	1300	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

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	3500#	21,952'
			Blind Ram	X		
		10M	Pipe Ram	X	10000#	
			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' - 1090'	8.4 - 8.6	Fresh Water
1090' - 4455'	8.6 - 9.7	Cut-Brine
4455' - 12071'	8.6 - 9.7	Cut-Brine
12071' - 21952'	10.0 - 11.5	OBM

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

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

Mewbourne Oil Company, Cousin Eddy Fed Unit 14H

Sec 17, T21S, R32E

SHL: 900' FSL 1940' FEL (Sec 17)

BHL: 100' FNL 1210' FEL (Sec 8)

Logging and Testing Procedures

Logging, Coring and Testing.	
N	Will run GR/CNL from KOP (11171') 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: Cousin Eddy Fed Unit #16H
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

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

Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6977 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, Cousin Eddy Fed Unit 14H

Sec 17, T21S, R32E

SHL: 900' FSL 1940' FEL (Sec 17)

BHL: 100' FNL 1210' FEL (Sec 8)

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	1.6 Dry
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	1.8 Wet	1.8 Wet
Surface	17.5"	0'	0'	1090'	1090'	13.375" 48# H40 STC	1.58	3.55	6.15	10.34
Intermediate	12.25"	0'	0'	3560'	3560'	9.625" 36# J55 LTC	1.13	1.96	2.76	3.44
Intermediate	12.25"	3560'	3560'	4455'	4455'	9.625" 40# J55 LTC	1.15	1.76	14.53	17.60
Production	8.75"	0'	0'	12071'	11667'	7" 26# HCP110 LTC	1.33	1.69	2.21	2.64
Liner	6.125"	11171'	11094'	21952'	11637'	4.5" 13.5# P110 LTC	1.53	1.78	2.32	2.90

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

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

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft ³ /sack	TOC/BOC	Volume, ft ³	% Excess	Slurry Description
13.375 in	LEAD	590	12.5	2.12	0' - 899'	1260	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	899' - 1090'	268		Class C: Retarder
9.625 in	LEAD	690	12.5	2.12	0' - 3768'	1470	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3768' - 4455'	268		Class C: Retarder
7 in	LEAD	110	12.5	2.12	5455' - 7032'	240	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	650	15.6	1.18	7032' - 12071'	767		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	680	13.5	1.85	11171' - 21952'	1260	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Mewbourne Oil Company

Lea County, New Mexico NAD 83

Cousin Eddy Fed Unit #14H

Sec 17, T21S, R32E

SHL: 900' FSL & 1940' FEL (Sec 17)

BHL: 100' FNL & 1210' FEL (Sec 8)

Plan: Design #1

Standard Planning Report

25 February, 2025

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #14H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3667.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3667.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #14H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1210' FEL (Sec 8)		
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	Cousin Eddy Fed Unit #14H				
Site Position:		Northing:	536,730.90 usft	Latitude:	32.4739155
From:	Map	Easting:	738,325.20 usft	Longitude:	-103.6945629
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	Sec 17, T21S, R32E					
Well Position	+N-S	0.0 usft	Northing:	536,730.90 usft	Latitude:	32.4739155
	+E-W	0.0 usft	Easting:	738,325.20 usft	Longitude:	-103.6945629
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,667.0 usft	Ground Level:	3,639.0 usft
Grid Convergence:	0.34 °					

Wellbore	BHL: 100' FNL & 1210' FEL (Sec 8)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.22	60.31	48,397.45139838

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	4.05

Plan Survey Tool Program	Date	2/25/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	0.0	Design #1 (BHL: 100' FNL & 1210	

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	

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Site:	Cousin Eddy Fed Unit #14H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1210' FEL (Sec 8)		
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: 900' FSL & 1940' FEL (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	
2,350.0	0.00	0.00	2,350.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,355.0	0.00	0.00	2,355.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.0	0.90	140.20	2,400.0	-0.3	0.2	-0.3	2.00	2.00	0.00	
2,450.0	1.90	140.20	2,450.0	-1.2	1.0	-1.1	2.00	2.00	0.00	
2,500.0	2.90	140.20	2,499.9	-2.8	2.3	-2.6	2.00	2.00	0.00	
2,550.0	3.90	140.20	2,549.8	-5.1	4.2	-4.8	2.00	2.00	0.00	

Planning Report

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Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3667.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #14H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1210' FEL (Sec 8)		
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	4.90	140.20	2,599.7	-8.0	6.7	-7.6	2.00	2.00	0.00
2,650.0	5.90	140.20	2,649.5	-11.7	9.7	-10.9	2.00	2.00	0.00
2,700.0	6.90	140.20	2,699.2	-15.9	13.3	-15.0	2.00	2.00	0.00
2,746.7	7.83	140.20	2,745.5	-20.5	17.1	-19.3	2.00	2.00	0.00
2,750.0	7.83	140.20	2,748.7	-20.9	17.4	-19.6	0.00	0.00	0.00
2,800.0	7.83	140.20	2,798.3	-26.1	21.8	-24.5	0.00	0.00	0.00
2,850.0	7.83	140.20	2,847.8	-31.4	26.1	-29.4	0.00	0.00	0.00
2,900.0	7.83	140.20	2,897.3	-36.6	30.5	-34.4	0.00	0.00	0.00
2,950.0	7.83	140.20	2,946.9	-41.8	34.9	-39.3	0.00	0.00	0.00
3,000.0	7.83	140.20	2,996.4	-47.1	39.2	-44.2	0.00	0.00	0.00
3,050.0	7.83	140.20	3,045.9	-52.3	43.6	-49.1	0.00	0.00	0.00
3,100.0	7.83	140.20	3,095.5	-57.5	47.9	-54.0	0.00	0.00	0.00
3,150.0	7.83	140.20	3,145.0	-62.8	52.3	-58.9	0.00	0.00	0.00
3,200.0	7.83	140.20	3,194.6	-68.0	56.7	-63.8	0.00	0.00	0.00
3,250.0	7.83	140.20	3,244.1	-73.2	61.0	-68.8	0.00	0.00	0.00
3,300.0	7.83	140.20	3,293.6	-78.5	65.4	-73.7	0.00	0.00	0.00
3,350.0	7.83	140.20	3,343.2	-83.7	69.8	-78.6	0.00	0.00	0.00
3,400.0	7.83	140.20	3,392.7	-89.0	74.1	-83.5	0.00	0.00	0.00
3,450.0	7.83	140.20	3,442.2	-94.2	78.5	-88.4	0.00	0.00	0.00
3,500.0	7.83	140.20	3,491.8	-99.4	82.8	-93.3	0.00	0.00	0.00
3,550.0	7.83	140.20	3,541.3	-104.7	87.2	-98.3	0.00	0.00	0.00
3,600.0	7.83	140.20	3,590.8	-109.9	91.6	-103.2	0.00	0.00	0.00
3,650.0	7.83	140.20	3,640.4	-115.1	95.9	-108.1	0.00	0.00	0.00
3,700.0	7.83	140.20	3,689.9	-120.4	100.3	-113.0	0.00	0.00	0.00
3,750.0	7.83	140.20	3,739.4	-125.6	104.7	-117.9	0.00	0.00	0.00
3,800.0	7.83	140.20	3,789.0	-130.8	109.0	-122.8	0.00	0.00	0.00
3,850.0	7.83	140.20	3,838.5	-136.1	113.4	-127.7	0.00	0.00	0.00
3,900.0	7.83	140.20	3,888.0	-141.3	117.7	-132.7	0.00	0.00	0.00
3,950.0	7.83	140.20	3,937.6	-146.6	122.1	-137.6	0.00	0.00	0.00
4,000.0	7.83	140.20	3,987.1	-151.8	126.5	-142.5	0.00	0.00	0.00
4,050.0	7.83	140.20	4,036.6	-157.0	130.8	-147.4	0.00	0.00	0.00
4,100.0	7.83	140.20	4,086.2	-162.3	135.2	-152.3	0.00	0.00	0.00
4,150.0	7.83	140.20	4,135.7	-167.5	139.6	-157.2	0.00	0.00	0.00
4,200.0	7.83	140.20	4,185.2	-172.7	143.9	-162.1	0.00	0.00	0.00
4,250.0	7.83	140.20	4,234.8	-178.0	148.3	-167.1	0.00	0.00	0.00
4,300.0	7.83	140.20	4,284.3	-183.2	152.6	-172.0	0.00	0.00	0.00
4,350.0	7.83	140.20	4,333.8	-188.4	157.0	-176.9	0.00	0.00	0.00
4,400.0	7.83	140.20	4,383.4	-193.7	161.4	-181.8	0.00	0.00	0.00
4,450.0	7.83	140.20	4,432.9	-198.9	165.7	-186.7	0.00	0.00	0.00
4,500.0	7.83	140.20	4,482.4	-204.1	170.1	-191.6	0.00	0.00	0.00
4,550.0	7.83	140.20	4,532.0	-209.4	174.5	-196.6	0.00	0.00	0.00
4,600.0	7.83	140.20	4,581.5	-214.6	178.8	-201.5	0.00	0.00	0.00
4,650.0	7.83	140.20	4,631.0	-219.9	183.2	-206.4	0.00	0.00	0.00
4,700.0	7.83	140.20	4,680.6	-225.1	187.5	-211.3	0.00	0.00	0.00
4,750.0	7.83	140.20	4,730.1	-230.3	191.9	-216.2	0.00	0.00	0.00
4,800.0	7.83	140.20	4,779.6	-235.6	196.3	-221.1	0.00	0.00	0.00
4,850.0	7.83	140.20	4,829.2	-240.8	200.6	-226.0	0.00	0.00	0.00
4,900.0	7.83	140.20	4,878.7	-246.0	205.0	-231.0	0.00	0.00	0.00
4,950.0	7.83	140.20	4,928.2	-251.3	209.3	-235.9	0.00	0.00	0.00
5,000.0	7.83	140.20	4,977.8	-256.5	213.7	-240.8	0.00	0.00	0.00
5,050.0	7.83	140.20	5,027.3	-261.7	218.1	-245.7	0.00	0.00	0.00
5,100.0	7.83	140.20	5,076.8	-267.0	222.4	-250.6	0.00	0.00	0.00
5,150.0	7.83	140.20	5,126.4	-272.2	226.8	-255.5	0.00	0.00	0.00
5,200.0	7.83	140.20	5,175.9	-277.5	231.2	-260.5	0.00	0.00	0.00

