

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 20185. Lease Serial No.
NMNM129043

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.
ZEKE 12/7 B3DA FED COM

1H

9. API Well No.
30-015-5633110. Field and Pool, or Exploratory
BENSON/BONE SPRING11. Sec., T. R. M. or Blk. and Survey or Area
SEC 12/T19S/R30E/NMP1a. Type of work: ☒ DRILL ☐ REENTER
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone2. Name of Operator
MEWBOURNE OIL COMPANY3a. Address
P O BOX 5270, HOBBS, NM 882413b. Phone No. (include area code)
(575) 393-59054. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface NWNW / 710 FNL / 80 FWL / LAT 32.6801489 / LONG -103.9338185
At proposed prod. zone NENE / 660 FNL / 100 FEL / LAT 32.6803578 / LONG -103.900446914. Distance in miles and direction from nearest town or post office*
20 miles12. County or Parish
EDDY13. State
NM15. 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

17. Spacing Unit dedicated to this well
480.018. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.
50 feet19. Proposed Depth
9629 feet / 19683 feet20. BLM/BIA Bond No. in file
FED: NM169321. Elevations (Show whether DF, KDB, RT, GL, etc.)
3469 feet22. Approximate date work will start*
01/19/202223. Estimated duration
60 days

24. Attachments

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

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature
(Electronic Submission)Name (Printed/Typed)
BRADLEY BISHOP / Ph: (575) 393-5905Date
08/08/2024Title
RegulatoryApproved by (Signature)
(Electronic Submission)Name (Printed/Typed)
CODY LAYTON / Ph: (575) 234-5959Date
02/21/2025Title
Assistant Field Manager Lands & MineralsOffice
Carlsbad Field OfficeApplication approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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

(Continued on page 2)

*(Instructions on page 2)



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

WELL LOCATION INFORMATION

API Number 30-015-56331	Pool Code 5200	Pool Name BENSON BONE SPRING
Property Code 337091	Property Name ZEKE 12/7 B3DA FED COM	Well Number 1H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3469'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL D	Section 12	Township 19S	Range 30E	Lot	Ft. from N/S 710 FNL	Ft. from E/W 80 FWL	Latitude 32.6801489°N	Longitude 103.9338185°W	County EDDY
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Bottom Hole Location

UL A	Section 7	Township 19S	Range 31E	Lot	Ft. from N/S 660 FNL	Ft. from E/W 100 FEL	Latitude 32.6803578°N	Longitude 103.9004469°W	County EDDY
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Dedicated Acres 320	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code C
Order Numbers. NSP-2241			Well setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL D	Section 12	Township 19S	Range 30E	Lot	Ft. from N/S 660 FNL	Ft. from E/W 10 FWL	Latitude 32.6802860°N	Longitude 103.9340460°W	County EDDY
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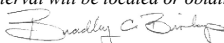
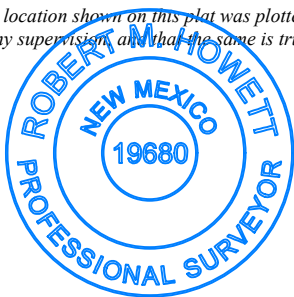
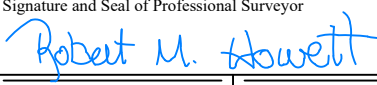
First Take Point (FTP)

UL D	Section 12	Township 19S	Range 30E	Lot	Ft. from N/S 660 FNL	Ft. from E/W 100 FWL	Latitude 32.6802863°N	Longitude 103.9337535°W	County EDDY
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Last Take Point (LTP)

UL A	Section 7	Township 19S	Range 31E	Lot	Ft. from N/S 660 FNL	Ft. from E/W 100 FEL	Latitude 32.6803578	Longitude 103.9004469	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3497'
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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>  1-10-2025		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 BRADLEY BISHOP	Date	Signature and Seal of Professional Surveyor 	
Printed Name BBISHOP@MEWBOURNE.COM		Certificate Number 19680	Date of Survey 11/16/2021
Email Address			

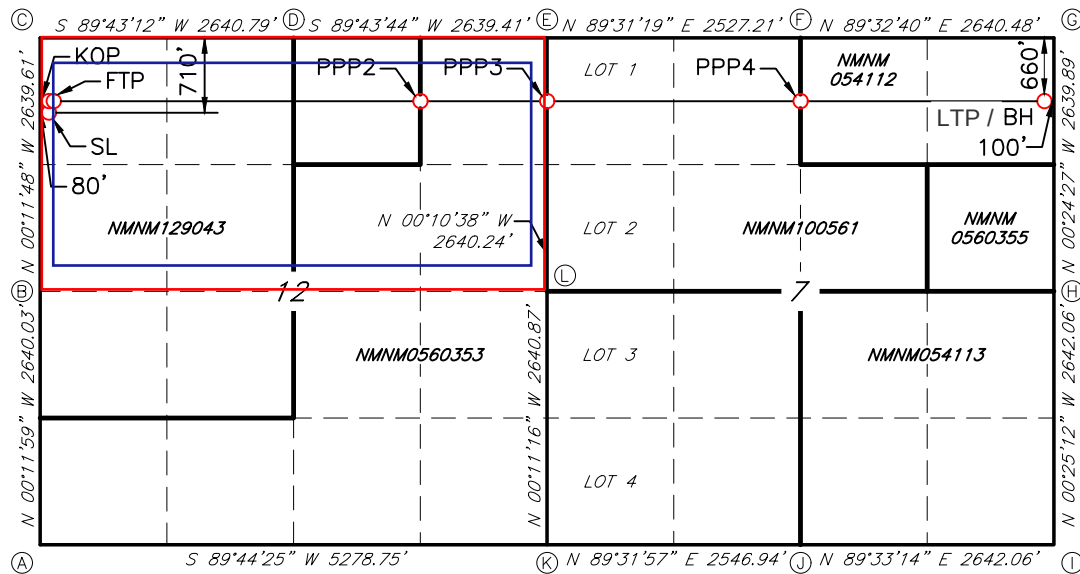
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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.

ZEKE 12/7 FED COM #611H



GEODETTIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)
N: 611400.7 - E: 664259.8

LAT: 32.6801489° N
LONG: 103.9338185° W

KICK OFF POINT (KOP)
660' FNL - 10' FWL SEC. 12
N: 611450.3 - E: 664189.6

LAT: 32.6802860° N
LONG: 103.9340460° W

FIRST TAKE POINT (FTP)
660' FNL - 100' FWL SEC. 12
N: 611450.8 - E: 664279.6

LAT: 32.6802863° N
LONG: 103.9337535° W

PROPOSED PENETRATION POINT 2 (PPP2)
654' FNL - 1320' FEL SEC. 12
N: 611475.7 - E: 668139.0

LAT: 32.6803143° N
LONG: 103.9212101° W

PROPOSED PENETRATION POINT 3 (PPP3)
651' FNL - 0' FWL SEC. 7
N: 611484.2 - E: 669458.3

LAT: 32.6803235° N
LONG: 103.9169220° W

PROPOSED PENETRATION POINT 4 (PPP4)
656' FNL - 2530' FWL SEC. 7
N: 611500.6 - E: 671987.4

LAT: 32.6803409° N
LONG: 103.9087022° W

LTP / BOTTOM HOLE (BH)
N: 611517.0 - E: 674527.3

LAT: 32.6803578° N
LONG: 103.9004469° W

CORNER DATA
NAD 83 GRID - NM EAST

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

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

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

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

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

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

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

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

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

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

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

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

JOB #: LS21101107D1

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		

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API Number 30-015-56331	Pool Code 97056	Pool Name HACKBERRY BONE SPRING
Property Code 337091	Property Name ZEKE 12/7 FED COM	Well Number 611H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3469'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

