

District I1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720**District II**811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720**District III**1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170**District IV**1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 374379

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241		2. OGRID Number 14744
		3. API Number 30-025-53756
4. Property Code 336420	5. Property Name HEREFORD 29 20 STATE COM	6. Well No. 401H

7. Surface Location

UL - Lot M	Section 29	Township 19S	Range 35E	Lot Idn M	Feet From 355	N/S Line S	Feet From 990	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot D	Section 20	Township 19S	Range 35E	Lot Idn D	Feet From 100	N/S Line N	Feet From 660	E/W Line W	County Lea
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9. Pool Information

SCHARB;BONE SPRING	55610
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3741
16. Multiple N	17. Proposed Depth 19923	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 10/20/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☐ We will be using a closed-loop system in lieu of lined pits**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1800	1260	0
Int1	12.25	9.625	36	3385	700	0
Int1	12.25	9.62	40	3450	700	0
Prod	8.75	7	26	9109	3030	3250
Prod	8.5	4.5	13.5	19923	3030	3250

Casing/Cement Program: Additional Comments

MOC proposed to drill & test the Bone Springs formation. H2S rule 118 does not apply because MOC has researched the area & no high concentrations were found. Will have on location & working all H2S safety equipment before Yates formation for safety & insurance purposes. Will stimulate as needed for production.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	SCHAFFER
Double Ram	5000	5000	SHCAFFER
Annular	5000	2500	SHCAFFER

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

OIL CONSERVATION DIVISION

Signature:

Printed Name: Electronically filed by Monty Whetstone

Title: Vice President Operations

Email Address: fking@mewbourne.com

Date: 10/2/2024

Phone: 903-561-2900

Approved By: Paul F Kautz

Title: Geologist

Approved Date: 10/22/2024

Expiration Date: 10/22/2026

Conditions of Approval Attached

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

WELL LOCATION INFORMATION

API Number	Pool Code 55610	Pool Name Scharb; Bone Spring
Property Code	Property Name HEREFORD 29/20 STATE COM	Well Number 401H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3741'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL M	Section 29	Township 19S	Range 35E	Lot	Ft. from N/S 355 FSL	Ft. from E/W 990 FWL	Latitude 32.6251367°N	Longitude 103.4848829°W	County LEA
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Bottom Hole Location

UL D	Section 20	Township 19S	Range 35E	Lot	Ft. from N/S 100 FNL	Ft. from E/W 660 FWL	Latitude 32.6530121°N	Longitude 103.4859218°W	County LEA
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Dedicated Acres 320	Infill or Defining Well Defining Well	Defining Well API NA	Overlapping Spacing Unit (Y/N) N	Consolidation Code NA
Order Numbers. NA			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL M	Section 29	Township 19S	Range 35E	Lot	Ft. from N/S 10 FSL	Ft. from E/W 660 FWL	Latitude 32.624189	Longitude -103.4859582	County Lea
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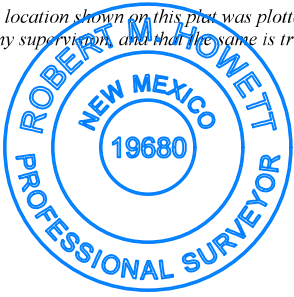
First Take Point (FTP)

UL M	Section 29	Township 19S	Range 35E	Lot	Ft. from N/S 100 FSL	Ft. from E/W 660 FWL	Latitude 32.6244364	Longitude -103.4859579	County Lea
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Last Take Point (LTP)

UL D	Section 20	Township 19S	Range 35E	Lot	Ft. from N/S 100 FNL	Ft. from E/W 660 FWL	Latitude 32.6530121	Longitude -103.4859218	County Lea
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Unitized Area or Area of Uniform Interest NA	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3769
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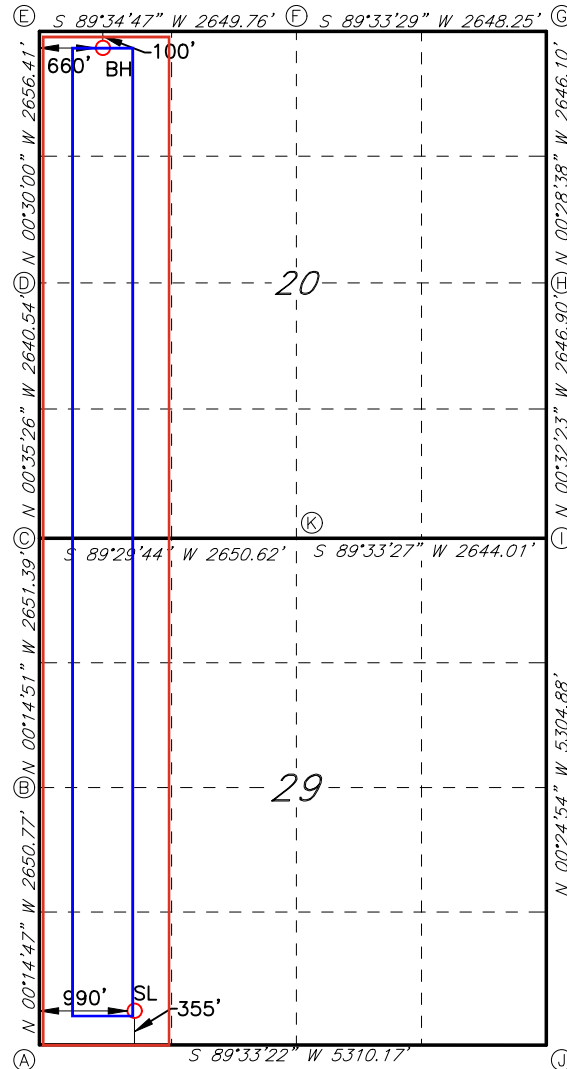
OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> <i>Ryan McDaniel</i> 9/30/24 Signature Date Ryan McDaniel Printed Name RyanMcDaniel@Mewbourne.com Email Address		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief.</i>  Signature and Seal of Professional Surveyor <i>Robert M. Howett</i> Certificate Number 19680 Date of Survey 09/23/2024	
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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.

HEREFORD 29/20 STATE COM #401H



CORNER DATA

NAD 83 GRID - NM EAST

GEODETTIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)
N: 592198.3 - E: 802550.9

LAT: 32.6251367° N
LONG: 103.4848829° W

BOTTOM HOLE (BH)
N: 602337.4 - E: 802150.2

LAT: 32.6530121° N
LONG: 103.4859218° W

A: FOUND 2" STEEL PIPE
N: 591835.8 - E: 801562.7

B: FOUND 1/2" REBAR
N: 594486.0 - E: 801551.3

C: FOUND 5/8" REBAR
N: 597136.9 - E: 801539.8

D: FOUND 8"x4"x4" LIMESTONE ROCK
N: 599776.8 - E: 801512.6

E: FOUND LIMESTONE ROCK
N: 602432.6 - E: 801489.4

F: FOUND 1/2" REBAR
N: 602452.0 - E: 804138.6

G: FOUND 5/8" REBAR
N: 602472.4 - E: 806786.3

H: FOUND 6"x4"x4" LIMESTONE ROCK
N: 599826.9 - E: 806808.3

I: FOUND 1/2" REBAR
N: 597180.6 - E: 806833.3

J: FOUND 1/2" REBAR
N: 591876.9 - E: 806871.7

K: FOUND 8"x2"x4" LIMESTONE ROCK
N: 597160.2 - E: 804189.8

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

Form APD Conditions

Permit 374379

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241	API Number: 30-025-53756
	Well: HEREFORD 29 20 STATE COM #401H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	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
pkautz	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
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
pkautz	If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well
pkautz	Pit construction and closure must satisfy all requirements of your approved plan



Mewbourne Oil Co.