Planning Report

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Wellbore:	BHL: 100' FNL & 1210' FEL (Sec 8)		
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	7.83	140.20	5,225.4	-282.7	235.5	-265.4	0.00	0.00	0.00	
5,300.0	7.83	140.20	5,275.0	-287.9	239.9	-270.3	0.00	0.00	0.00	
5,350.0	7.83	140.20	5,324.5	-293.2	244.2	-275.2	0.00	0.00	0.00	
5,400.0	7.83	140.20	5,374.0	-298.4	248.6	-280.1	0.00	0.00	0.00	
5,450.0	7.83	140.20	5,423.6	-303.6	253.0	-285.0	0.00	0.00	0.00	
5,500.0	7.83	140.20	5,473.1	-308.9	257.3	-289.9	0.00	0.00	0.00	
5,550.0	7.83	140.20	5,522.6	-314.1	261.7	-294.9	0.00	0.00	0.00	
5,600.0	7.83	140.20	5,572.2	-319.3	266.1	-299.8	0.00	0.00	0.00	
5,650.0	7.83	140.20	5,621.7	-324.6	270.4	-304.7	0.00	0.00	0.00	
5,700.0	7.83	140.20	5,671.2	-329.8	274.8	-309.6	0.00	0.00	0.00	
5,750.0	7.83	140.20	5,720.8	-335.0	279.1	-314.5	0.00	0.00	0.00	
5,800.0	7.83	140.20	5,770.3	-340.3	283.5	-319.4	0.00	0.00	0.00	
5,850.0	7.83	140.20	5,819.8	-345.5	287.9	-324.3	0.00	0.00	0.00	
5,900.0	7.83	140.20	5,869.4	-350.8	292.2	-329.3	0.00	0.00	0.00	
5,950.0	7.83	140.20	5,918.9	-356.0	296.6	-334.2	0.00	0.00	0.00	
6,000.0	7.83	140.20	5,968.4	-361.2	301.0	-339.1	0.00	0.00	0.00	
6,050.0	7.83	140.20	6,018.0	-366.5	305.3	-344.0	0.00	0.00	0.00	
6,100.0	7.83	140.20	6,067.5	-371.7	309.7	-348.9	0.00	0.00	0.00	
6,150.0	7.83	140.20	6,117.0	-376.9	314.0	-353.8	0.00	0.00	0.00	
6,200.0	7.83	140.20	6,166.6	-382.2	318.4	-358.8	0.00	0.00	0.00	
6,250.0	7.83	140.20	6,216.1	-387.4	322.8	-363.7	0.00	0.00	0.00	
6,300.0	7.83	140.20	6,265.6	-392.6	327.1	-368.6	0.00	0.00	0.00	
6,350.0	7.83	140.20	6,315.2	-397.9	331.5	-373.5	0.00	0.00	0.00	
6,400.0	7.83	140.20	6,364.7	-403.1	335.9	-378.4	0.00	0.00	0.00	
6,450.0	7.83	140.20	6,414.2	-408.4	340.2	-383.3	0.00	0.00	0.00	
6,500.0	7.83	140.20	6,463.8	-413.6	344.6	-388.2	0.00	0.00	0.00	
6,550.0	7.83	140.20	6,513.3	-418.8	348.9	-393.2	0.00	0.00	0.00	
6,600.0	7.83	140.20	6,562.8	-424.1	353.3	-398.1	0.00	0.00	0.00	
6,650.0	7.83	140.20	6,612.4	-429.3	357.7	-403.0	0.00	0.00	0.00	
6,700.0	7.83	140.20	6,661.9	-434.5	362.0	-407.9	0.00	0.00	0.00	
6,750.0	7.83	140.20	6,711.4	-439.8	366.4	-412.8	0.00	0.00	0.00	
6,800.0	7.83	140.20	6,761.0	-445.0	370.8	-417.7	0.00	0.00	0.00	
6,850.0	7.83	140.20	6,810.5	-450.2	375.1	-422.7	0.00	0.00	0.00	
6,900.0	7.83	140.20	6,860.0	-455.5	379.5	-427.6	0.00	0.00	0.00	
6,950.0	7.83	140.20	6,909.6	-460.7	383.8	-432.5	0.00	0.00	0.00	
7,000.0	7.83	140.20	6,959.1	-465.9	388.2	-437.4	0.00	0.00	0.00	
7,050.0	7.83	140.20	7,008.6	-471.2	392.6	-442.3	0.00	0.00	0.00	
7,100.0	7.83	140.20	7,058.2	-476.4	396.9	-447.2	0.00	0.00	0.00	
7,150.0	7.83	140.20	7,107.7	-481.7	401.3	-452.1	0.00	0.00	0.00	
7,200.0	7.83	140.20	7,157.2	-486.9	405.7	-457.1	0.00	0.00	0.00	
7,250.0	7.83	140.20	7,206.8	-492.1	410.0	-462.0	0.00	0.00	0.00	
7,300.0	7.83	140.20	7,256.3	-497.4	414.4	-466.9	0.00	0.00	0.00	
7,350.0	7.83	140.20	7,305.8	-502.6	418.7	-471.8	0.00	0.00	0.00	
7,400.0	7.83	140.20	7,355.4	-507.8	423.1	-476.7	0.00	0.00	0.00	
7,450.0	7.83	140.20	7,404.9	-513.1	427.5	-481.6	0.00	0.00	0.00	
7,500.0	7.83	140.20	7,454.4	-518.3	431.8	-486.6	0.00	0.00	0.00	
7,550.0	7.83	140.20	7,504.0	-523.5	436.2	-491.5	0.00	0.00	0.00	
7,600.0	7.83	140.20	7,553.5	-528.8	440.6	-496.4	0.00	0.00	0.00	
7,650.0	7.83	140.20	7,603.0	-534.0	444.9	-501.3	0.00	0.00	0.00	
7,700.0	7.83	140.20	7,652.6	-539.3	449.3	-506.2	0.00	0.00	0.00	
7,750.0	7.83	140.20	7,702.1	-544.5	453.6	-511.1	0.00	0.00	0.00	
7,800.0	7.83	140.20	7,751.6	-549.7	458.0	-516.0	0.00	0.00	0.00	
7,850.0	7.83	140.20	7,801.2	-555.0	462.4	-521.0	0.00	0.00	0.00	
7,900.0	7.83	140.20	7,850.7	-560.2	466.7	-525.9	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #14H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3667.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3667.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #14H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1210' FEL (Sec 8)		
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	7.83	140.20	7,900.2	-565.4	471.1	-530.8	0.00	0.00	0.00
8,000.0	7.83	140.20	7,949.8	-570.7	475.5	-535.7	0.00	0.00	0.00
8,050.0	7.83	140.20	7,999.3	-575.9	479.8	-540.6	0.00	0.00	0.00
8,100.0	7.83	140.20	8,048.8	-581.1	484.2	-545.5	0.00	0.00	0.00
8,150.0	7.83	140.20	8,098.4	-586.4	488.5	-550.4	0.00	0.00	0.00
8,200.0	7.83	140.20	8,147.9	-591.6	492.9	-555.4	0.00	0.00	0.00
8,250.0	7.83	140.20	8,197.4	-596.8	497.3	-560.3	0.00	0.00	0.00
8,300.0	7.83	140.20	8,247.0	-602.1	501.6	-565.2	0.00	0.00	0.00
8,350.0	7.83	140.20	8,296.5	-607.3	506.0	-570.1	0.00	0.00	0.00
8,400.0	7.83	140.20	8,346.0	-612.6	510.4	-575.0	0.00	0.00	0.00
8,450.0	7.83	140.20	8,395.6	-617.8	514.7	-579.9	0.00	0.00	0.00
8,500.0	7.83	140.20	8,445.1	-623.0	519.1	-584.9	0.00	0.00	0.00
8,550.0	7.83	140.20	8,494.6	-628.3	523.4	-589.8	0.00	0.00	0.00
8,600.0	7.83	140.20	8,544.2	-633.5	527.8	-594.7	0.00	0.00	0.00
8,650.0	7.83	140.20	8,593.7	-638.7	532.2	-599.6	0.00	0.00	0.00
8,700.0	7.83	140.20	8,643.2	-644.0	536.5	-604.5	0.00	0.00	0.00
8,750.0	7.83	140.20	8,692.8	-649.2	540.9	-609.4	0.00	0.00	0.00