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Dedicated Acres 313.44	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code C
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL D	Section 12	Township 19S	Range 30E	Lot	Ft. from N/S 660 FNL	Ft. from E/W 10 FWL	Latitude 32.6802860°N	Longitude 103.9340460°W	County EDDY
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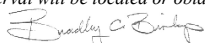
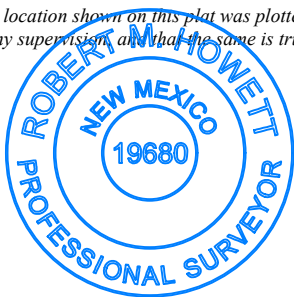
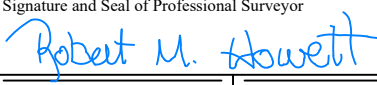
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Printed Name BBISHOP@MEWBOURNE.COM		Certificate Number 19680	Date of Survey 11/16/2021
Email Address			

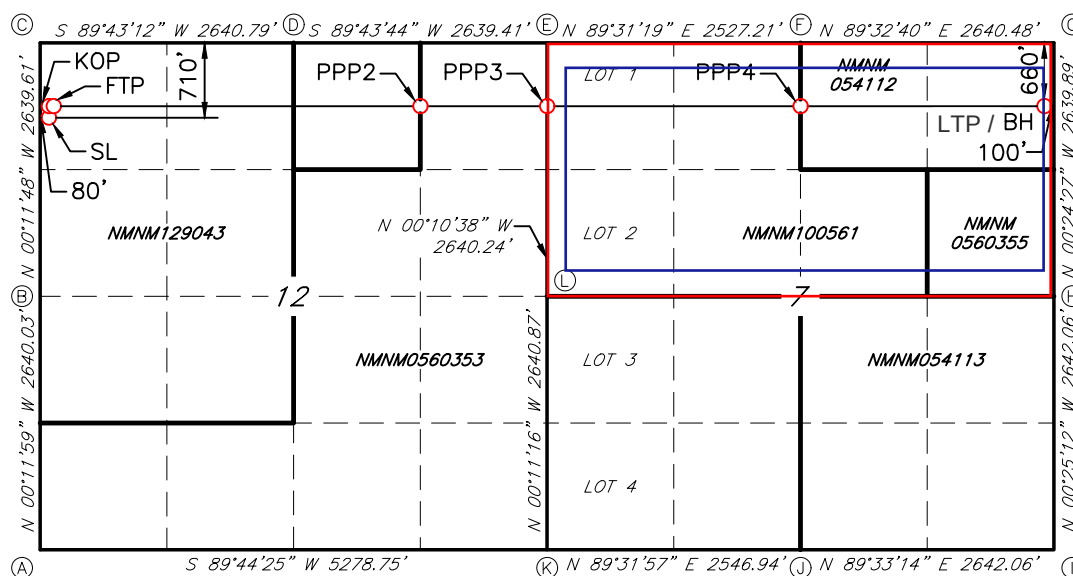
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ZEKE 12/7 FED COM #611H



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N: 606876.5 - E: 672019.4

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

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

JOB #: LS21101107D1

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:** 8/1/2024**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
Zeke 12/7 B3DA Fed Com #1H		D 12 19S 30E	710' FNL x 60' FWL	1500	3000	4500
				Y1: 400; Y2: 300; Y3: 200	Y1: 800; Y2: 600; Y3: 400	Y1: 1200; Y2: 900; Y3: 600

IV. Central Delivery Point Name: Zeke Master Meter [See 19.15.27.9(D)(1) NMAC]**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Zeke 12/7 B3DA Fed Com #1H		12/1/2024	1/1/2025	2/1/2025	2/15/2025	2/20/2025

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:	8/1/2024
Phone:	575-393-5905
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

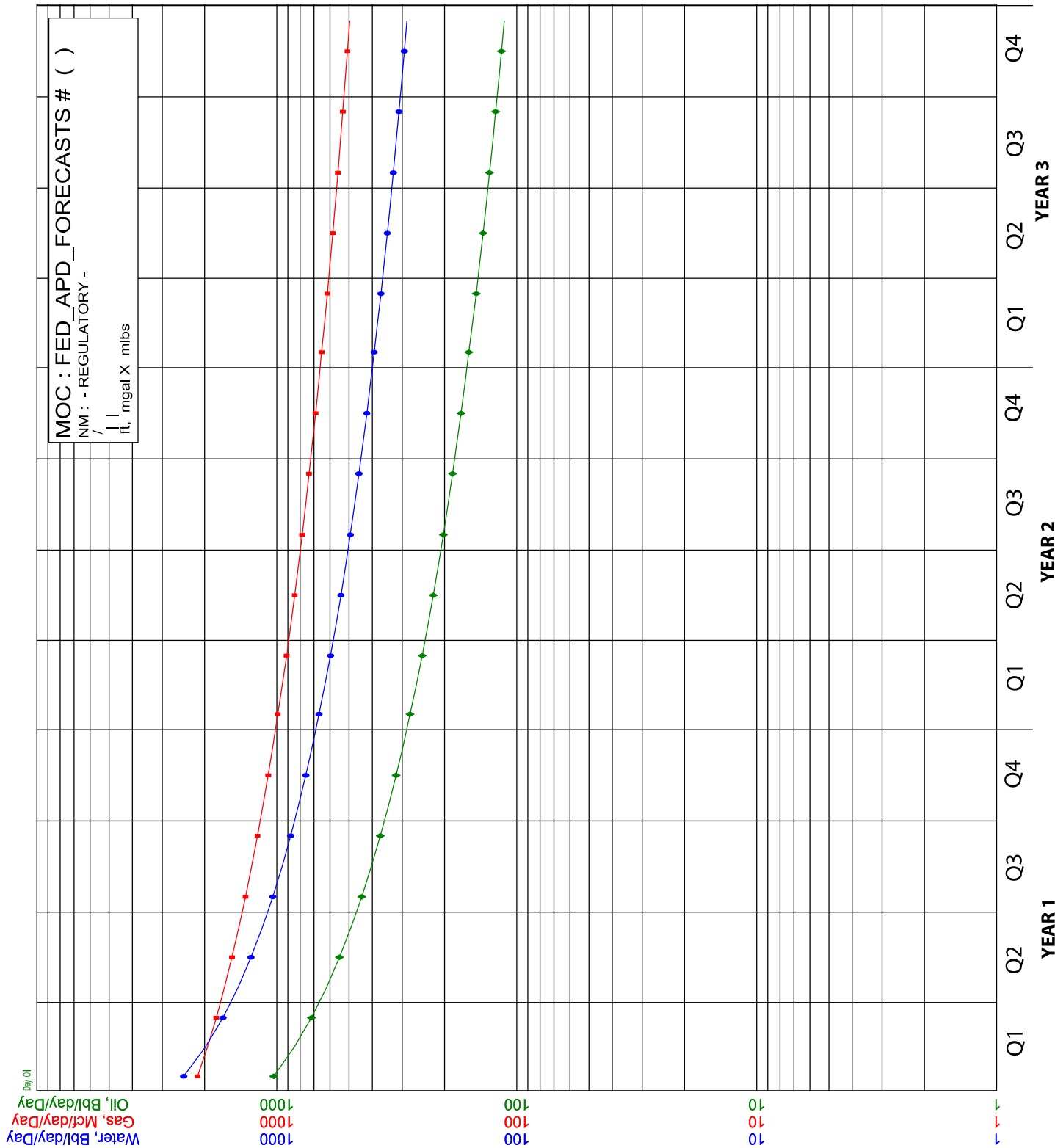
Mewbourne Oil Company

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= EDDYBS2.0
Ref= 1/2025
Cum= 32173
Rem= 32173
Yrs= 3.000
Qj= 1150.0
b= 0.95000
De= 75.00000
Df= 23.952479
Qab= 111.3