BOP Break Testing Variance

Mewbourne Oil Company requests a variance from the minimum standards for well control equipment testing of 43 CFR 3172 to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with batch drilling & offline cementing operations. Modern rig upgrades which facilitate pad drilling allow the BOP stack to be moved between wells on a multi-well pad without breaking any BOP stack components apart. Widespread use of these technologies has led to break testing BOPE being endorsed as safe and reliable. American Petroleum Institute (API) best practices are frequently used by regulators to develop their regulations. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (5th Ed., Dec. 2018) Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component."

Procedures

1. Full BOPE test at first installation on the pad.
 - Full BOPE test at least every 21 days.
 - Function test BOP elements per 43 CFR 3172.
 - Contact the BLM if a well control event occurs.
2. After the well section is secured and the well is confirmed to be static, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. Two breaks on the BOPE will be made (Fig. 1).
 - Connection between the flex line and the HCR valve
 - Connection between the wellhead and the BOP quick connect (Fig. 5 & 6).
3. A capping flange will be installed after cementing per wellhead vendor procedure & casing pressure will be monitored via wellhead valve.
4. The BOP will be removed and carried by a hydraulic carrier (Fig. 3 & 4).
5. The rig will then walk to the next well.
6. Confirm that the well is static and remove the capping flange.
7. The connection between the flex line and HCR valve and the connection between the wellhead and the BOP quick connect will be reconnected.
8. Install a test plug into the wellhead.
9. A test will then be conducted against the upper pipe rams and choke, testing both breaks (Fig. 1 & 2).
10. The test will be held at 250 psi low and to the high value submitted in the APD, not to exceed 5000 psi.
11. The annular, blind rams and lower pipe rams will then be function tested.
12. If a pad consists of three or more wells, steps 4 through 11 will be repeated.



13. A break test will only be conducted if the intermediate section can be drilled and cased within 21 days of the last full BOPE test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool and/or cement head
- Capping flange after cementing

Summary

A variance is requested to only test broken pressure seals on the BOPE when moving between wells on a multi-well pad if the following conditions are met:

- A full BOPE test is conducted on the first well on the pad. API Standard 53 requires testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater.
- If the first well on the pad is not the well with the deepest intermediate section, a full BOPE test will also be performed when moving to a deeper well.
- The hole section being drilled has a MASP under 5000 psi.
- If a well control event occurs, Mewbourne will contact BLM for permission to continue break testing.
- If significant (>50%) losses occur, full BOPE testing will be required going forward.
- Full BOPE test will be required prior to drilling the production hole.

While walking the rig, the BOP stack will be secured via hydraulic winch or hydraulic carrier. A full BOPE test will be performed at least every 21 days.