8,800.0	7.83	140.20	8,742.3	-654.4	545.3	-614.3	0.00	0.00	0.00
8,850.0	7.83	140.20	8,791.8	-659.7	549.6	-619.3	0.00	0.00	0.00
8,900.0	7.83	140.20	8,841.4	-664.9	554.0	-624.2	0.00	0.00	0.00
8,950.0	7.83	140.20	8,890.9	-670.2	558.3	-629.1	0.00	0.00	0.00
9,000.0	7.83	140.20	8,940.4	-675.4	562.7	-634.0	0.00	0.00	0.00
9,050.0	7.83	140.20	8,990.0	-680.6	567.1	-638.9	0.00	0.00	0.00
9,100.0	7.83	140.20	9,039.5	-685.9	571.4	-643.8	0.00	0.00	0.00
9,150.0	7.83	140.20	9,089.0	-691.1	575.8	-648.8	0.00	0.00	0.00
9,200.0	7.83	140.20	9,138.6	-696.3	580.2	-653.7	0.00	0.00	0.00
9,250.0	7.83	140.20	9,188.1	-701.6	584.5	-658.6	0.00	0.00	0.00
9,300.0	7.83	140.20	9,237.6	-706.8	588.9	-663.5	0.00	0.00	0.00
9,350.0	7.83	140.20	9,287.2	-712.0	593.2	-668.4	0.00	0.00	0.00
9,400.0	7.83	140.20	9,336.7	-717.3	597.6	-673.3	0.00	0.00	0.00
9,450.0	7.83	140.20	9,386.2	-722.5	602.0	-678.2	0.00	0.00	0.00
9,500.0	7.83	140.20	9,435.8	-727.7	606.3	-683.2	0.00	0.00	0.00
9,550.0	7.83	140.20	9,485.3	-733.0	610.7	-688.1	0.00	0.00	0.00
9,600.0	7.83	140.20	9,534.8	-738.2	615.1	-693.0	0.00	0.00	0.00
9,650.0	7.83	140.20	9,584.4	-743.5	619.4	-697.9	0.00	0.00	0.00
9,700.0	7.83	140.20	9,633.9	-748.7	623.8	-702.8	0.00	0.00	0.00
9,750.0	7.83	140.20	9,683.4	-753.9	628.1	-707.7	0.00	0.00	0.00
9,800.0	7.83	140.20	9,733.0	-759.2	632.5	-712.6	0.00	0.00	0.00
9,850.0	7.83	140.20	9,782.5	-764.4	636.9	-717.6	0.00	0.00	0.00
9,900.0	7.83	140.20	9,832.0	-769.6	641.2	-722.5	0.00	0.00	0.00
9,950.0	7.83	140.20	9,881.6	-774.9	645.6	-727.4	0.00	0.00	0.00
10,000.0	7.83	140.20	9,931.1	-780.1	650.0	-732.3	0.00	0.00	0.00
10,050.0	7.83	140.20	9,980.6	-785.3	654.3	-737.2	0.00	0.00	0.00
10,100.0	7.83	140.20	10,030.2	-790.6	658.7	-742.1	0.00	0.00	0.00
10,150.0	7.83	140.20	10,079.7	-795.8	663.0	-747.1	0.00	0.00	0.00
10,200.0	7.83	140.20	10,129.2	-801.1	667.4	-752.0	0.00	0.00	0.00
10,250.0	7.83	140.20	10,178.8	-806.3	671.8	-756.9	0.00	0.00	0.00
10,300.0	7.83	140.20	10,228.3	-811.5	676.1	-761.8	0.00	0.00	0.00
10,350.0	7.83	140.20	10,277.8	-816.8	680.5	-766.7	0.00	0.00	0.00
10,400.0	7.83	140.20	10,327.4	-822.0	684.9	-771.6	0.00	0.00	0.00
10,450.0	7.83	140.20	10,376.9	-827.2	689.2	-776.5	0.00	0.00	0.00
10,500.0	7.83	140.20	10,426.4	-832.5	693.6	-781.5	0.00	0.00	0.00
10,550.0	7.83	140.20	10,476.0	-837.7	697.9	-786.4	0.00	0.00	0.00
10,600.0	7.83	140.20	10,525.5	-842.9	702.3	-791.3	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #14H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3667.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3667.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #14H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1210' FEL (Sec 8)		
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)
10,650.0	7.83	140.20	10,575.0	-848.2	706.7	-796.2	0.00	0.00	0.00
10,700.0	7.83	140.20	10,624.6	-853.4	711.0	-801.1	0.00	0.00	0.00
10,750.0	7.83	140.20	10,674.1	-858.6	715.4	-806.0	0.00	0.00	0.00
10,779.7	7.83	140.20	10,703.5	-861.8	718.0	-809.0	0.00	0.00	0.00
10,800.0	7.43	140.20	10,723.6	-863.8	719.7	-810.9	2.00	-2.00	0.00
10,850.0	6.43	140.20	10,773.3	-868.5	723.6	-815.3	2.00	-2.00	0.00
10,900.0	5.43	140.20	10,823.0	-872.4	726.9	-819.0	2.00	-2.00	0.00
10,950.0	4.43	140.20	10,872.8	-875.7	729.6	-822.1	2.00	-2.00	0.00
11,000.0	3.43	140.20	10,922.7	-878.4	731.8	-824.5	2.00	-2.00	0.00
11,050.0	2.43	140.20	10,972.6	-880.3	733.5	-826.4	2.00	-2.00	0.00
11,100.0	1.43	140.20	11,022.6	-881.6	734.5	-827.6	2.00	-2.00	0.00
11,150.0	0.43	140.20	11,072.6	-882.2	735.0	-828.2	2.00	-2.00	0.00
11,171.4	0.00	0.00	11,094.0	-882.3	735.1	-828.2	2.00	-2.00	0.00
KOP: 10' FSL & 1210' FEL (Sec 17)									
11,200.0	2.86	359.68	11,122.6	-881.6	735.1	-827.5	10.00	10.00	0.00
11,250.0	7.86	359.68	11,172.3	-876.9	735.1	-822.9	10.00	10.00	0.00
11,300.0	12.86	359.68	11,221.5	-867.9	735.0	-813.9	10.00	10.00	0.00
11,350.0	17.86	359.68	11,269.7	-854.7	734.9	-800.7	10.00	10.00	0.00
11,400.0	22.86	359.68	11,316.6	-837.3	734.8	-783.4	10.00	10.00	0.00
11,450.0	27.86	359.68	11,361.7	-815.9	734.7	-762.0	10.00	10.00	0.00
11,496.7	32.53	359.68	11,402.1	-792.4	734.6	-738.6	10.00	10.00	0.00
FTP: 100' FSL & 1210' FEL (Sec 17)									
11,500.0	32.86	359.68	11,404.9	-790.6	734.6	-736.8	10.00	10.00	0.00
11,550.0	37.86	359.68	11,445.6	-761.7	734.4	-708.0	10.00	10.00	0.00
11,600.0	42.86	359.68	11,483.7	-729.4	734.2	-675.7	10.00	10.00	0.00
11,650.0	47.86	359.68	11,518.9	-693.8	734.1	-640.3	10.00	10.00	0.00
11,700.0	52.85	359.68	11,550.7	-655.3	733.8	-601.9	10.00	10.00	0.00
11,750.0	57.85	359.68	11,579.2	-614.2	733.6	-560.9	10.00	10.00	0.00
11,800.0	62.85	359.68	11,603.9	-570.7	733.4	-517.6	10.00	10.00	0.00
11,850.0	67.85	359.68	11,624.7	-525.3	733.1	-472.3	10.00	10.00	0.00
11,900.0	72.85	359.68	11,641.5	-478.2	732.9	-425.3	10.00	10.00	0.00
11,950.0	77.85	359.68	11,654.2	-429.9	732.6	-377.1	10.00	10.00	0.00
12,000.0	82.85	359.68	11,662.5	-380.6	732.3	-328.0	10.00	10.00	0.00
12,050.0	87.85	359.68	11,666.6	-330.8	732.0	-278.3	10.00	10.00	0.00
12,071.4	90.00	359.68	11,667.0	-309.3	731.9	-256.9	10.00	10.00	0.00
LP: 583' FSL & 1210' FEL (Sec 17)									