Gas, Mcf/day
Qual= EDDYBS2.0
Ref= 1/2025
Cum= 1038057
Rem= 1038057
Yrs= 3.000
Qj= 2250.0
b= 1.050000
De= 55.000000
Df= 20.108832
Qab= 491.6

Water, Bbl/d
Qual= EDDYBS2.0
Ref= 1/2025
Cum= 771323
Rem= 771323
Yrs= 3.000
Qj= 2750.0
b= 1.050000
De= 75.000000
Df= 22.260386
Qab= 283.6



Drilling Plan Data Report

02/24/2025

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

APD ID: 10400082810

Submission Date: 08/08/2024

Operator Name: MEWBOURNE OIL COMPANY

Highlighted data
reflects the most
recent changes

Well Name: ZEKE 12/7 B3DA FED COM

Well Number: 1H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15075857	UNKNOWN	3469	28	28	OTHER : Topsoil	NONE	N
15075870	RUSTLER	3003	466	466	ANHYDRITE	USEABLE WATER	N
15075858	TOP SALT	2842	627	627	SALT	NONE	N
15075860	BASE OF SALT	1557	1912	1912	SALT	NONE	N
15075862	YATES	1352	2117	2117	SANDSTONE	NATURAL GAS, OIL	N
15075863	SEVEN RIVERS	941	2528	2528	DOLOMITE	NATURAL GAS, OIL	N
15075864	QUEEN	459	3010	3010	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
15075865	GRAYBURG	155	3314	3314	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
15075869	SAN ANDRES	-87	3556	3556	DOLOMITE	NATURAL GAS, OIL	N
15075861	LAMAR	-845	4314	4314	LIMESTONE	NATURAL GAS, OIL	N
15075866	BONE SPRING	-2686	6155	6155	LIMESTONE, SHALE	NATURAL GAS, OIL	N
15075867	BONE SPRING 1ST	-4214	7683	7683	SANDSTONE	NATURAL GAS, OIL	N
15075868	BONE SPRING 2ND	-4739	8208	8208	SANDSTONE	NATURAL GAS, OIL	N
15075871	BONE SPRING 3RD	-5885	9354	9354	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** ZEKE 12/7 B3DA FED COM**Well Number:** 1H**Pressure Rating (PSI):** 5M**Rating Depth:** 19683**Equipment:** Annular, Pipe Ram x2, Blind Ram**Requesting Variance?** YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to choke manifold. Anchors not required by manufacturer. A multi-bowl wellhead is being used. See attached schematic.

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

Choke Diagram Attachment:

Zeke_12_7_B3DA_Fed_Com_1H_5M_BOPE_Choke_Diagram_20220126093324.pdf

Zeke_12_7_B3DA_Fed_Com_1H_Flex_Line_Specs_API_16C_20240731154720.pdf

BOP Diagram Attachment:

Zeke_12_7_B3DA_Fed_Com_1H_5M_BOPE_Schematic_20220126093336.pdf

Mewbourne_Break_Testing_Variance_20240731154733.pdf

Zeke_12_7_B3DA_Fed_Com_1H_5M_Multi_Bowl_WH_20240731154821.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	530	0	530	3469	2939	530	H-40	48	ST&C	3.25	7.3	DRY	12.66	DRY	21.27
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	2200	0	2200	-8529	1269	2200	J-55	36	LT&C	1.73	3.02	DRY	5.72	DRY	7.12
3	PRODUCTION	8.75	7.0	NEW	API	N	0	9018	0	9017	-8529	-5548	9018	P-110	26	LT&C	1.38	2.21	DRY	2.96	DRY	3.54
4	LINER	6.125	4.5	NEW	API	N	8818	19683	8818	9629	-5349	-6160	10865	P-110	13.5	LT&C	2.13	2.48	DRY	2.3	DRY	2.88

Casing Attachments

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** ZEKE 12/7 B3DA FED COM**Well Number:** 1H**Casing Attachments**

Casing ID: 1 **String** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Zeke_12_7_B3DA_Fed_Com_1H_CsgAssumptions_20240731155715.pdf

Casing ID: 2 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:**

FNR_17_20_W2IP_Fed_Com_3H_TaperedCsg_05-26-2017.pdf

Casing Design Assumptions and Worksheet(s):Zeke_12_7_B3DA_Fed_Com_1H_CsgAssumptions_20240731155739.pdf

Casing ID: 3 **String** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Zeke_12_7_B3DA_Fed_Com_1H_CsgAssumptions_20240731155833.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: ZEKE 12/7 B3DA FED COM

Well Number: 1H

Casing Attachments

Casing ID: 4 String LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Zeke_12_7_B3DA_Fed_Com_1H_CsgAssumptions_20240731155913.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	343	230	2.12	12.5	490	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		343	530	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	1521	280	2.12	12.5	600	25	Class C	Salt, Gel, Extender, LCM, HSR
INTERMEDIATE	Tail		1521	2200	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		1700	6537	430	2.12	12.5	920	25	Class C	Salt, Gel, Extender, LCM, Defoamer
PRODUCTION	Tail		6537	9018	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		8818	19683	690	1.85	13.5	1280	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** ZEKE 12/7 B3DA FED COM**Well Number:** 1H**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 Onshore Order #2:****Diagram of the equipment for the circulating system in accordance with Onshore Order #2:****Describe what will be on location to control well or mitigate other conditions:** Lost Circulation Material, Sweeps, Mud Scavengers in Surface Hole**Describe the mud monitoring system utilized:** Pason/PVT/Visual Monitoring**Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
9018	1968 3	OIL-BASED MUD	8.6	10							
0	530	SPUD MUD	8.6	8.8							
530	2200	SALT SATURATED	9.5	10.2							
2100	9018	WATER-BASED MUD	8.6	9.6							

Section 6 - Test, Logging, Coring**List of production tests including testing procedures, equipment and safety measures:**

Will use GR/CNL logs in vertical portion of offset well, Zeke 12/7 B3EH Fed Com #1H.