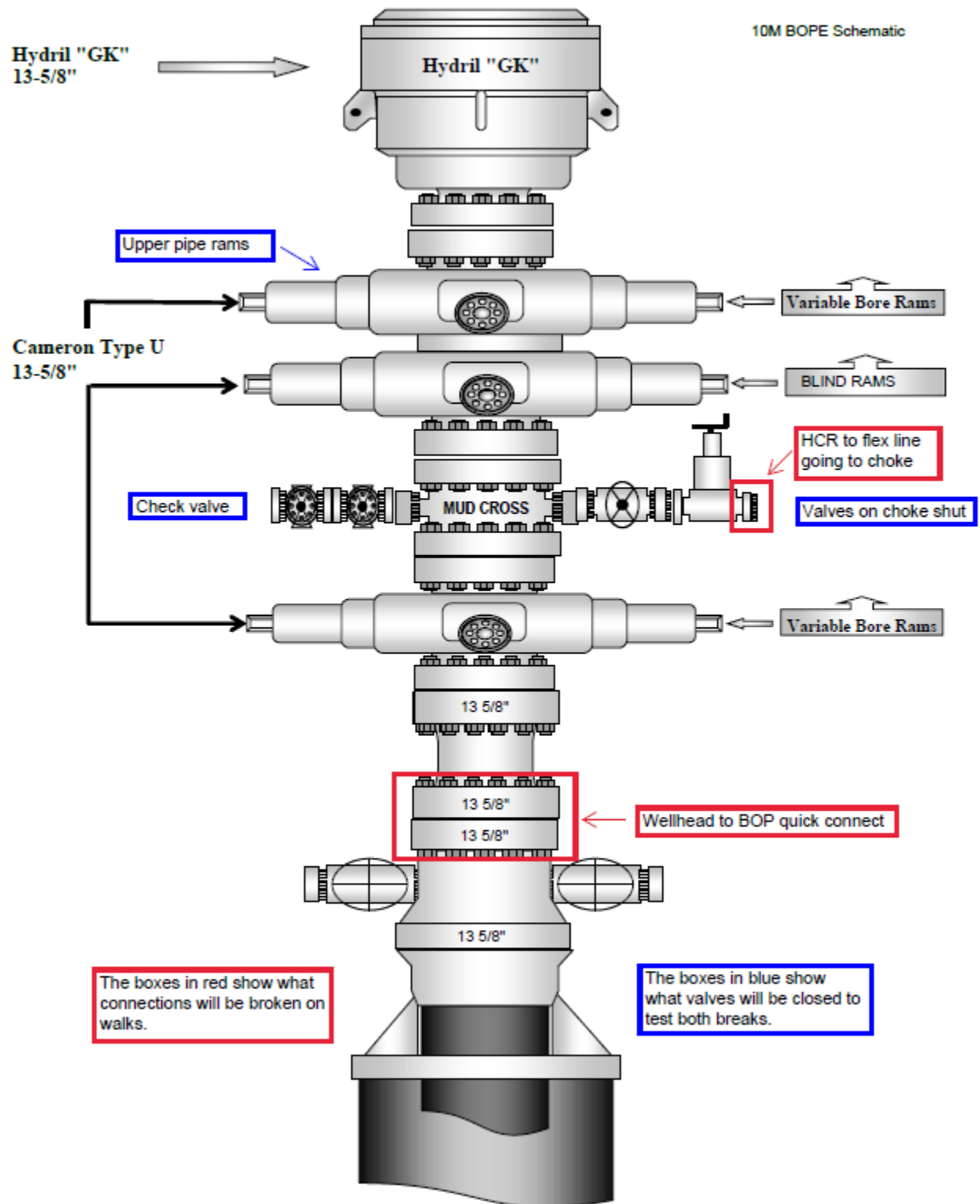


Figure 1. BOP diagram



5M BOPE & Closed Loop Equipment Schematic

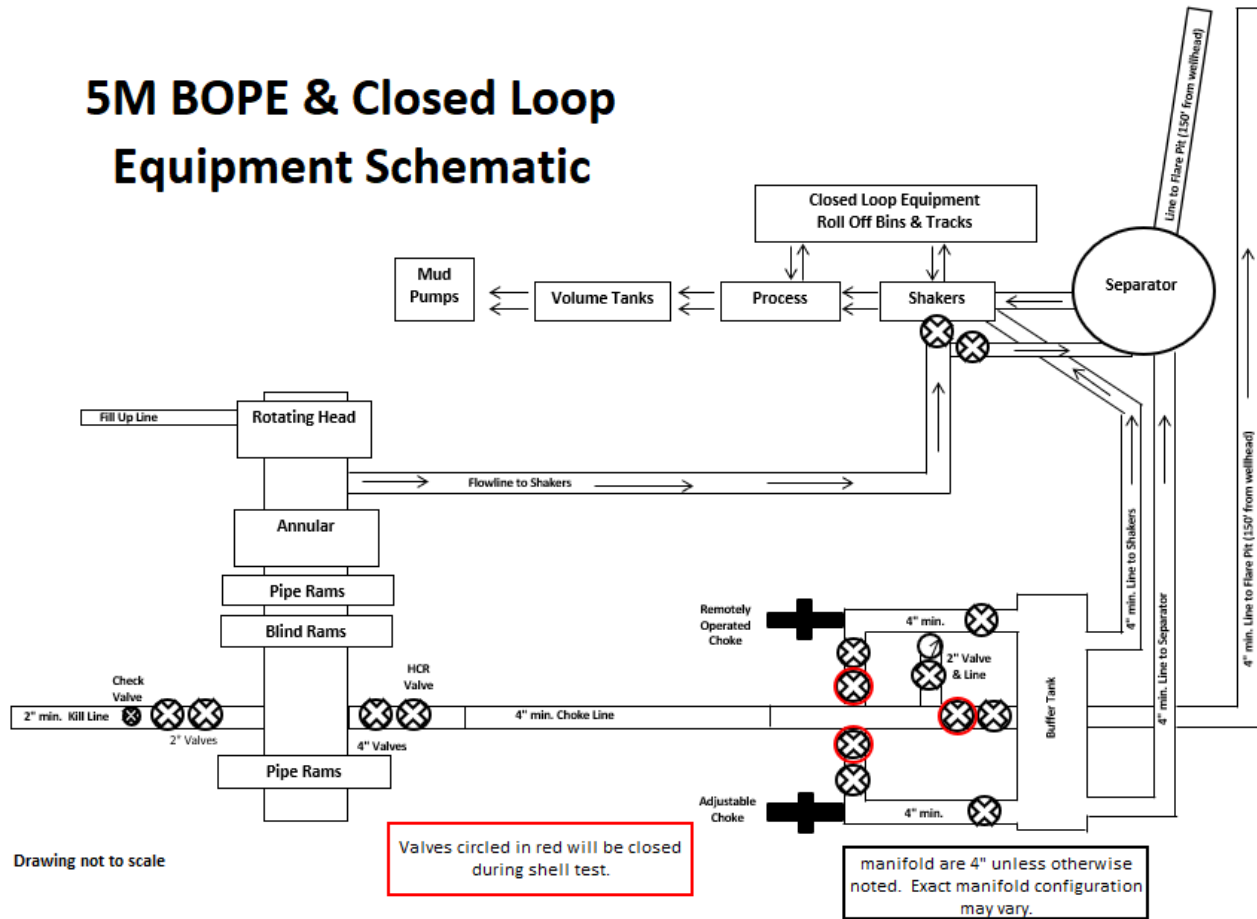


Figure 2. BOPE diagram



Figure 3. BOP handling system



Figure 4. BOP handling system

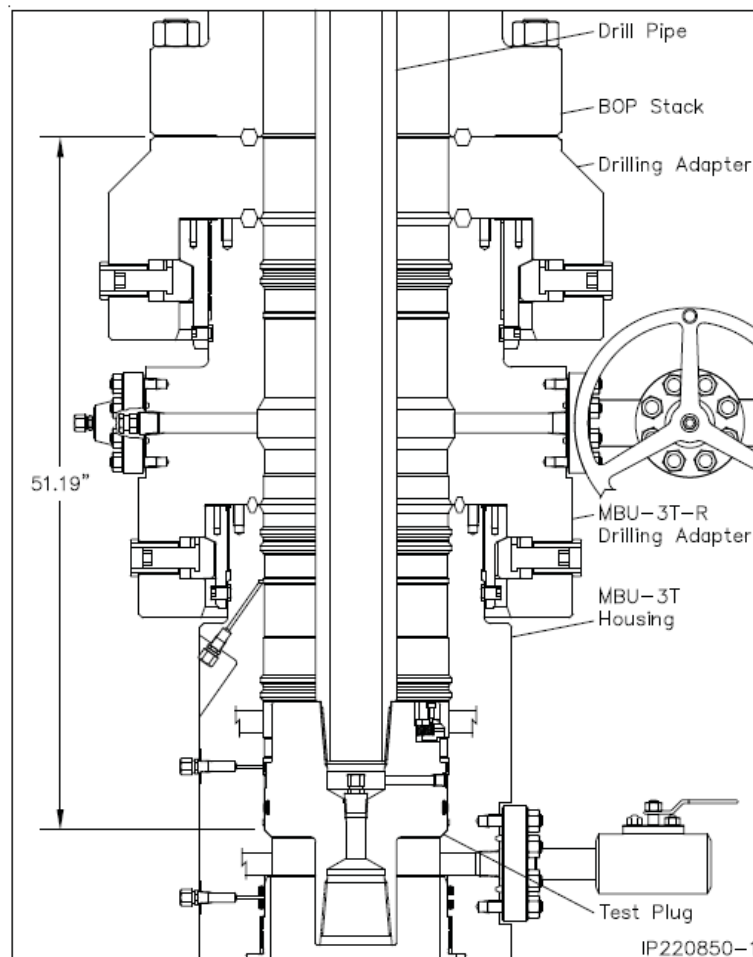


Figure 5. Cactus 5M wellhead with BOP quick connect

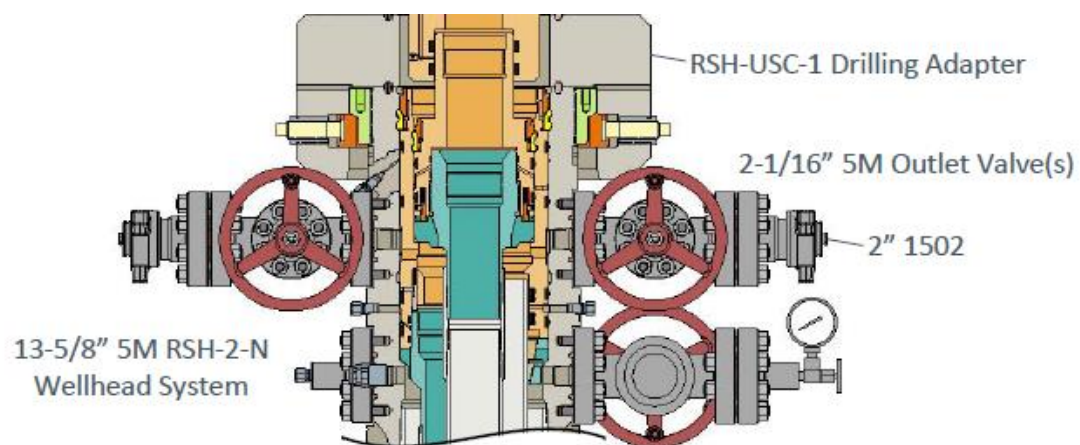


Figure 6. Vault 5M wellhead with BOP quick connect

Mewbourne Oil Company, Hereford 20/29 State Com 401H

Sec 29, T19S, R35E

SHL: 355' FSL 990' FWL (Sec 29)

BHL: 100' FNL 660' FWL (Sec 20)

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Hereford 20/29 State Com	401H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	29	19S	35E	-	10'	FSL	660'	FWL	Lea
Latitude					Longitude			NAD	
32.624189					-103.4859582			83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	29	19S	35E	-	100'	FSL	660'	FWL	Lea
Latitude					Longitude			NAD	
32.6244364					-103.4859579			83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	20	19S	35E	-	100'	FNL	660'	FWL	Lea
Latitude					Longitude			NAD	
32.6530121					-103.4859218			83	

Is this well the defining well for the Horizontal Spacing Unit?