12,073.2	90.17	359.68	11,667.0	-307.6	731.9	-255.2	10.00	10.00	0.00
12,100.0	90.17	359.68	11,666.9	-280.8	731.8	-228.5	0.00	0.00	0.00
12,150.0	90.17	359.68	11,666.8	-230.8	731.5	-178.6	0.00	0.00	0.00
12,200.0	90.17	359.68	11,666.6	-180.8	731.2	-128.8	0.00	0.00	0.00
12,250.0	90.17	359.68	11,666.5	-130.8	730.9	-78.9	0.00	0.00	0.00
12,300.0	90.17	359.68	11,666.3	-80.8	730.6	-29.0	0.00	0.00	0.00
12,350.0	90.17	359.68	11,666.2	-30.8	730.4	20.8	0.00	0.00	0.00
12,400.0	90.17	359.68	11,666.0	19.2	730.1	70.7	0.00	0.00	0.00
12,450.0	90.17	359.68	11,665.9	69.2	729.8	120.5	0.00	0.00	0.00
12,500.0	90.17	359.68	11,665.7	119.2	729.5	170.4	0.00	0.00	0.00
12,550.0	90.17	359.68	11,665.6	169.2	729.2	220.2	0.00	0.00	0.00
12,600.0	90.17	359.68	11,665.4	219.2	729.0	270.1	0.00	0.00	0.00
12,650.0	90.17	359.68	11,665.2	269.2	728.7	319.9	0.00	0.00	0.00
12,700.0	90.17	359.68	11,665.1	319.2	728.4	369.8	0.00	0.00	0.00
12,750.0	90.17	359.68	11,664.9	369.2	728.1	419.6	0.00	0.00	0.00
12,800.0	90.17	359.68	11,664.8	419.2	727.9	469.5	0.00	0.00	0.00
12,850.0	90.17	359.68	11,664.6	469.2	727.6	519.4	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #14H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3667.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3667.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #14H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1210' FEL (Sec 8)		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,900.0	90.17	359.68	11,664.5	519.2	727.3	569.2	0.00	0.00	0.00
12,950.0	90.17	359.68	11,664.3	569.2	727.0	619.1	0.00	0.00	0.00
13,000.0	90.17	359.68	11,664.2	619.2	726.7	668.9	0.00	0.00	0.00
13,050.0	90.17	359.68	11,664.0	669.2	726.5	718.8	0.00	0.00	0.00
13,100.0	90.17	359.68	11,663.9	719.2	726.2	768.6	0.00	0.00	0.00
13,150.0	90.17	359.68	11,663.7	769.2	725.9	818.5	0.00	0.00	0.00
13,200.0	90.17	359.68	11,663.6	819.2	725.6	868.3	0.00	0.00	0.00
13,250.0	90.17	359.68	11,663.4	869.2	725.3	918.2	0.00	0.00	0.00
13,300.0	90.17	359.68	11,663.3	919.2	725.1	968.1	0.00	0.00	0.00
13,350.0	90.17	359.68	11,663.1	969.2	724.8	1,017.9	0.00	0.00	0.00
13,400.0	90.17	359.68	11,663.0	1,019.2	724.5	1,067.8	0.00	0.00	0.00
13,450.0	90.17	359.68	11,662.8	1,069.2	724.2	1,117.6	0.00	0.00	0.00
13,500.0	90.17	359.68	11,662.7	1,119.2	724.0	1,167.5	0.00	0.00	0.00
13,550.0	90.17	359.68	11,662.5	1,169.2	723.7	1,217.3	0.00	0.00	0.00
13,600.0	90.17	359.68	11,662.4	1,219.2	723.4	1,267.2	0.00	0.00	0.00
13,650.0	90.17	359.68	11,662.2	1,269.2	723.1	1,317.0	0.00	0.00	0.00
13,700.0	90.17	359.68	11,662.1	1,319.2	722.8	1,366.9	0.00	0.00	0.00
13,750.0	90.17	359.68	11,661.9	1,369.2	722.6	1,416.7	0.00	0.00	0.00
13,800.0	90.17	359.68	11,661.8	1,419.2	722.3	1,466.6	0.00	0.00	0.00
13,850.0	90.17	359.68	11,661.6	1,469.2	722.0	1,516.5	0.00	0.00	0.00
13,900.0	90.17	359.68	11,661.5	1,519.2	721.7	1,566.3	0.00	0.00	0.00
13,950.0	90.17	359.68	11,661.3	1,569.2	721.5	1,616.2	0.00	0.00	0.00
14,000.0	90.17	359.68	11,661.1	1,619.2	721.2	1,666.0	0.00	0.00	0.00
14,050.0	90.17	359.68	11,661.0	1,669.2	720.9	1,715.9	0.00	0.00	0.00
14,100.0	90.17	359.68	11,660.8	1,719.2	720.6	1,765.7	0.00	0.00	0.00
14,150.0	90.17	359.68	11,660.7	1,769.2	720.3	1,815.6	0.00	0.00	0.00
14,200.0	90.17	359.68	11,660.5	1,819.2	720.1	1,865.4	0.00	0.00	0.00
14,250.0	90.17	359.68	11,660.4	1,869.2	719.8	1,915.3	0.00	0.00	0.00
14,300.0	90.17	359.68	11,660.2	1,919.2	719.5	1,965.1	0.00	0.00	0.00
14,350.0	90.17	359.68	11,660.1	1,969.2	719.2	2,015.0	0.00	0.00	0.00
14,400.0	90.17	359.68	11,659.9	2,019.2	718.9	2,064.9	0.00	0.00	0.00
14,450.0	90.17	359.68	11,659.8	2,069.2	718.7	2,114.7	0.00	0.00	0.00
14,500.0	90.17	359.68	11,659.6	2,119.2	718.4	2,164.6	0.00	0.00	0.00
14,550.0	90.17	359.68	11,659.5	2,169.2	718.1	2,214.4	0.00	0.00	0.00
14,600.0	90.17	359.68	11,659.3	2,219.2	717.8	2,264.3	0.00	0.00	0.00
14,650.0	90.17	359.68	11,659.2	2,269.2	717.6	2,314.1	0.00	0.00	0.00
14,700.0	90.17	359.68	11,659.0	2,319.2	717.3	2,364.0	0.00	0.00	0.00
14,750.0	90.17	359.68	11,658.9	2,369.2	717.0	2,413.8	0.00	0.00	0.00
14,800.0	90.17	359.68	11,658.7	2,419.2	716.7	2,463.7	0.00	0.00	0.00
14,850.0	90.17	359.68	11,658.6	2,469.2	716.4	2,513.5	0.00	0.00	0.00
14,900.0	90.17	359.68	11,658.4	2,519.2	716.2	2,563.4	0.00	0.00	0.00
14,950.0	90.17	359.68	11,658.3	2,569.2	715.9	2,613.3	0.00	0.00	0.00
15,000.0	90.17	359.68	11,658.1	2,619.2	715.6	2,663.1	0.00	0.00	0.00
15,050.0	90.17	359.68	11,658.0	2,669.2	715.3	2,713.0	0.00	0.00	0.00
15,100.0	90.17	359.68	11,657.8	2,719.2	715.0	2,762.8	0.00	0.00	0.00
15,150.0	90.17	359.68	11,657.7	2,769.2	714.8	2,812.7	0.00	0.00	0.00
15,200.0	90.17	359.68	11,657.5	2,819.2	714.5	2,862.5	0.00	0.00	0.00
15,250.0	90.17	359.68	11,657.4	2,869.1	714.2	2,912.4	0.00	0.00	0.00
15,300.0	90.17	359.68	11,657.2	2,919.1	713.9	2,962.2	0.00	0.00	0.00
15,350.0	90.17	359.68	11,657.0	2,969.1	713.7	3,012.1	0.00	0.00	0.00
15,400.0	90.17	359.68	11,656.9	3,019.1	713.4	3,062.0	0.00	0.00	0.00
15,450.0	90.17	359.68	11,656.7	3,069.1	713.1	3,111.8	0.00	0.00	0.00
15,500.0	90.17	359.68	11,656.6	3,119.1	712.8	3,161.7	0.00	0.00	0.00
15,550.0	90.17	359.68	11,656.4	3,169.1	712.5	3,211.5	0.00	0.00	0.00