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

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

Coring operation description for the well:

None

Operator Name: MEWBOURNE OIL COMPANY

Well Name: ZEKE 12/7 B3DA FED COM

Well Number: 1H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5007

Anticipated Surface Pressure: 2888

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

Zeke_12_7_B3DA_Fed_Com_1H_H2S_Plan_20220126101635.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Zeke_12_7_B3DA_Fed_Com_1H_Dir_Plan_20220126101658.pdf

Zeke_12_7_B3DA_Fed_Com_1H_Dir_Plot_20220126101658.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Zeke_12_7_B3DA_Fed_Com_1H_Drlg_Program_20240731161457.pdf

Mewbourne_Offline_Cementing_Variance_20240731161548.pdf

Zeke_12_7_B3DA_Fed_Com_1H_Waste_Min_Plan_20241113091652.pdf

Other Variance attachment:

5M BOPE & Closed Loop Equipment Schematic

The schematic illustrates the equipment layout for a 5M BOPE & Closed Loop system. The process flow is as follows:

- Wellhead:** The system starts at the wellhead, which includes a **Fill Up Line** and a **2" min. Kill Line** with **2" Valves**.
- Flowline:** The flowline consists of **2" min. Kill Line**, **4" min. Choke Line**, and **4" min. Line to Separator**.
- Separator:** The separator is connected to the flowline and has a **Line to Flare Pit (150' from wellhead)**.
- Shakers:** The separator feeds into the **Shakers**, which are connected to the **Flowline to Shakers**.
- Process Tanks:** The shakers feed into the **Process Tanks**, which are connected to the **Flowline to Shakers**.
- Volume Tanks:** The process tanks feed into the **Volume Tanks**, which are connected to the **Flowline to Shakers**.
- Mud Pumps:** The volume tanks feed into the **Mud Pumps**, which are connected to the **Flowline to Shakers**.
- Rotating Head:** The rotating head is connected to the **Flowline to Shakers**.
- Annular:** The annular is connected to the **Flowline to Shakers**.
- Pipe Rams:** The pipe rams are connected to the **Flowline to Shakers**.
- Blind Rams:** The blind rams are connected to the **Flowline to Shakers**.
- Check Valve:** The check valve is connected to the **Flowline to Shakers**.
- HCR Valve:** The HCR valve is connected to the **Flowline to Shakers**.
- Buffer Tank:** The buffer tank is connected to the **Flowline to Shakers**.
- Remotely Operated Choke:** The remotely operated choke is connected to the **Flowline to Shakers**.
- Adjustable Choke:** The adjustable choke is connected to the **Flowline to Shakers**.

Drawing not to scale



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTTY/QR-5.7.1-28

No: 230826015

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd edition			
Product Specification	3"×10000psi×60ft (18.29m)	Serial Number	7660144			
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water			
Inspection Department	Q.C. Department	Inspection Date	2023.08.26			
Rate of length change						
Standard requirements	At working pressure ,the rate of length change should not more than $\pm 2\%$					
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					



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTTY/QR-5.7.1-19B

No: LT2023-126-002

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

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



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF CONFORMANCE

№:LT230826016

Product Name: Choke And Kill Hose

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

Serial Number: 7660143~7660144

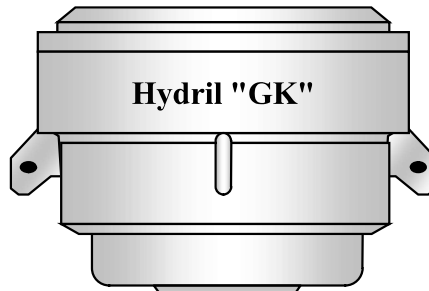
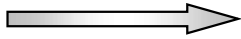
End Connections: 4-1/16"×10000psi Integral flange for sour gas service

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

QC Manager: *Jiaolong Chen*

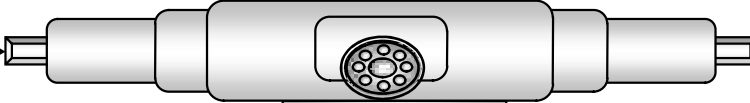
Date:Aug 26, 2023

Hydril "GK"
13 5/8" 5M

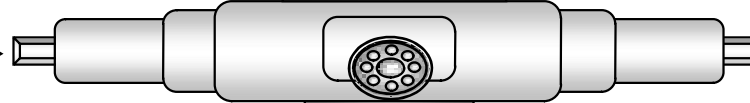


Hydril "GK"

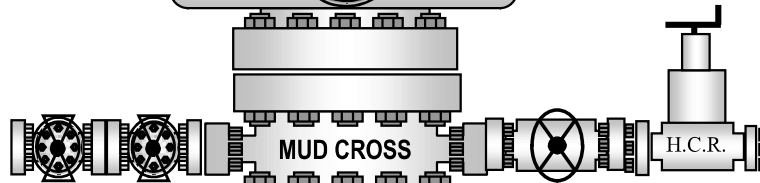
Cameron Type U
13 5/8" 5M



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

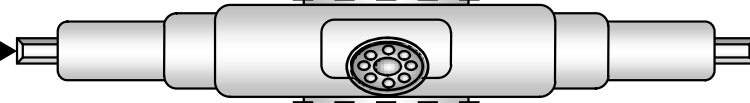


BLIND RAMS



MUD CROSS

H.C.R.



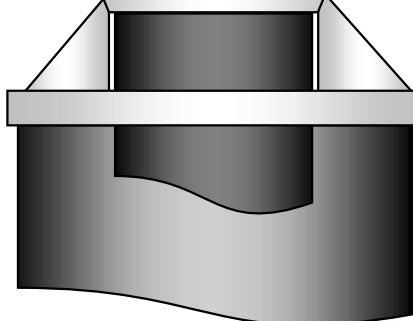
7" RAMS



13 5/8" 5M

13 5/8" 5M

13 5/8" 5M





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.