Y

Is this well an infill well?

N

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

API #

Operator Name:	Property Name:	Well Number

State of New Mexico
Energy, Minerals and Natural Resources DepartmentSubmit Electronically
Via E-permittingOil 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:** 10/2/2024**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
HEREFORD 29/20 STATE COM 401H		M 29 19S 35E	355' FSL x 990' FWL	1500	1500	4500
				Y1-300 Y2-200 Y3-100	Y1-400 Y2-300 Y3-100	Y1-600 Y2-400 Y3-200

IV. Central Delivery Point Name: HEREFORD 29/20 STATE COM 401H [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
HEREFORD 29/20 STATE COM 401H		2/2/25	3/2/25	4/2/25	4/17/25	4/22/25

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications**Effective May 25, 2021**

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

Page 8

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

Signature:	<i>Bradley Bishop</i>
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	10/2/2024
Phone:	575-393-5905
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

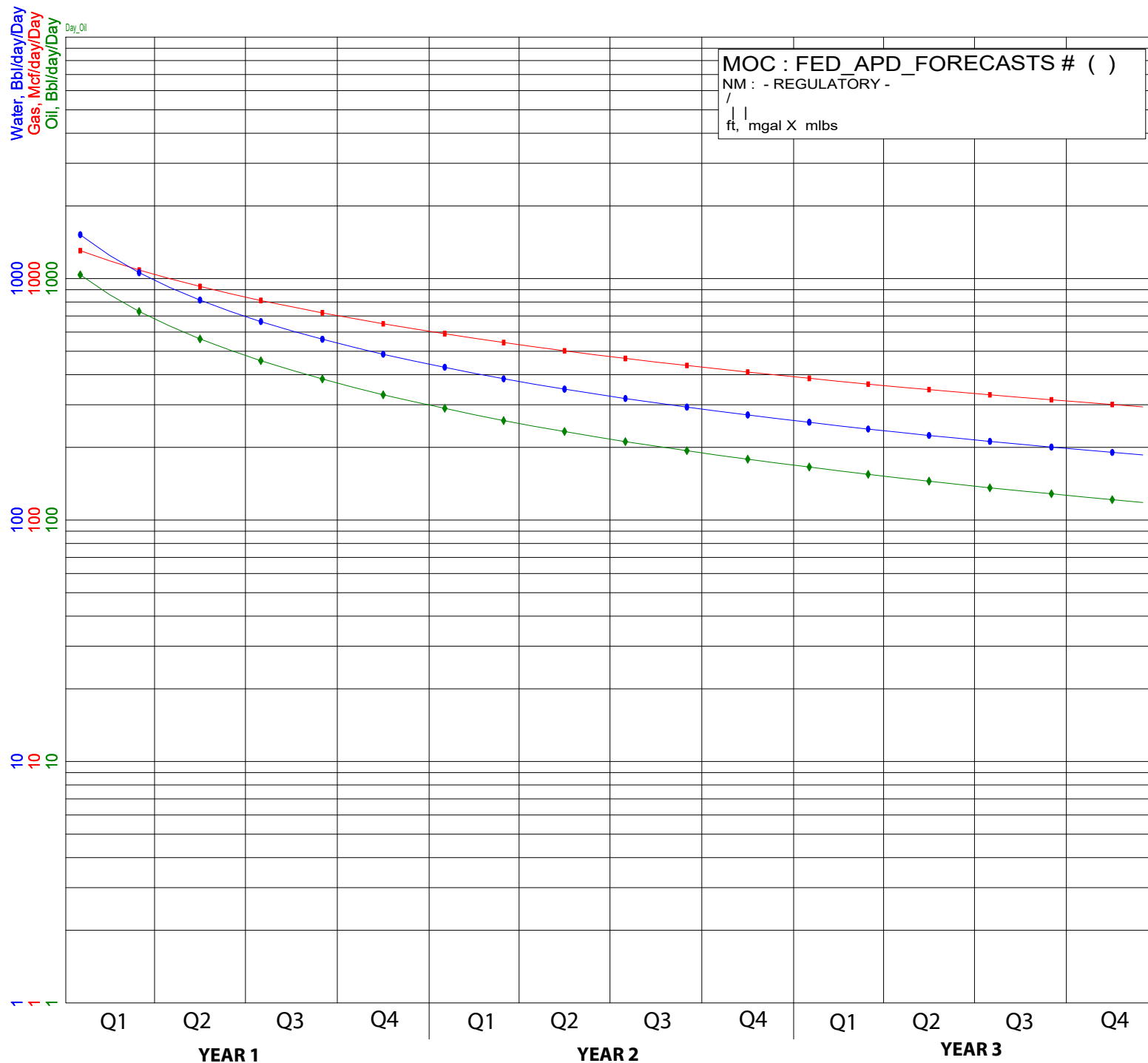
Mewbourne Oil Company

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.



Oil, Bbl/day	◆
Qual=	LEABS2.0
Ref=	1/2025
Cum=	0
Rem=	332092
EUR=	332092
Yrs=	3.000
Qi=	1150.0
b=	0.950000
De=	74.000000
Df=	23.848091
Qab=	116.7

Gas, Mcf/day	■
Qual=	LEABS2.0
Ref=	1/2025
Cum=	0
Rem=	621833
EUR=	621833
Yrs=	3.000
Qi=	1375.0
b=	1.050000
De=	56.000000
Df=	20.240305
Qab=	291.1

Water, Bbl/d	●
Qual=	LEABS2.0
Ref=	1/2025
Cum=	0
Rem=	492387
EUR=	492387
Yrs=	3.000
Qi=	1700.0
b=	1.050000
De=	74.000000
Df=	22.172770
Qab=	183.7

Mewbourne Oil Company

Lea County, New Mexico NAD 83

Hereford 29/20 State Com #401H

Sec 29, T19S, R35E

SHL: 355' FSL & 990' FWL (Sec 29)

BHL: 100' FNL & 660' FWL (Sec 20)

Plan: Design #1

Standard Planning Report

30 September, 2024

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Hereford 29/20 State Com #401H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3769.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3769.0usft (Original Well Elev)
Site:	Hereford 29/20 State Com #401H	North Reference:	Grid
Well:	Sec 29, T19S, R35E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 660' FWL (Sec 20)		
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		Hereford 29/20 State Com #401H									
Site Position:		Northing:		592,198.30 usft		Latitude:		32.6251366			
From:		Map		Easting:		802,550.90 usft		Longitude:		-103.4848830	
Position Uncertainty:		0.0 usft		Slot Radius:		13-3/16 "					