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Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3667.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3667.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #14H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1210' FEL (Sec 8)		
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)	
15,600.0	90.17	359.68	11,656.3	3,219.1	712.3	3,261.4	0.00	0.00	0.00	
15,650.0	90.17	359.68	11,656.1	3,269.1	712.0	3,311.2	0.00	0.00	0.00	
15,700.0	90.17	359.68	11,656.0	3,319.1	711.7	3,361.1	0.00	0.00	0.00	
15,750.0	90.17	359.68	11,655.8	3,369.1	711.4	3,410.9	0.00	0.00	0.00	
15,800.0	90.17	359.68	11,655.7	3,419.1	711.2	3,460.8	0.00	0.00	0.00	
15,850.0	90.17	359.68	11,655.5	3,469.1	710.9	3,510.6	0.00	0.00	0.00	
15,900.0	90.17	359.68	11,655.4	3,519.1	710.6	3,560.5	0.00	0.00	0.00	
15,950.0	90.17	359.68	11,655.2	3,569.1	710.3	3,610.4	0.00	0.00	0.00	
16,000.0	90.17	359.68	11,655.1	3,619.1	710.0	3,660.2	0.00	0.00	0.00	
16,050.0	90.17	359.68	11,654.9	3,669.1	709.8	3,710.1	0.00	0.00	0.00	
16,100.0	90.17	359.68	11,654.8	3,719.1	709.5	3,759.9	0.00	0.00	0.00	
16,150.0	90.17	359.68	11,654.6	3,769.1	709.2	3,809.8	0.00	0.00	0.00	
16,200.0	90.17	359.68	11,654.5	3,819.1	708.9	3,859.6	0.00	0.00	0.00	
16,250.0	90.17	359.68	11,654.3	3,869.1	708.6	3,909.5	0.00	0.00	0.00	
16,300.0	90.17	359.68	11,654.2	3,919.1	708.4	3,959.3	0.00	0.00	0.00	
16,350.0	90.17	359.68	11,654.0	3,969.1	708.1	4,009.2	0.00	0.00	0.00	
16,400.0	90.17	359.68	11,653.9	4,019.1	707.8	4,059.0	0.00	0.00	0.00	
16,450.0	90.17	359.68	11,653.7	4,069.1	707.5	4,108.9	0.00	0.00	0.00	
16,500.0	90.17	359.68	11,653.6	4,119.1	707.3	4,158.8	0.00	0.00	0.00	
16,550.0	90.17	359.68	11,653.4	4,169.1	707.0	4,208.6	0.00	0.00	0.00	
16,600.0	90.17	359.68	11,653.3	4,219.1	706.7	4,258.5	0.00	0.00	0.00	
16,650.0	90.17	359.68	11,653.1	4,269.1	706.4	4,308.3	0.00	0.00	0.00	
16,700.0	90.17	359.68	11,652.9	4,319.1	706.1	4,358.2	0.00	0.00	0.00	
16,750.0	90.17	359.68	11,652.8	4,369.1	705.9	4,408.0	0.00	0.00	0.00	
16,772.1	90.17	359.68	11,652.7	4,391.2	705.7	4,430.0	0.00	0.00	0.00	
PPP2: 0' FSL & 1210' FEL (Sec 8)										
16,800.0	90.17	359.68	11,652.6	4,419.1	705.6	4,457.9	0.00	0.00	0.00	
16,850.0	90.17	359.68	11,652.5	4,469.1	705.3	4,507.7	0.00	0.00	0.00	
16,900.0	90.17	359.68	11,652.3	4,519.1	705.0	4,557.6	0.00	0.00	0.00	
16,950.0	90.17	359.68	11,652.2	4,569.1	704.7	4,607.4	0.00	0.00	0.00	
17,000.0	90.17	359.68	11,652.0	4,619.1	704.5	4,657.3	0.00	0.00	0.00	
17,050.0	90.17	359.68	11,651.9	4,669.1	704.2	4,707.2	0.00	0.00	0.00	
17,100.0	90.17	359.68	11,651.7	4,719.1	703.9	4,757.0	0.00	0.00	0.00	
17,150.0	90.17	359.68	11,651.6	4,769.1	703.6	4,806.9	0.00	0.00	0.00	
17,200.0	90.17	359.68	11,651.4	4,819.1	703.4	4,856.7	0.00	0.00	0.00	
17,250.0	90.17	359.68	11,651.3	4,869.1	703.1	4,906.6	0.00	0.00	0.00	
17,300.0	90.17	359.68	11,651.1	4,919.1	702.8	4,956.4	0.00	0.00	0.00	
17,350.0	90.17	359.68	11,651.0	4,969.1	702.5	5,006.3	0.00	0.00	0.00	
17,400.0	90.17	359.68	11,650.8	5,019.1	702.2	5,056.1	0.00	0.00	0.00	
17,450.0	90.17	359.68	11,650.7	5,069.1	702.0	5,106.0	0.00	0.00	0.00	
17,500.0	90.17	359.68	11,650.5	5,119.1	701.7	5,155.9	0.00	0.00	0.00	
17,550.0	90.17	359.68	11,650.4	5,169.1	701.4	5,205.7	0.00	0.00	0.00	
17,600.0	90.17	359.68	11,650.2	5,219.1	701.1	5,255.6	0.00	0.00	0.00	
17,650.0	90.17	359.68	11,650.1	5,269.1	700.9	5,305.4	0.00	0.00	0.00	
17,700.0	90.17	359.68	11,649.9	5,319.1	700.6	5,355.3	0.00	0.00	0.00	
17,750.0	90.17	359.68	11,649.8	5,369.1	700.3	5,405.1	0.00	0.00	0.00	
17,800.0	90.17	359.68	11,649.6	5,419.1	700.0	5,455.0	0.00	0.00	0.00	
17,850.0	90.17	359.68	11,649.5	5,469.1	699.7	5,504.8	0.00	0.00	0.00	
17,900.0	90.17	359.68	11,649.3	5,519.1	699.5	5,554.7	0.00	0.00	0.00	
17,950.0	90.17	359.68	11,649.2	5,569.1	699.2	5,604.5	0.00	0.00	0.00	
18,000.0	90.17	359.68	11,649.0	5,619.1	698.9	5,654.4	0.00	0.00	0.00	
18,050.0	90.17	359.68	11,648.8	5,669.1	698.6	5,704.3	0.00	0.00	0.00	
18,100.0	90.17	359.68	11,648.7	5,719.1	698.3	5,754.1	0.00	0.00	0.00	