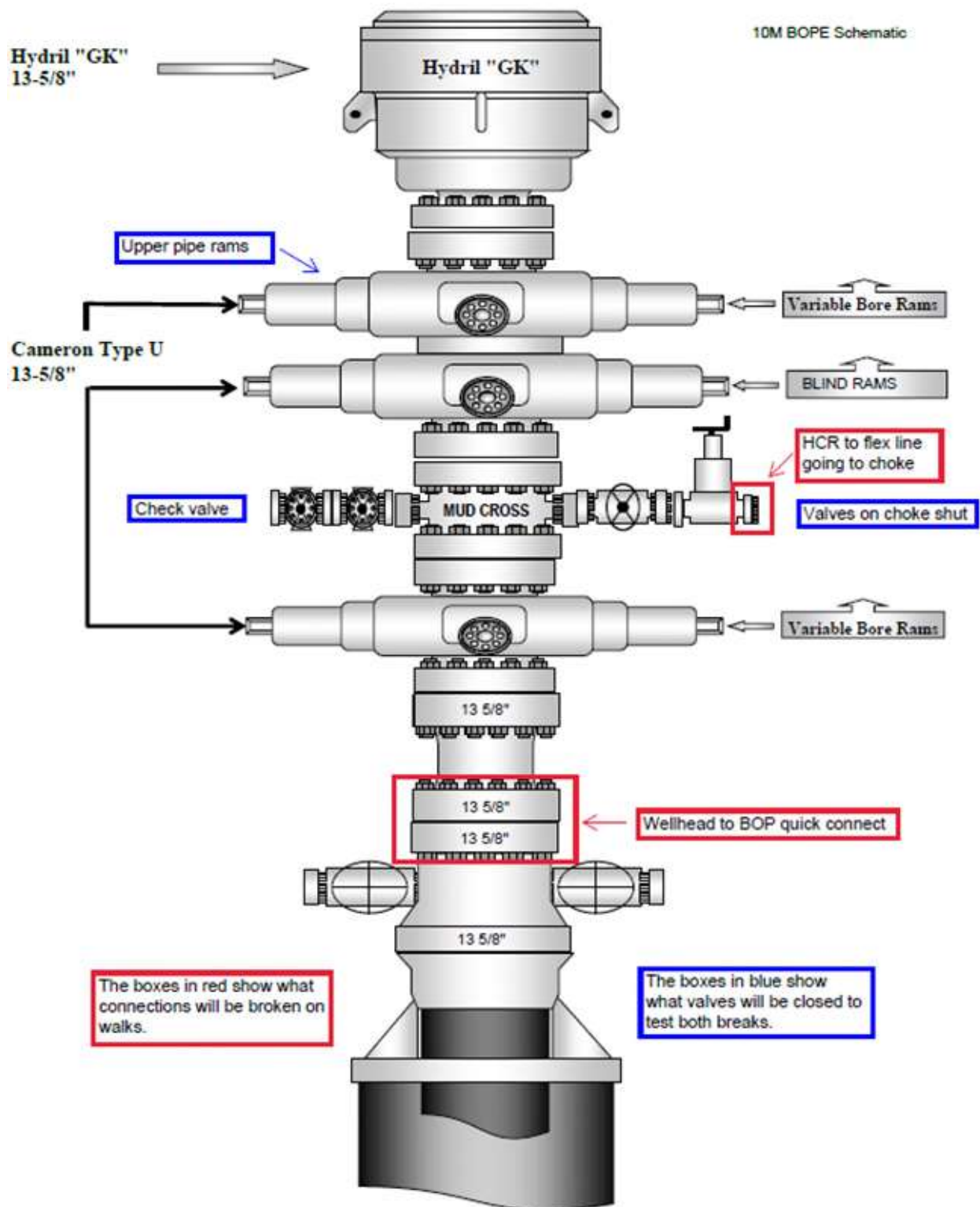


Figure 1. BOP diagram



5M BOPE & Closed Loop Equipment Schematic

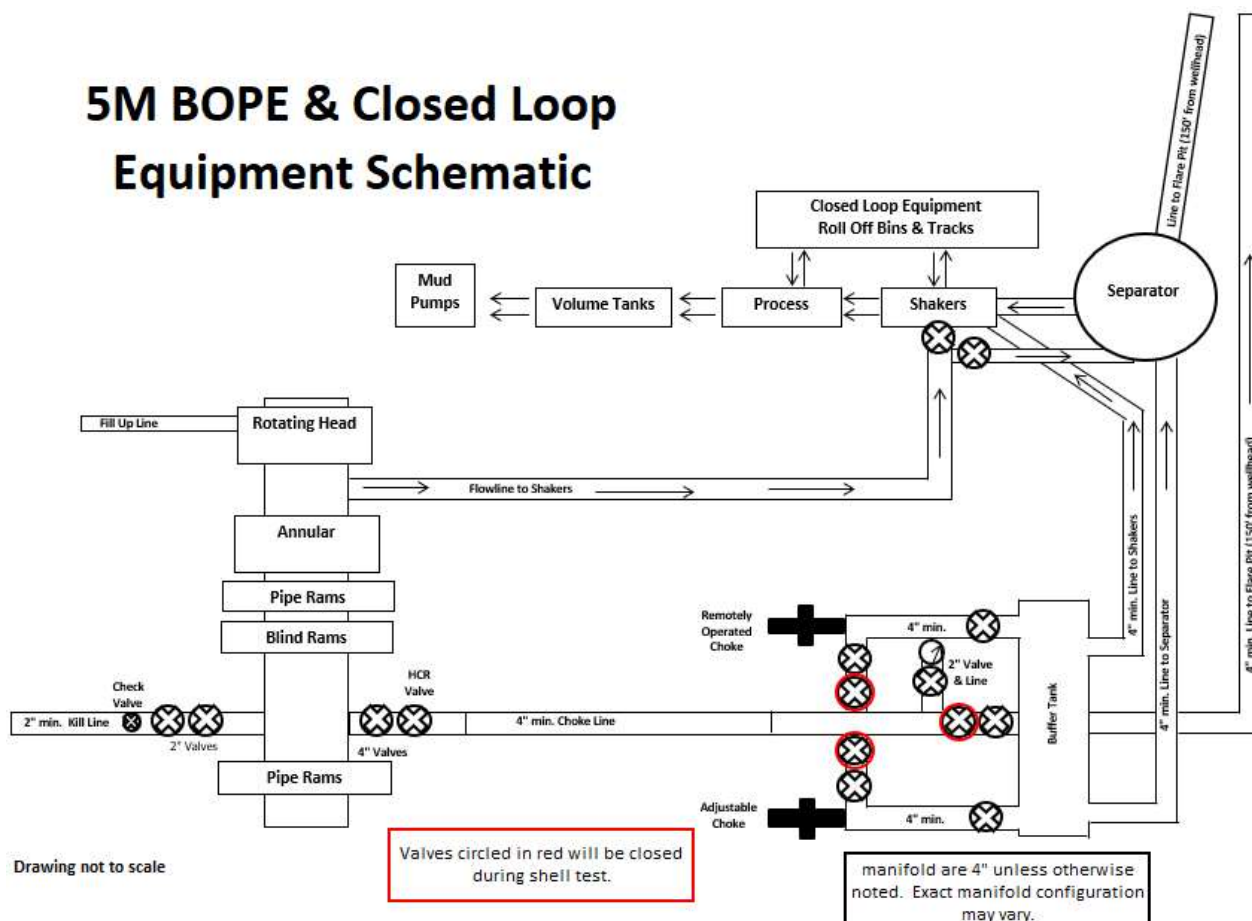


Figure 2. BOPE diagram



Figure 3. BOP handling system