Well	Sec 29, T19S, R35E					
Well Position	+N/-S	0.0 usft	Northing:	592,198.30 usft	Latitude:	32.6251366
	+E/-W	0.0 usft	Easting:	802,550.90 usft	Longitude:	-103.4848830
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,769.0 usft	Ground Level:	3,741.0 usft
Grid Convergence:		0.46 °				

Wellbore	BHL: 100' FNL & 660' FWL (Sec 20)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.14	60.48	48,509.45724698

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	357.74

Plan Survey Tool Program	Date	9/30/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,922.5	Design #1 (BHL: 100' FNL & 660'	

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	
153.0	3.06	223.38	152.9	-3.0	-2.8	2.00	2.00	0.00	223.38	
8,955.7	3.06	223.38	8,943.1	-344.4	-325.5	0.00	0.00	0.00	0.00	
9,108.7	0.00	0.00	9,096.0	-347.4	-328.3	2.00	-2.00	0.00	180.00	KOP: 10' FSL & 660' I
10,009.9	90.12	359.60	9,669.0	226.7	-332.3	10.00	10.00	0.00	-0.40	
19,922.5	90.12	359.60	9,649.0	10,139.1	-400.7	0.00	0.00	0.00	0.00	BHL: 100' FNL & 660'

Planning Report

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Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3769.0usft (Original Well Elev)
Site:	Hereford 29/20 State Com #401H	North Reference:	Grid
Well:	Sec 29, T19S, R35E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 660' FWL (Sec 20)		
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: 355' FSL & 990' FWL (Sec 29)									
100.0	2.00	223.38	100.0	-1.3	-1.2	-1.2	2.00	2.00	0.00
153.0	3.06	223.38	152.9	-3.0	-2.8	-2.9	2.00	2.00	0.00
200.0	3.06	223.38	199.9	-4.8	-4.5	-4.6	0.00	0.00	0.00
300.0	3.06	223.38	299.7	-8.7	-8.2	-8.3	0.00	0.00	0.00
400.0	3.06	223.38	399.6	-12.6	-11.9	-12.1	0.00	0.00	0.00
500.0	3.06	223.38	499.4	-16.4	-15.5	-15.8	0.00	0.00	0.00
600.0	3.06	223.38	599.3	-20.3	-19.2	-19.5	0.00	0.00	0.00
700.0	3.06	223.38	699.1	-24.2	-22.9	-23.3	0.00	0.00	0.00
800.0	3.06	223.38	799.0	-28.1	-26.5	-27.0	0.00	0.00	0.00
900.0	3.06	223.38	898.9	-31.9	-30.2	-30.7	0.00	0.00	0.00
1,000.0	3.06	223.38	998.7	-35.8	-33.9	-34.5	0.00	0.00	0.00
1,100.0	3.06	223.38	1,098.6	-39.7	-37.5	-38.2	0.00	0.00	0.00
1,200.0	3.06	223.38	1,198.4	-43.6	-41.2	-41.9	0.00	0.00	0.00
1,300.0	3.06	223.38	1,298.3	-47.5	-44.9	-45.7	0.00	0.00	0.00
1,400.0	3.06	223.38	1,398.1	-51.3	-48.5	-49.4	0.00	0.00	0.00
1,500.0	3.06	223.38	1,498.0	-55.2	-52.2	-53.1	0.00	0.00	0.00
1,600.0	3.06	223.38	1,597.9	-59.1	-55.8	-56.8	0.00	0.00	0.00
1,700.0	3.06	223.38	1,697.7	-63.0	-59.5	-60.6	0.00	0.00	0.00
1,800.0	3.06	223.38	1,797.6	-66.9	-63.2	-64.3	0.00	0.00	0.00
1,900.0	3.06	223.38	1,897.4	-70.7	-66.8	-68.0	0.00	0.00	0.00
2,000.0	3.06	223.38	1,997.3	-74.6	-70.5	-71.8	0.00	0.00	0.00
2,100.0	3.06	223.38	2,097.2	-78.5	-74.2	-75.5	0.00	0.00	0.00
2,200.0	3.06	223.38	2,197.0	-82.4	-77.8	-79.2	0.00	0.00	0.00
2,300.0	3.06	223.38	2,296.9	-86.3	-81.5	-83.0	0.00	0.00	0.00
2,400.0	3.06	223.38	2,396.7	-90.1	-85.2	-86.7	0.00	0.00	0.00
2,500.0	3.06	223.38	2,496.6	-94.0	-88.8	-90.4	0.00	0.00	0.00
2,600.0	3.06	223.38	2,596.4	-97.9	-92.5	-94.2	0.00	0.00	0.00
2,700.0	3.06	223.38	2,696.3	-101.8	-96.2	-97.9	0.00	0.00	0.00
2,800.0	3.06	223.38	2,796.2	-105.6	-99.8	-101.6	0.00	0.00	0.00
2,900.0	3.06	223.38	2,896.0	-109.5	-103.5	-105.4	0.00	0.00	0.00
3,000.0	3.06	223.38	2,995.9	-113.4	-107.2	-109.1	0.00	0.00	0.00
3,100.0	3.06	223.38	3,095.7	-117.3	-110.8	-112.8	0.00	0.00	0.00
3,200.0	3.06	223.38	3,195.6	-121.2	-114.5	-116.5	0.00	0.00	0.00
3,300.0	3.06	223.38	3,295.4	-125.0	-118.2	-120.3	0.00	0.00	0.00
3,400.0	3.06	223.38	3,395.3	-128.9	-121.8	-124.0	0.00	0.00	0.00
3,500.0	3.06	223.38	3,495.2	-132.8	-125.5	-127.7	0.00	0.00	0.00
3,600.0	3.06	223.38	3,595.0	-136.7	-129.2	-131.5	0.00	0.00	0.00
3,700.0	3.06	223.38	3,694.9	-140.6	-132.8	-135.2	0.00	0.00	0.00
3,800.0	3.06	223.38	3,794.7	-144.4	-136.5	-138.9	0.00	0.00	0.00
3,900.0	3.06	223.38	3,894.6	-148.3	-140.2	-142.7	0.00	0.00	0.00
4,000.0	3.06	223.38	3,994.4	-152.2	-143.8	-146.4	0.00	0.00	0.00
4,100.0	3.06	223.38	4,094.3	-156.1	-147.5	-150.1	0.00	0.00	0.00
4,200.0	3.06	223.38	4,194.2	-160.0	-151.2	-153.9	0.00	0.00	0.00
4,300.0	3.06	223.38	4,294.0	-163.8	-154.8	-157.6	0.00	0.00	0.00
4,400.0	3.06	223.38	4,393.9	-167.7	-158.5	-161.3	0.00	0.00	0.00
4,500.0	3.06	223.38	4,493.7	-171.6	-162.2	-165.1	0.00	0.00	0.00