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Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1210' FEL (Sec 8)		
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)
18,150.0	90.17	359.68	11,648.5	5,769.1	698.1	5,804.0	0.00	0.00	0.00
18,200.0	90.17	359.68	11,648.4	5,819.1	697.8	5,853.8	0.00	0.00	0.00
18,250.0	90.17	359.68	11,648.2	5,869.1	697.5	5,903.7	0.00	0.00	0.00
18,300.0	90.17	359.68	11,648.1	5,919.1	697.2	5,953.5	0.00	0.00	0.00
18,350.0	90.17	359.68	11,647.9	5,969.1	697.0	6,003.4	0.00	0.00	0.00
18,400.0	90.17	359.68	11,647.8	6,019.1	696.7	6,053.2	0.00	0.00	0.00
18,450.0	90.17	359.68	11,647.6	6,069.1	696.4	6,103.1	0.00	0.00	0.00
18,500.0	90.17	359.68	11,647.5	6,119.1	696.1	6,152.9	0.00	0.00	0.00
18,550.0	90.17	359.68	11,647.3	6,169.1	695.8	6,202.8	0.00	0.00	0.00
18,600.0	90.17	359.68	11,647.2	6,219.1	695.6	6,252.7	0.00	0.00	0.00
18,650.0	90.17	359.68	11,647.0	6,269.1	695.3	6,302.5	0.00	0.00	0.00
18,700.0	90.17	359.68	11,646.9	6,319.1	695.0	6,352.4	0.00	0.00	0.00
18,750.0	90.17	359.68	11,646.7	6,369.1	694.7	6,402.2	0.00	0.00	0.00
18,800.0	90.17	359.68	11,646.6	6,419.1	694.4	6,452.1	0.00	0.00	0.00
18,850.0	90.17	359.68	11,646.4	6,469.1	694.2	6,501.9	0.00	0.00	0.00
18,900.0	90.17	359.68	11,646.3	6,519.1	693.9	6,551.8	0.00	0.00	0.00
18,950.0	90.17	359.68	11,646.1	6,569.1	693.6	6,601.6	0.00	0.00	0.00
19,000.0	90.17	359.68	11,646.0	6,619.1	693.3	6,651.5	0.00	0.00	0.00
19,050.0	90.17	359.68	11,645.8	6,669.1	693.1	6,701.4	0.00	0.00	0.00
19,100.0	90.17	359.68	11,645.7	6,719.1	692.8	6,751.2	0.00	0.00	0.00
19,150.0	90.17	359.68	11,645.5	6,769.1	692.5	6,801.1	0.00	0.00	0.00
19,200.0	90.17	359.68	11,645.4	6,819.1	692.2	6,850.9	0.00	0.00	0.00
19,250.0	90.17	359.68	11,645.2	6,869.1	691.9	6,900.8	0.00	0.00	0.00
19,300.0	90.17	359.68	11,645.1	6,919.1	691.7	6,950.6	0.00	0.00	0.00
19,350.0	90.17	359.68	11,644.9	6,969.1	691.4	7,000.5	0.00	0.00	0.00
19,400.0	90.17	359.68	11,644.7	7,019.1	691.1	7,050.3	0.00	0.00	0.00
19,450.0	90.17	359.68	11,644.6	7,069.1	690.8	7,100.2	0.00	0.00	0.00
19,500.0	90.17	359.68	11,644.4	7,119.1	690.6	7,150.0	0.00	0.00	0.00
19,550.0	90.17	359.68	11,644.3	7,169.1	690.3	7,199.9	0.00	0.00	0.00
19,600.0	90.17	359.68	11,644.1	7,219.1	690.0	7,249.8	0.00	0.00	0.00
19,650.0	90.17	359.68	11,644.0	7,269.1	689.7	7,299.6	0.00	0.00	0.00
19,700.0	90.17	359.68	11,643.8	7,319.1	689.4	7,349.5	0.00	0.00	0.00
19,750.0	90.17	359.68	11,643.7	7,369.1	689.2	7,399.3	0.00	0.00	0.00
19,800.0	90.17	359.68	11,643.5	7,419.1	688.9	7,449.2	0.00	0.00	0.00
19,850.0	90.17	359.68	11,643.4	7,469.1	688.6	7,499.0	0.00	0.00	0.00
19,900.0	90.17	359.68	11,643.2	7,519.1	688.3	7,548.9	0.00	0.00	0.00
19,950.0	90.17	359.68	11,643.1	7,569.1	688.0	7,598.7	0.00	0.00	0.00
20,000.0	90.17	359.68	11,642.9	7,619.1	687.8	7,648.6	0.00	0.00	0.00
20,050.0	90.17	359.68	11,642.8	7,669.1	687.5	7,698.4	0.00	0.00	0.00
20,100.0	90.17	359.68	11,642.6	7,719.1	687.2	7,748.3	0.00	0.00	0.00
20,150.0	90.17	359.68	11,642.5	7,769.1	686.9	7,798.2	0.00	0.00	0.00
20,200.0	90.17	359.68	11,642.3	7,819.0	686.7	7,848.0	0.00	0.00	0.00
20,250.0	90.17	359.68	11,642.2	7,869.0	686.4	7,897.9	0.00	0.00	0.00
20,300.0	90.17	359.68	11,642.0	7,919.0	686.1	7,947.7	0.00	0.00	0.00
20,350.0	90.17	359.68	11,641.9	7,969.0	685.8	7,997.6	0.00	0.00	0.00
20,400.0	90.17	359.68	11,641.7	8,019.0	685.5	8,047.4	0.00	0.00	0.00
20,450.0	90.17	359.68	11,641.6	8,069.0	685.3	8,097.3	0.00	0.00	0.00
20,500.0	90.17	359.68	11,641.4	8,119.0	685.0	8,147.1	0.00	0.00	0.00
20,550.0	90.17	359.68	11,641.3	8,169.0	684.7	8,197.0	0.00	0.00	0.00
20,600.0	90.17	359.68	11,641.1	8,219.0	684.4	8,246.8	0.00	0.00	0.00
20,650.0	90.17	359.68	11,641.0	8,269.0	684.1	8,296.7	0.00	0.00	0.00
20,700.0	90.17	359.68	11,640.8	8,319.0	683.9	8,346.6	0.00	0.00	0.00
20,750.0	90.17	359.68	11,640.7	8,369.0	683.6	8,396.4	0.00	0.00	0.00
20,800.0	90.17	359.68	11,640.5	8,419.0	683.3	8,446.3	0.00	0.00	0.00