Figure 4. BOP handling system

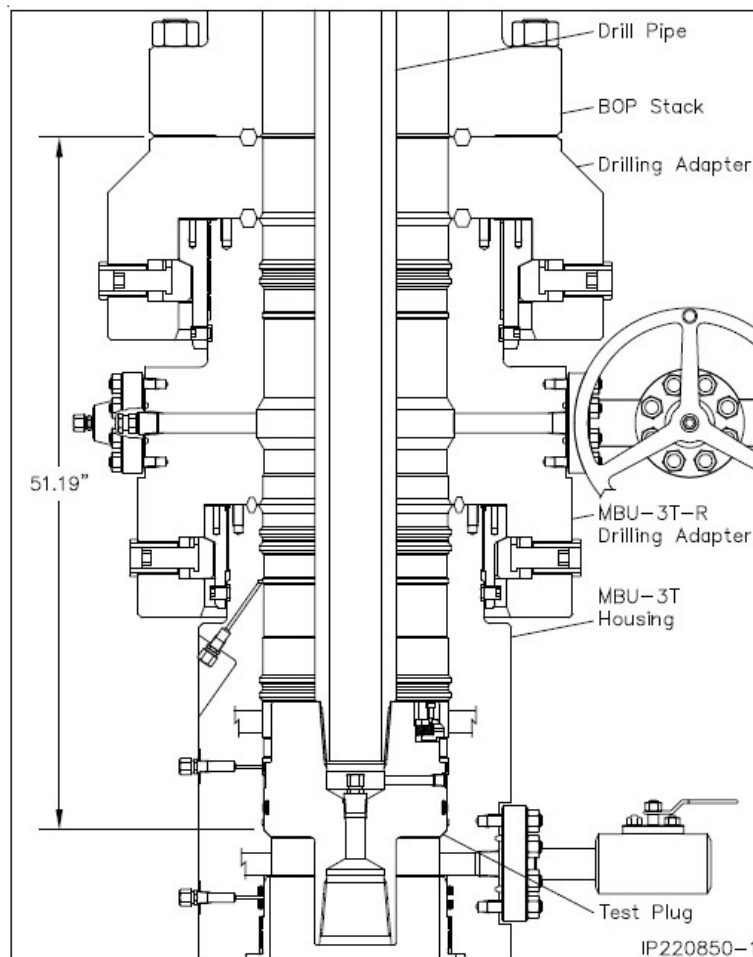


Figure 5. Cactus 5M wellhead with BOP quick connect

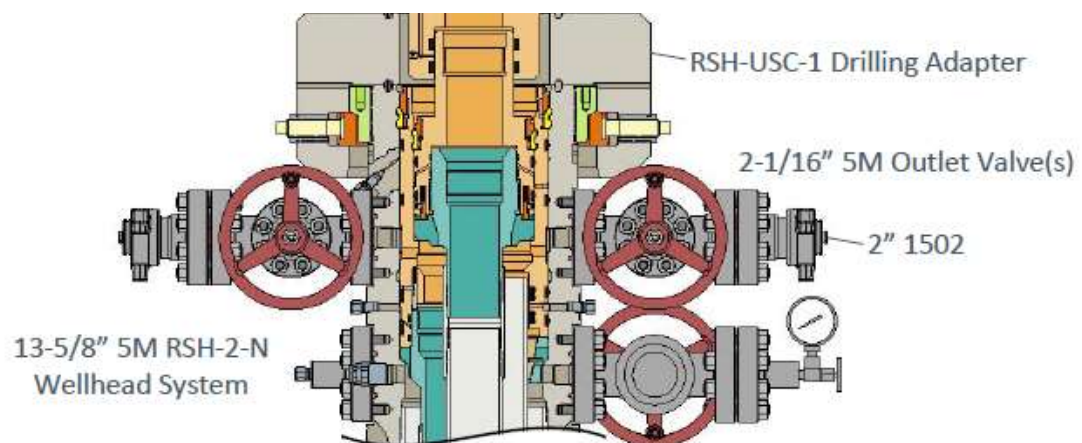
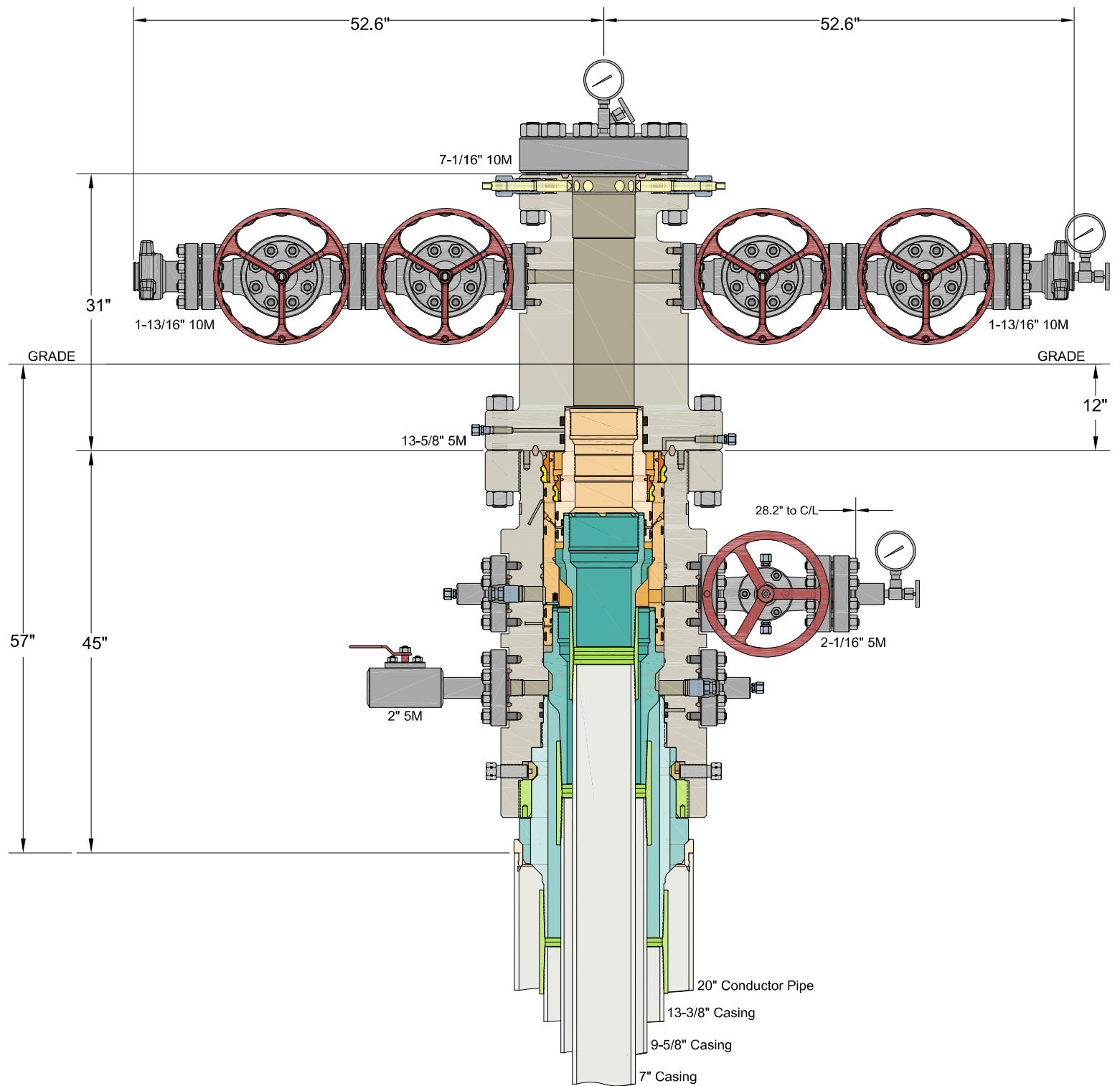