4,600.0	3.06	223.38	4,593.6	-175.5	-165.8	-168.8	0.00	0.00	0.00
4,700.0	3.06	223.38	4,693.4	-179.4	-169.5	-172.5	0.00	0.00	0.00
4,800.0	3.06	223.38	4,793.3	-183.2	-173.2	-176.2	0.00	0.00	0.00
4,900.0	3.06	223.38	4,893.2	-187.1	-176.8	-180.0	0.00	0.00	0.00
5,000.0	3.06	223.38	4,993.0	-191.0	-180.5	-183.7	0.00	0.00	0.00
5,100.0	3.06	223.38	5,092.9	-194.9	-184.2	-187.4	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Hereford 29/20 State Com #401H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3769.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3769.0usft (Original Well Elev)
Site:	Hereford 29/20 State Com #401H	North Reference:	Grid
Well:	Sec 29, T19S, R35E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 660' FWL (Sec 20)		
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)
5,200.0	3.06	223.38	5,192.7	-198.7	-187.8	-191.2	0.00	0.00	0.00
5,300.0	3.06	223.38	5,292.6	-202.6	-191.5	-194.9	0.00	0.00	0.00
5,400.0	3.06	223.38	5,392.4	-206.5	-195.1	-198.6	0.00	0.00	0.00
5,500.0	3.06	223.38	5,492.3	-210.4	-198.8	-202.4	0.00	0.00	0.00
5,600.0	3.06	223.38	5,592.2	-214.3	-202.5	-206.1	0.00	0.00	0.00
5,700.0	3.06	223.38	5,692.0	-218.1	-206.1	-209.8	0.00	0.00	0.00
5,800.0	3.06	223.38	5,791.9	-222.0	-209.8	-213.6	0.00	0.00	0.00
5,900.0	3.06	223.38	5,891.7	-225.9	-213.5	-217.3	0.00	0.00	0.00
6,000.0	3.06	223.38	5,991.6	-229.8	-217.1	-221.0	0.00	0.00	0.00
6,100.0	3.06	223.38	6,091.5	-233.7	-220.8	-224.8	0.00	0.00	0.00
6,200.0	3.06	223.38	6,191.3	-237.5	-224.5	-228.5	0.00	0.00	0.00
6,300.0	3.06	223.38	6,291.2	-241.4	-228.1	-232.2	0.00	0.00	0.00
6,400.0	3.06	223.38	6,391.0	-245.3	-231.8	-235.9	0.00	0.00	0.00
6,500.0	3.06	223.38	6,490.9	-249.2	-235.5	-239.7	0.00	0.00	0.00
6,600.0	3.06	223.38	6,590.7	-253.1	-239.1	-243.4	0.00	0.00	0.00
6,700.0	3.06	223.38	6,690.6	-256.9	-242.8	-247.1	0.00	0.00	0.00
6,800.0	3.06	223.38	6,790.5	-260.8	-246.5	-250.9	0.00	0.00	0.00
6,900.0	3.06	223.38	6,890.3	-264.7	-250.1	-254.6	0.00	0.00	0.00
7,000.0	3.06	223.38	6,990.2	-268.6	-253.8	-258.3	0.00	0.00	0.00
7,100.0	3.06	223.38	7,090.0	-272.4	-257.5	-262.1	0.00	0.00	0.00
7,200.0	3.06	223.38	7,189.9	-276.3	-261.1	-265.8	0.00	0.00	0.00
7,300.0	3.06	223.38	7,289.7	-280.2	-264.8	-269.5	0.00	0.00	0.00
7,400.0	3.06	223.38	7,389.6	-284.1	-268.5	-273.3	0.00	0.00	0.00
7,500.0	3.06	223.38	7,489.5	-288.0	-272.1	-277.0	0.00	0.00	0.00
7,600.0	3.06	223.38	7,589.3	-291.8	-275.8	-280.7	0.00	0.00	0.00
7,700.0	3.06	223.38	7,689.2	-295.7	-279.5	-284.5	0.00	0.00	0.00
7,800.0	3.06	223.38	7,789.0	-299.6	-283.1	-288.2	0.00	0.00	0.00
7,900.0	3.06	223.38	7,888.9	-303.5	-286.8	-291.9	0.00	0.00	0.00
8,000.0	3.06	223.38	7,988.7	-307.4	-290.5	-295.6	0.00	0.00	0.00
8,100.0	3.06	223.38	8,088.6	-311.2	-294.1	-299.4	0.00	0.00	0.00
8,200.0	3.06	223.38	8,188.5	-315.1	-297.8	-303.1	0.00	0.00	0.00
8,300.0	3.06	223.38	8,288.3	-319.0	-301.5	-306.8	0.00	0.00	0.00
8,400.0	3.06	223.38	8,388.2	-322.9	-305.1	-310.6	0.00	0.00	0.00
8,500.0	3.06	223.38	8,488.0	-326.8	-308.8	-314.3	0.00	0.00	0.00
8,600.0	3.06	223.38	8,587.9	-330.6	-312.5	-318.0	0.00	0.00	0.00
8,700.0	3.06	223.38	8,687.7	-334.5	-316.1	-321.8	0.00	0.00	0.00
8,800.0	3.06	223.38	8,787.6	-338.4	-319.8	-325.5	0.00	0.00	0.00
8,900.0	3.06	223.38	8,887.5	-342.3	-323.5	-329.2	0.00	0.00	0.00
8,955.7	3.06	223.38	8,943.1	-344.4	-325.5	-331.3	0.00	0.00	0.00
9,000.0	2.17	223.38	8,987.3	-345.9	-326.9	-332.7	2.00	-2.00	0.00
9,108.7	0.00	0.00	9,096.0	-347.4	-328.3	-334.2	2.00	-2.00	0.00
KOP: 10' FSL & 660' FWL (Sec 29)									
9,150.0	4.13	359.60	9,137.3	-345.9	-328.3	-332.7	10.00	10.00	0.00
9,200.0	9.13	359.60	9,186.9	-340.1	-328.4	-326.9	10.00	10.00	0.00
9,250.0	14.13	359.60	9,235.9	-330.1	-328.4	-316.8	10.00	10.00	0.00
9,300.0	19.13	359.60	9,283.8	-315.8	-328.5	-302.5	10.00	10.00	0.00
9,350.0	24.13	359.60	9,330.2	-297.3	-328.6	-284.1	10.00	10.00	0.00
9,400.0	29.13	359.60	9,374.9	-274.9	-328.8	-261.7	10.00	10.00	0.00
9,434.2	32.55	359.60	9,404.3	-257.4	-328.9	-244.2	10.00	10.00	0.00
FTP: 100' FSL & 660' FWL (Sec 29)									
9,450.0	34.13	359.60	9,417.5	-248.7	-329.0	-235.5	10.00	10.00	0.00
9,500.0	39.13	359.60	9,457.6	-218.9	-329.2	-205.7	10.00	10.00	0.00
9,550.0	44.13	359.60	9,495.0	-185.7	-329.4	-172.5	10.00	10.00	0.00
9,600.0	49.13	359.60	9,529.3	-149.4	-329.7	-136.2	10.00	10.00	0.00