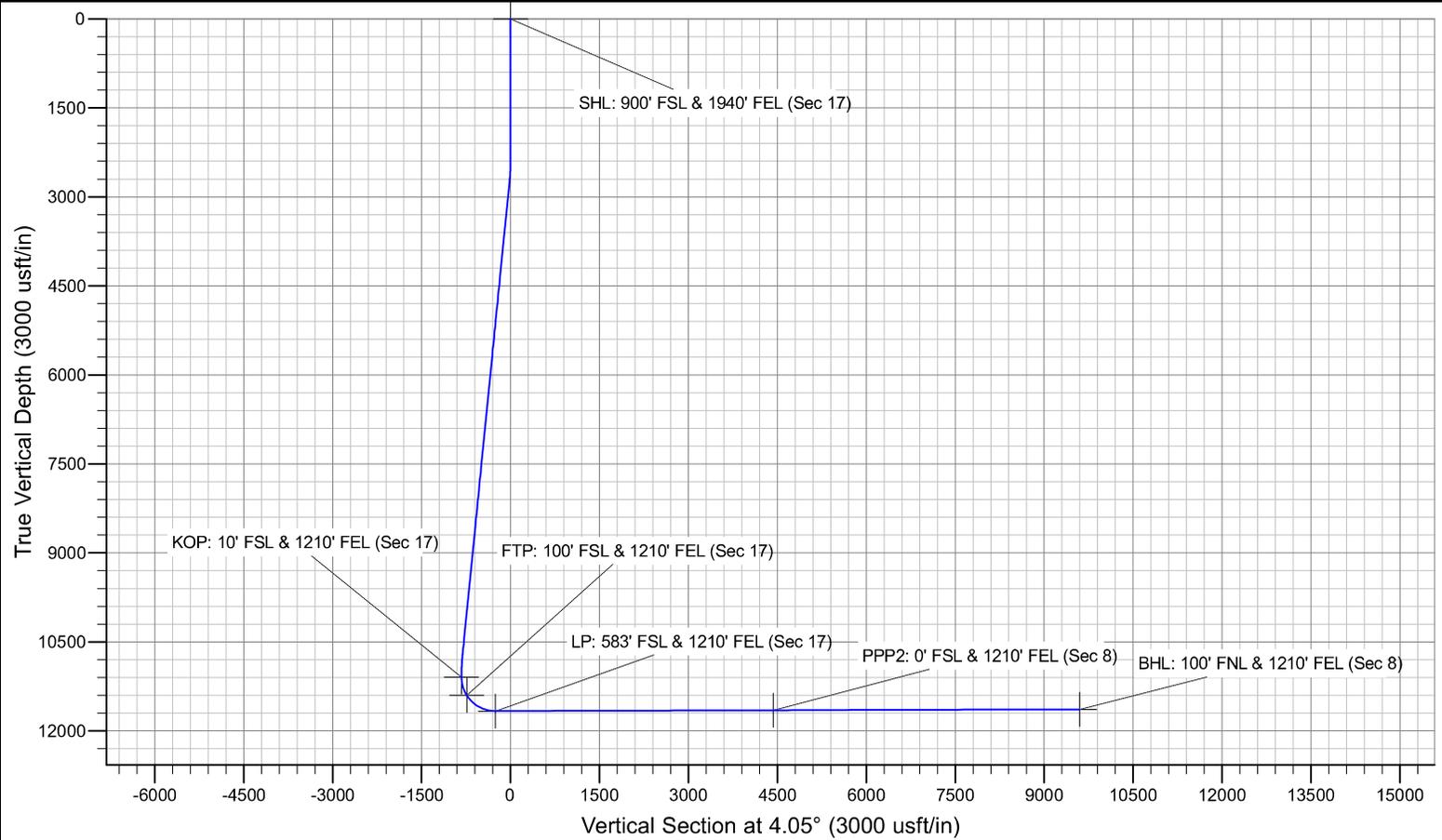
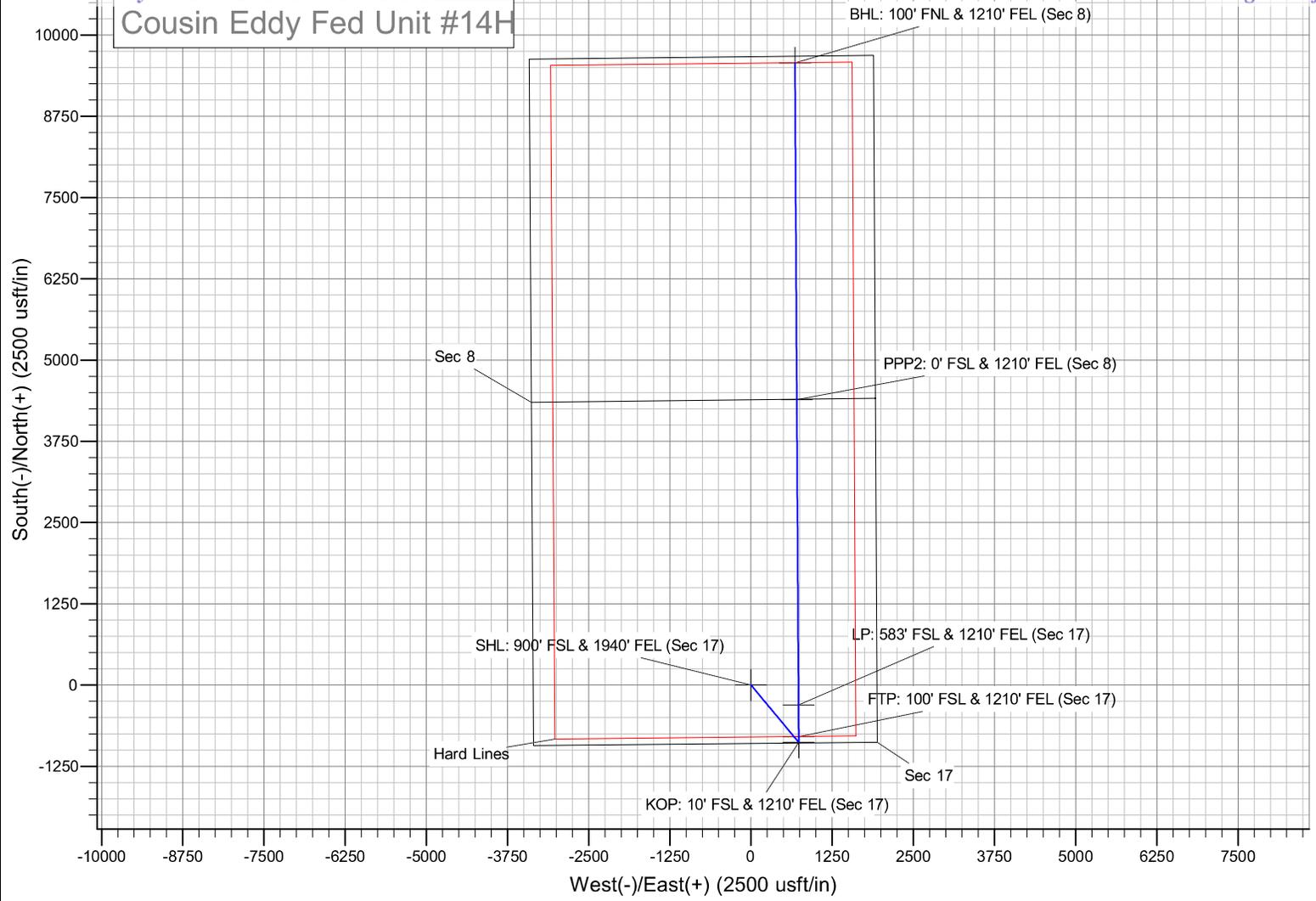
Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #14H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3667.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3667.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #14H	North Reference:	Grid
Well:	Sec 17, T21S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1210' FEL (Sec 8)		
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	90.17	359.68	11,640.3	8,469.0	683.0	8,496.1	0.00	0.00	0.00	
20,900.0	90.17	359.68	11,640.2	8,519.0	682.8	8,546.0	0.00	0.00	0.00	
20,950.0	90.17	359.68	11,640.0	8,569.0	682.5	8,595.8	0.00	0.00	0.00	
21,000.0	90.17	359.68	11,639.9	8,619.0	682.2	8,645.7	0.00	0.00	0.00	
21,050.0	90.17	359.68	11,639.7	8,669.0	681.9	8,695.5	0.00	0.00	0.00	
21,100.0	90.17	359.68	11,639.6	8,719.0	681.6	8,745.4	0.00	0.00	0.00	
21,150.0	90.17	359.68	11,639.4	8,769.0	681.4	8,795.3	0.00	0.00	0.00	
21,200.0	90.17	359.68	11,639.3	8,819.0	681.1	8,845.1	0.00	0.00	0.00	
21,250.0	90.17	359.68	11,639.1	8,869.0	680.8	8,895.0	0.00	0.00	0.00	
21,300.0	90.17	359.68	11,639.0	8,919.0	680.5	8,944.8	0.00	0.00	0.00	
21,350.0	90.17	359.68	11,638.8	8,969.0	680.3	8,994.7	0.00	0.00	0.00	
21,400.0	90.17	359.68	11,638.7	9,019.0	680.0	9,044.5	0.00	0.00	0.00	
21,450.0	90.17	359.68	11,638.5	9,069.0	679.7	9,094.4	0.00	0.00	0.00	
21,500.0	90.17	359.68	11,638.4	9,119.0	679.4	9,144.2	0.00	0.00	0.00	
21,550.0	90.17	359.68	11,638.2	9,169.0	679.1	9,194.1	0.00	0.00	0.00	
21,600.0	90.17	359.68	11,638.1	9,219.0	678.9	9,243.9	0.00	0.00	0.00	
21,650.0	90.17	359.68	11,637.9	9,269.0	678.6	9,293.8	0.00	0.00	0.00	
21,700.0	90.17	359.68	11,637.8	9,319.0	678.3	9,343.7	0.00	0.00	0.00	
21,750.0	90.17	359.68	11,637.6	9,369.0	678.0	9,393.5	0.00	0.00	0.00	
21,800.0	90.17	359.68	11,637.5	9,419.0	677.7	9,443.4	0.00	0.00	0.00	
21,850.0	90.17	359.68	11,637.3	9,469.0	677.5	9,493.2	0.00	0.00	0.00	
21,900.0	90.17	359.68	11,637.2	9,519.0	677.2	9,543.1	0.00	0.00	0.00	
21,950.0	90.17	359.68	11,637.0	9,569.0	676.9	9,592.9	0.00	0.00	0.00	
21,952.0	90.17	359.68	11,637.0	9,571.0	676.9	9,594.9	0.00	0.00	0.00	
BHL: 100' FNL & 1210' FEL (Sec 8)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL: 900' FSL & 1940' F - plan hits target center - Point	0.00	0.01	0.0	0.0	0.0	536,730.90	738,325.20	32.4739155	-103.6945629	
KOP: 10' FSL & 1210' FI - plan hits target center - Point	0.00	0.00	11,094.0	-882.3	735.1	535,848.60	739,060.30	32.4714783	-103.6921965	
FTP: 100' FSL & 1210' F - plan hits target center - Point	0.00	0.00	11,402.1	-792.4	734.6	535,938.50	739,059.80	32.4717254	-103.6921964	
BHL: 100' FNL & 1210' F - plan hits target center - Point	0.00	0.00	11,637.0	9,571.0	676.9	546,301.90	739,002.10	32.5002114	-103.6921815	
PPP2: 0' FSL & 1210' FE - plan hits target center - Point	0.00	0.00	11,652.7	4,391.2	705.7	541,122.10	739,030.94	32.4859736	-103.6921889	
LP: 583' FSL & 1210' FE - plan hits target center - Point	0.00	0.00	11,667.0	-309.3	731.9	536,421.55	739,057.10	32.4730531	-103.6921957	