Figure 6. Vault 5M wellhead with BOP quick connect



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ALL DIMENSIONS APPROXIMATE

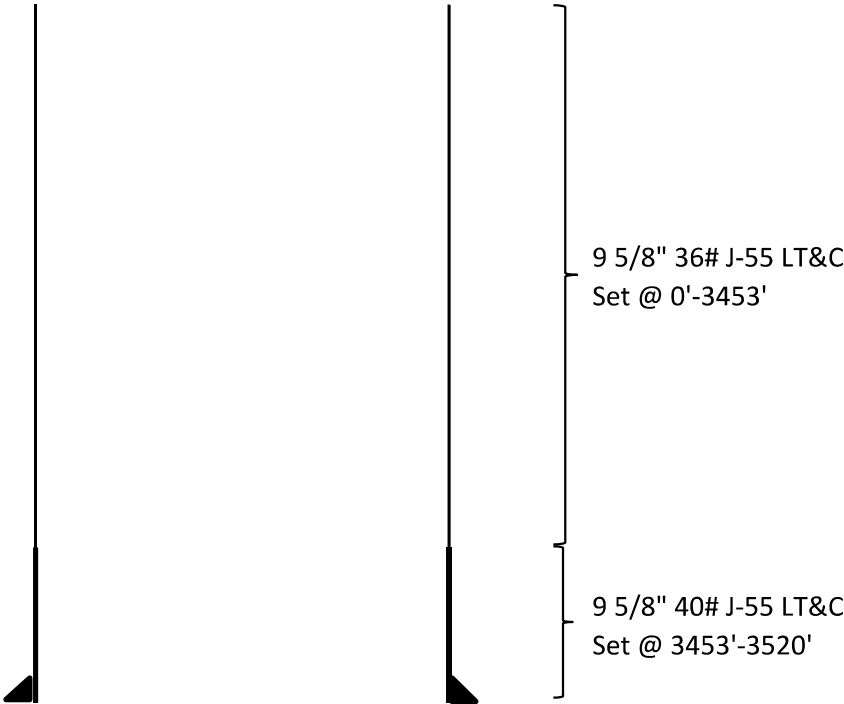
CACTUS WELLHEAD LLC

MEWBOURNE OIL COMPANY
NEW MEXICO

20" x 13-3/8" x 9-5/8" x 7" MBU-3T-CFL-R-DBLO Wellhead System
With 9-5/8" & 7" Fluted Mandrel Casing Hangers
And 13-5/8" 5M x 7-1/16" 10M CTH-DBLHPS Tubing Head

DRAWN	DLE	18APR22
APPRV		
DRAWING NO.	HBE0000660	

FNR 17/20 W2IP Fed Com #3H
Intermediate Casing



Casing	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
36# J-55	1.13	1.96	3.57	4.54
40# J-55	1.4	2.16	194.01	235.04

Mewbourne Oil Company, Zeke 12/7 B3DA Fed Com #1H
Eddy Co, NM
SHL: 710' FNL & 80' FWL, Sec 12, T19S, R30E
BHL: 660' FNL & 100' FEL, Sec 7, T19S, R31E

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
26"	0'	530'	20"	94	J-55	BTC	2.14	8.70	28.14	29.71
17.5"	0'	2100'	13.375"	54.5	J55	STC	1.23	2.98	4.49	7.45
12.25"	0'	3452'	9.625"	36	J55	LTC	1.13	1.96	2.90	3.61
12.25"	3452'	4250'	9.625"	40	L-80	LTC	1.40	2.60	22.78	28.70
8.75"	0'	9100'	7"	26	P110	LTC	1.39	2.21	5.28	6.32
6.125"	9000'	19683'	4.5"	13.5	P110	LTC	1.77	2.06	2.34	2.93
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
 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.	Y
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	Y
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Zeke 12/7 B3DA Fed Com #1H
Eddy Co, NM
SHL: 710' FNL & 80' FWL, Sec 12, T19S, R30E
BHL: 660' FNL & 100' FEL, Sec 7, T19S, R31E

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
26"	0'	530'	20"	94	J-55	BTC	2.14	8.70	28.14	29.71
17.5"	0'	2100'	13.375"	54.5	J55	STC	1.23	2.98	4.49	7.45
12.25"	0'	3452'	9.625"	36	J55	LTC	1.13	1.96	2.90	3.61
12.25"	3452'	4250'	9.625"	40	L-80	LTC	1.40	2.60	22.78	28.70
8.75"	0'	9100'	7"	26	P110	LTC	1.39	2.21	5.28	6.32
6.125"	9000'	19683'	4.5"	13.5	P110	LTC	1.77	2.06	2.34	2.93
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
 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.	Y
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	Y
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Zeke 12/7 B3DA Fed Com 1H

Sec 12, T19S, R30E

SHL: 710' FNL 80' FWL (Sec 12)

BHL: 660' FNL 100' FEL (Sec 7)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	530'	530'	13.375" 48# H40 STC	3.25	7.30	12.66	21.27
Int	12.25"	0'	0'	2200'	2200'	9.625" 36# J55 LTC	1.73	3.02	5.72	7.12
Production	8.75"	0'	0'	9018'	9017'	7" 26# P110 LTC	1.38	2.21	2.96	3.54
Liner	6.125"	8818'	8818'	19683'	9629'	4.5" 13.5# P110 LTC	2.13	2.48	2.30	2.88

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
13.375 in	LEAD	230	12.5	2.12	0' - 343'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	343' - 530'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
7 in	LEAD	430	12.5	2.12	1700' - 6537'	920	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6537' - 9018'	472		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	690	13.5	1.85	8818' - 19683'	1280	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Scale Agent

Design A - Mud Program		
Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 530'	8.4 - 8.6	Fresh Water
530' - 2200'	9.5 - 10.2	Brine
2200' - 9018'	8.6 - 9.6	Cut-Brine
9018' - 19683'	8.6 - 10.	OBM

Geology					
Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	466'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4314'	Oil/Natural Gas
Salt Top	627'	None	Bell Canyon	4545'	Oil/Natural Gas
Salt Base	1912'	None	Cherry Canyon		
Yates	2117'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2528'	Oil/Natural Gas	Basal Brushy Canyon		
Queen	3010'	Oil/Natural Gas	Bone Spring	6155'	Oil/Natural Gas
Capitan			1st Bone Spring	7683'	Oil/Natural Gas
Grayburg	3314'	None	2nd Bone Spring	8208'	Oil/Natural Gas
San Andres	3556'	Oil/Natural Gas	3rd Bone Spring	9354'	Oil/Natural Gas
Glorieta			Wolfcamp		

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Zeke 12/7 B3DA Fed Com 1H

Sec 12, T19S, R30E

SHL: 710' FNL 80' FWL (Sec 12)

BHL: 660' FNL 100' FEL (Sec 7)

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	530'	530'	13.375" 48# H40 STC	3.25	7.30	12.66	21.27
Int	12.25"	0'	0'	2200'	2200'	9.625" 36# J55 LTC	1.73	3.02	5.72	7.12
Production	8.75"	0'	0'	9918'	9590'	7" 26# P110 LTC	1.30	2.08	2.69	3.22
Liner	6.125"	9018'	9017'	19683'	9629'	4.5" 13.5# P110 LTC	2.13	2.48	2.35	2.93

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description
13.375 in	LEAD	230	12.5	2.12	0' - 343'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	343' - 530'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
7 in	LEAD	510	12.5	2.12	1700' - 7435'	1090	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	7435' - 9918'	472		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	680	13.5	1.85	9018' - 19683'	1260	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-sulfate Agent