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Wellbore:	BHL: 100' FNL & 660' FWL (Sec 20)		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,650.0	54.13	359.60	9,560.3	-110.2	-329.9	-97.1	10.00	10.00	0.00
9,700.0	59.13	359.60	9,587.8	-68.4	-330.2	-55.3	10.00	10.00	0.00
9,750.0	64.13	359.60	9,611.6	-24.5	-330.5	-11.4	10.00	10.00	0.00
9,800.0	69.13	359.60	9,631.4	21.4	-330.8	34.5	10.00	10.00	0.00
9,850.0	74.13	359.60	9,647.1	68.9	-331.2	81.9	10.00	10.00	0.00
9,900.0	79.12	359.60	9,658.7	117.5	-331.5	130.5	10.00	10.00	0.00
9,950.0	84.12	359.60	9,666.0	166.9	-331.9	179.9	10.00	10.00	0.00
10,000.0	89.12	359.60	9,668.9	216.8	-332.2	229.8	10.00	10.00	0.00
10,008.8	90.00	359.60	9,669.0	225.6	-332.3	238.5	10.00	10.00	0.00
LP: 473' FSL & 660' FWL (Sec 29)									
10,009.9	90.12	359.60	9,669.0	226.7	-332.3	239.7	10.00	10.00	0.00
10,100.0	90.12	359.60	9,668.8	316.8	-332.9	329.7	0.00	0.00	0.00
10,200.0	90.12	359.60	9,668.6	416.8	-333.6	429.7	0.00	0.00	0.00
10,300.0	90.12	359.60	9,668.4	516.8	-334.3	529.6	0.00	0.00	0.00
10,400.0	90.12	359.60	9,668.2	616.8	-335.0	629.6	0.00	0.00	0.00
10,500.0	90.12	359.60	9,668.0	716.8	-335.6	729.5	0.00	0.00	0.00
10,600.0	90.12	359.60	9,667.8	816.8	-336.3	829.5	0.00	0.00	0.00
10,700.0	90.12	359.60	9,667.6	916.8	-337.0	929.4	0.00	0.00	0.00
10,800.0	90.12	359.60	9,667.4	1,016.8	-337.7	1,029.4	0.00	0.00	0.00
10,900.0	90.12	359.60	9,667.2	1,116.8	-338.4	1,129.3	0.00	0.00	0.00
11,000.0	90.12	359.60	9,667.0	1,216.8	-339.1	1,229.2	0.00	0.00	0.00
11,100.0	90.12	359.60	9,666.8	1,316.8	-339.8	1,329.2	0.00	0.00	0.00
11,200.0	90.12	359.60	9,666.6	1,416.8	-340.5	1,429.1	0.00	0.00	0.00
11,300.0	90.12	359.60	9,666.4	1,516.8	-341.2	1,529.1	0.00	0.00	0.00
11,400.0	90.12	359.60	9,666.2	1,616.8	-341.9	1,629.0	0.00	0.00	0.00
11,500.0	90.12	359.60	9,666.0	1,716.8	-342.6	1,729.0	0.00	0.00	0.00
11,600.0	90.12	359.60	9,665.8	1,816.8	-343.2	1,828.9	0.00	0.00	0.00
11,700.0	90.12	359.60	9,665.6	1,916.8	-343.9	1,928.9	0.00	0.00	0.00
11,800.0	90.12	359.60	9,665.4	2,016.8	-344.6	2,028.8	0.00	0.00	0.00
11,900.0	90.12	359.60	9,665.2	2,116.8	-345.3	2,128.8	0.00	0.00	0.00
12,000.0	90.12	359.60	9,665.0	2,216.8	-346.0	2,228.7	0.00	0.00	0.00
12,100.0	90.12	359.60	9,664.8	2,316.8	-346.7	2,328.7	0.00	0.00	0.00
12,200.0	90.12	359.60	9,664.6	2,416.8	-347.4	2,428.6	0.00	0.00	0.00
12,300.0	90.12	359.60	9,664.4	2,516.8	-348.1	2,528.6	0.00	0.00	0.00
12,400.0	90.12	359.60	9,664.2	2,616.8	-348.8	2,628.5	0.00	0.00	0.00
12,500.0	90.12	359.60	9,664.0	2,716.8	-349.5	2,728.4	0.00	0.00	0.00
12,600.0	90.12	359.60	9,663.8	2,816.8	-350.1	2,828.4	0.00	0.00	0.00
12,700.0	90.12	359.60	9,663.6	2,916.8	-350.8	2,928.3	0.00	0.00	0.00
12,800.0	90.12	359.60	9,663.4	3,016.8	-351.5	3,028.3	0.00	0.00	0.00
12,900.0	90.12	359.60	9,663.2	3,116.8	-352.2	3,128.2	0.00	0.00	0.00
13,000.0	90.12	359.60	9,663.0	3,216.8	-352.9	3,228.2	0.00	0.00	0.00
13,100.0	90.12	359.60	9,662.8	3,316.7	-353.6	3,328.1	0.00	0.00	0.00
13,200.0	90.12	359.60	9,662.6	3,416.7	-354.3	3,428.1	0.00	0.00	0.00
13,300.0	90.12	359.60	9,662.4	3,516.7	-355.0	3,528.0	0.00	0.00	0.00
13,400.0	90.12	359.60	9,662.2	3,616.7	-355.7	3,628.0	0.00	0.00	0.00
13,500.0	90.12	359.60	9,662.0	3,716.7	-356.4	3,727.9	0.00	0.00	0.00
13,600.0	90.12	359.60	9,661.8	3,816.7	-357.0	3,827.9	0.00	0.00	0.00
13,700.0	90.12	359.60	9,661.6	3,916.7	-357.7	3,927.8	0.00	0.00	0.00
13,800.0	90.12	359.60	9,661.4	4,016.7	-358.4	4,027.8	0.00	0.00	0.00
13,900.0	90.12	359.60	9,661.2	4,116.7	-359.1	4,127.7	0.00	0.00	0.00
14,000.0	90.12	359.60	9,660.9	4,216.7	-359.8	4,227.6	0.00	0.00	0.00
14,100.0	90.12	359.60	9,660.7	4,316.7	-360.5	4,327.6	0.00	0.00	0.00
14,200.0	90.12	359.60	9,660.5	4,416.7	-361.2	4,427.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Hereford 29/20 State Com #401H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3769.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3769.0usft (Original Well Elev)
Site:	Hereford 29/20 State Com #401H	North Reference:	Grid
Well:	Sec 29, T19S, R35E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 660' FWL (Sec 20)		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,300.0	90.12	359.60	9,660.3	4,516.7	-361.9	4,527.5	0.00	0.00	0.00	
14,400.0	90.12	359.60	9,660.1	4,616.7	-362.6	4,627.4	0.00	0.00	0.00	
14,500.0	90.12	359.60	9,659.9	4,716.7	-363.3	4,727.4	0.00	0.00	0.00	
14,600.0	90.12	359.60	9,659.7	4,816.7	-364.0	4,827.3	0.00	0.00	0.00	
14,700.0	90.12	359.60	9,659.5	4,916.7	-364.6	4,927.3	0.00	0.00	0.00	
14,800.0	90.12	359.60	9,659.3	5,016.7	-365.3	5,027.2	0.00	0.00	0.00	
14,900.0	90.12	359.60	9,659.1	5,116.7	-366.0	5,127.2	0.00	0.00	0.00	
15,000.0	90.12	359.60	9,658.9	5,216.7	-366.7	5,227.1	0.00	0.00	0.00	