Cousin Eddy Fed Unit #14H



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MEWBOURNE OIL COMPANY
WELL NAME & NO.: COUSIN EDDY FED UNIT 14H
APD ID: 10400104281
LOCATION: Section 17, T.21 S., R.32 E. NMP
COUNTY: Eddy County, New Mexico ▼

COA

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

A. HYDROGEN SULFIDE

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

APD is within the R-111-Q defined boundary. Operator must follow all applicable procedures and requirements listed within the Order No. R-111-Q.

B. CASING

Primary Casing Program

1. The 13-3/8 inch surface casing shall be set at approximately **1090** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **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 **4,420 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 shall be kept fluid-filled to meet BLM's minimum collapse design requirements.

3. Operator has proposed to set **7-inch HCP-110** production casing at approximately **11,171 ft.** (11,094 ft. TVD). The minimum required fill of cement behind the **7 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 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 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 (575-361-2822 Eddy 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 **4-1/2** inch production liner is:
- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Alternate Casing Program

1. The **13-3/8** inch surface casing shall be set at approximately **1090** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **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 **4,420 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 shall be kept fluid-filled to meet BLM's minimum collapse design requirements.

3. Operator has proposed to set **7-inch HCP-110** production casing at approximately **12,071 ft.** (11,667 ft. TVD). The minimum required fill of cement behind the **7** 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 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 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 (575-361-2822 Eddy 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 **4-1/2** 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 **Eddy County: 575-361-2822**.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi. Before drilling out surface casing shoe, BOP/ BOPE must 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 43 CFR 3172 must be followed.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has

not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. **(This is not necessary for secondary recovery unit wells)**

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the

components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of

API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)

- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

SA 06/13/2025

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: COUSIN EDDY FED UNIT

Well Number: 14H

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Description of cuttings location

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

Cuttings area liner

Cuttings area liner specifications and installation description

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 14H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

COUSIN_EDDY_FED_UNIT_14H_WellSiteLayout_20250402110404.pdf

Comments: None

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Cousin Eddy Fed Unit 9 10 11 12 13 14 15 16

Multiple Well Pad Number: 8

Recontouring

COUSIN_EDDY_FED_UNIT_14H_InterimReclamationmap_20250402110414.pdf

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

Well pad proposed disturbance (acres): 4.59

Well pad interim reclamation (acres): 1.16

Well pad long term disturbance (acres): 3.43

Road proposed disturbance (acres): 0.06

Road interim reclamation (acres): 0

Road long term disturbance (acres): 0

Powerline proposed disturbance (acres): 0

Powerline interim reclamation (acres): 0

Powerline long term disturbance (acres): 0

Pipeline proposed disturbance (acres): 1.3

Pipeline interim reclamation (acres): 0

Pipeline long term disturbance (acres): 0

Other proposed disturbance (acres): 0

Other interim reclamation (acres): 0

Other long term disturbance (acres): 0

Total proposed disturbance: 5.949999999999999

Total interim reclamation: 1.16

Total long term disturbance: 3.43

Disturbance Comments:

Reconstruction method: The area planned for interim reclamation will be recontured to the original contour if feasible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ration.

Topsoil redistribution: Topsoil will be evenly re-spread and aggressively revegetated over the entire disturbed area not needed for all weather operations including cuts & fills. To seed the area, proper BLM seed mixture, free of noxious weeds will be used.

Soil treatment: NA

Existing Vegetation at the well pad: Various brush & grasses

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 476018

ACKNOWLEDGMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 476018
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

<input type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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COMMENTS

Action 476018

COMMENTS

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	Action Number: 476018
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COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Submitted as defining well for spacing unit.	8/25/2025

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CONDITIONS

Action 476018

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
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CONDITIONS

Created By	Condition	Condition Date
mleal	Cement is required to circulate on both surface and intermediate1 strings of casing.	6/17/2025
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	6/17/2025
jeffrey.harrison	Administrative order required for non-standard spacing unit prior to production.	8/25/2025
jeffrey.harrison	This well is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the order.	8/25/2025
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.	8/25/2025
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.	8/25/2025
jeffrey.harrison	Any string of casing or liner that is not circulated to surface must have a minimum of 200' of cement tie-back into the previous string of casing.	8/25/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	8/25/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	8/25/2025
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	8/25/2025
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.	8/25/2025
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.	8/25/2025