15,100.0	90.12	359.60	9,658.7	5,316.7	-367.4	5,327.1	0.00	0.00	0.00	
15,200.0	90.12	359.60	9,658.5	5,416.7	-368.1	5,427.0	0.00	0.00	0.00	
15,300.0	90.12	359.60	9,658.3	5,516.7	-368.8	5,527.0	0.00	0.00	0.00	
15,400.0	90.12	359.60	9,658.1	5,616.7	-369.5	5,626.9	0.00	0.00	0.00	
15,500.0	90.12	359.60	9,657.9	5,716.7	-370.2	5,726.8	0.00	0.00	0.00	
15,600.0	90.12	359.60	9,657.7	5,816.7	-370.9	5,826.8	0.00	0.00	0.00	
15,700.0	90.12	359.60	9,657.5	5,916.7	-371.5	5,926.7	0.00	0.00	0.00	
15,800.0	90.12	359.60	9,657.3	6,016.7	-372.2	6,026.7	0.00	0.00	0.00	
15,900.0	90.12	359.60	9,657.1	6,116.7	-372.9	6,126.6	0.00	0.00	0.00	
16,000.0	90.12	359.60	9,656.9	6,216.7	-373.6	6,226.6	0.00	0.00	0.00	
16,100.0	90.12	359.60	9,656.7	6,316.7	-374.3	6,326.5	0.00	0.00	0.00	
16,200.0	90.12	359.60	9,656.5	6,416.7	-375.0	6,426.5	0.00	0.00	0.00	
16,300.0	90.12	359.60	9,656.3	6,516.7	-375.7	6,526.4	0.00	0.00	0.00	
16,400.0	90.12	359.60	9,656.1	6,616.7	-376.4	6,626.4	0.00	0.00	0.00	
16,500.0	90.12	359.60	9,655.9	6,716.7	-377.1	6,726.3	0.00	0.00	0.00	
16,600.0	90.12	359.60	9,655.7	6,816.7	-377.8	6,826.3	0.00	0.00	0.00	
16,700.0	90.12	359.60	9,655.5	6,916.7	-378.5	6,926.2	0.00	0.00	0.00	
16,800.0	90.12	359.60	9,655.3	7,016.7	-379.1	7,026.2	0.00	0.00	0.00	
16,900.0	90.12	359.60	9,655.1	7,116.6	-379.8	7,126.1	0.00	0.00	0.00	
17,000.0	90.12	359.60	9,654.9	7,216.6	-380.5	7,226.0	0.00	0.00	0.00	
17,100.0	90.12	359.60	9,654.7	7,316.6	-381.2	7,326.0	0.00	0.00	0.00	
17,200.0	90.12	359.60	9,654.5	7,416.6	-381.9	7,425.9	0.00	0.00	0.00	
17,300.0	90.12	359.60	9,654.3	7,516.6	-382.6	7,525.9	0.00	0.00	0.00	
17,400.0	90.12	359.60	9,654.1	7,616.6	-383.3	7,625.8	0.00	0.00	0.00	
17,500.0	90.12	359.60	9,653.9	7,716.6	-384.0	7,725.8	0.00	0.00	0.00	
17,600.0	90.12	359.60	9,653.7	7,816.6	-384.7	7,825.7	0.00	0.00	0.00	
17,700.0	90.12	359.60	9,653.5	7,916.6	-385.4	7,925.7	0.00	0.00	0.00	
17,800.0	90.12	359.60	9,653.3	8,016.6	-386.0	8,025.6	0.00	0.00	0.00	
17,900.0	90.12	359.60	9,653.1	8,116.6	-386.7	8,125.6	0.00	0.00	0.00	
18,000.0	90.12	359.60	9,652.9	8,216.6	-387.4	8,225.5	0.00	0.00	0.00	
18,100.0	90.12	359.60	9,652.7	8,316.6	-388.1	8,325.5	0.00	0.00	0.00	
18,200.0	90.12	359.60	9,652.5	8,416.6	-388.8	8,425.4	0.00	0.00	0.00	
18,300.0	90.12	359.60	9,652.3	8,516.6	-389.5	8,525.4	0.00	0.00	0.00	
18,400.0	90.12	359.60	9,652.1	8,616.6	-390.2	8,625.3	0.00	0.00	0.00	
18,500.0	90.12	359.60	9,651.9	8,716.6	-390.9	8,725.2	0.00	0.00	0.00	
18,600.0	90.12	359.60	9,651.7	8,816.6	-391.6	8,825.2	0.00	0.00	0.00	
18,700.0	90.12	359.60	9,651.5	8,916.6	-392.3	8,925.1	0.00	0.00	0.00	
18,800.0	90.12	359.60	9,651.3	9,016.6	-393.0	9,025.1	0.00	0.00	0.00	
18,900.0	90.12	359.60	9,651.1	9,116.6	-393.6	9,125.0	0.00	0.00	0.00	
19,000.0	90.12	359.60	9,650.9	9,216.6	-394.3	9,225.0	0.00	0.00	0.00	
19,100.0	90.12	359.60	9,650.7	9,316.6	-395.0	9,324.9	0.00	0.00	0.00	
19,200.0	90.12	359.60	9,650.5	9,416.6	-395.7	9,424.9	0.00	0.00	0.00	
19,300.0	90.12	359.60	9,650.3	9,516.6	-396.4	9,524.8	0.00	0.00	0.00	
19,400.0	90.12	359.60	9,650.1	9,616.6	-397.1	9,624.8	0.00	0.00	0.00	
19,500.0	90.12	359.60	9,649.9	9,716.6	-397.8	9,724.7	0.00	0.00	0.00	
19,600.0	90.12	359.60	9,649.7	9,816.6	-398.5	9,824.7	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Hereford 29/20 State Com #401H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3769.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3769.0usft (Original Well Elev)
Site:	Hereford 29/20 State Com #401H	North Reference:	Grid
Well:	Sec 29, T19S, R35E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 660' FWL (Sec 20)		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,700.0	90.12	359.60	9,649.4	9,916.6	-399.2	9,924.6	0.00	0.00	0.00	
19,800.0	90.12	359.60	9,649.2	10,016.6	-399.9	10,024.6	0.00	0.00	0.00	
19,900.0	90.12	359.60	9,649.0	10,116.6	-400.5	10,124.5	0.00	0.00	0.00	
19,922.5	90.12	359.60	9,649.0	10,139.1	-400.7	10,147.0	0.00	0.00	0.00	
BHL: 100' FNL & 660' FWL (Sec 20)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
SHL: 355' FSL & 990' FV - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	592,198.30	802,550.90	32.6251366	-103.4848830	
KOP: 10' FSL & 660' FW - plan hits target center - Point	0.00	0.00	9,096.0	-347.4	-328.3	591,850.90	802,222.60	32.6241890	-103.4859582	
FTP: 100' FSL & 660' FV - plan hits target center - Point	0.00	0.00	9,404.3	-257.4	-328.9	591,940.90	802,221.98	32.6244364	-103.4859579	
BHL: 100' FNL & 660' FV - plan hits target center - Point	0.00	0.00	9,649.0	10,139.1	-400.7	602,337.40	802,150.20	32.6530120	-103.4859216	
LP: 473' FSL & 660' FWI - plan hits target center - Point	0.00	0.00	9,669.0	225.6	-332.3	592,423.90	802,218.64	32.6257640	-103.4859562	