Design B - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 530'	8.4 - 8.6	Fresh Water
530' - 2200'	9.5 - 10.2	Brine
2200' - 9918'	8.6 - 9.6	Cut-Brine
9918' - 19683'	8.6 - 10.	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	466'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4314'	Oil/Natural Gas
Salt Top	627'	None	Bell Canyon	4545'	Oil/Natural Gas
Salt Base	1912'	None	Cherry Canyon		
Yates	2117'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2528'	Oil/Natural Gas	Basal Brushy Canyon		
Queen	3010'	Oil/Natural Gas	Bone Spring	6155'	Oil/Natural Gas
Capitan			1st Bone Spring	7683'	Oil/Natural Gas
Grayburg	3314'	None	2nd Bone Spring	8208'	Oil/Natural Gas
San Andres	3556'	Oil/Natural Gas	3rd Bone Spring	9354'	Oil/Natural Gas
Glorieta			Wolfcamp		

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Zeke 12/7 B3DA Fed Com 1H

Sec 12, T19S, R30E

SHL: 710' FNL 80' FWL (Sec 12)

BHL: 660' FNL 100' FEL (Sec 7)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	530'	530'	13.375" 48# H40 STC	3.25	7.30	12.66	21.27
Int	12.25"	0'	0'	2200'	2200'	9.625" 36# J55 LTC	1.73	3.02	5.72	7.12
Production	8.75"	0'	0'	9018'	9017'	7" 26# P110 LTC	1.38	2.21	2.96	3.54
Liner	6.125"	8818'	8818'	19683'	9629'	4.5" 13.5# P110 LTC	2.13	2.48	2.30	2.88

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
13.375 in	LEAD	230	12.5	2.12	0' - 343'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	343' - 530'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
7 in	LEAD	430	12.5	2.12	1700' - 6537'	920	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6537' - 9018'	472		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	690	13.5	1.85	8818' - 19683'	1280	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Scale Agent

Design A - Mud Program		
Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 530'	8.4 - 8.6	Fresh Water
530' - 2200'	9.5 - 10.2	Brine
2200' - 9018'	8.6 - 9.6	Cut-Brine
9018' - 19683'	8.6 - 10.	OBM

Geology					
Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	466'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4314'	Oil/Natural Gas
Salt Top	627'	None	Bell Canyon	4545'	Oil/Natural Gas
Salt Base	1912'	None	Cherry Canyon		
Yates	2117'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2528'	Oil/Natural Gas	Basal Brushy Canyon		
Queen	3010'	Oil/Natural Gas	Bone Spring	6155'	Oil/Natural Gas
Capitan			1st Bone Spring	7683'	Oil/Natural Gas
Grayburg	3314'	None	2nd Bone Spring	8208'	Oil/Natural Gas
San Andres	3556'	Oil/Natural Gas	3rd Bone Spring	9354'	Oil/Natural Gas
Glorieta			Wolfcamp		

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Zeke 12/7 B3DA Fed Com 1H

Sec 12, T19S, R30E

SHL: 710' FNL 80' FWL (Sec 12)

BHL: 660' FNL 100' FEL (Sec 7)

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	530'	530'	13.375" 48# H40 STC	3.25	7.30	12.66	21.27
Int	12.25"	0'	0'	2200'	2200'	9.625" 36# J55 LTC	1.73	3.02	5.72	7.12
Production	8.75"	0'	0'	9918'	9590'	7" 26# P110 LTC	1.30	2.08	2.69	3.22
Liner	6.125"	9018'	9017'	19683'	9629'	4.5" 13.5# P110 LTC	2.13	2.48	2.35	2.93

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description
13.375 in	LEAD	230	12.5	2.12	0' - 343'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	343' - 530'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
7 in	LEAD	510	12.5	2.12	1700' - 7435'	1090	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	7435' - 9918'	472		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	680	13.5	1.85	9018' - 19683'	1260	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-sulfate Agent

Design B - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 530'	8.4 - 8.6	Fresh Water
530' - 2200'	9.5 - 10.2	Brine
2200' - 9918'	8.6 - 9.6	Cut-Brine
9918' - 19683'	8.6 - 10.	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	466'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4314'	Oil/Natural Gas
Salt Top	627'	None	Bell Canyon	4545'	Oil/Natural Gas
Salt Base	1912'	None	Cherry Canyon		
Yates	2117'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2528'	Oil/Natural Gas	Basal Brushy Canyon		
Queen	3010'	Oil/Natural Gas	Bone Spring	6155'	Oil/Natural Gas
Capitan			1st Bone Spring	7683'	Oil/Natural Gas
Grayburg	3314'	None	2nd Bone Spring	8208'	Oil/Natural Gas
San Andres	3556'	Oil/Natural Gas	3rd Bone Spring	9354'	Oil/Natural Gas
Glorieta			Wolfcamp		

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Zeke 12/7 B3DA Fed Com 1H

Sec 12, T19S, R30E

SHL: 710' FNL 80' FWL (Sec 12)

BHL: 660' FNL 100' FEL (Sec 7)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	530'	530'	13.375" 48# H40 STC	3.25	7.30	12.66	21.27
Int	12.25"	0'	0'	2200'	2200'	9.625" 36# J55 LTC	1.73	3.02	5.72	7.12
Production	8.75"	0'	0'	9018'	9017'	7" 26# P110 LTC	1.38	2.21	2.96	3.54
Liner	6.125"	8818'	8818'	19683'	9629'	4.5" 13.5# P110 LTC	2.13	2.48	2.30	2.88

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
13.375 in	LEAD	230	12.5	2.12	0' - 343'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	343' - 530'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
7 in	LEAD	430	12.5	2.12	1700' - 6537'	920	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6537' - 9018'	472		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	690	13.5	1.85	8818' - 19683'	1280	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Scale Agent

Design A - Mud Program		
Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 530'	8.4 - 8.6	Fresh Water
530' - 2200'	9.5 - 10.2	Brine
2200' - 9018'	8.6 - 9.6	Cut-Brine
9018' - 19683'	8.6 - 10.	OBM

Geology					
Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	466'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4314'	Oil/Natural Gas
Salt Top	627'	None	Bell Canyon	4545'	Oil/Natural Gas
Salt Base	1912'	None	Cherry Canyon		
Yates	2117'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2528'	Oil/Natural Gas	Basal Brushy Canyon		
Queen	3010'	Oil/Natural Gas	Bone Spring	6155'	Oil/Natural Gas
Capitan			1st Bone Spring	7683'	Oil/Natural Gas
Grayburg	3314'	None	2nd Bone Spring	8208'	Oil/Natural Gas
San Andres	3556'	Oil/Natural Gas	3rd Bone Spring	9354'	Oil/Natural Gas
Glorieta			Wolfcamp		

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Zeke 12/7 B3DA Fed Com 1H

Sec 12, T19S, R30E

SHL: 710' FNL 80' FWL (Sec 12)

BHL: 660' FNL 100' FEL (Sec 7)

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	530'	530'	13.375" 48# H40 STC	3.25	7.30	12.66	21.27
Int	12.25"	0'	0'	2200'	2200'	9.625" 36# J55 LTC	1.73	3.02	5.72	7.12
Production	8.75"	0'	0'	9918'	9590'	7" 26# P110 LTC	1.30	2.08	2.69	3.22
Liner	6.125"	9018'	9017'	19683'	9629'	4.5" 13.5# P110 LTC	2.13	2.48	2.35	2.93

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description
13.375 in	LEAD	230	12.5	2.12	0' - 343'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	343' - 530'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
7 in	LEAD	510	12.5	2.12	1700' - 7435'	1090	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	7435' - 9918'	472		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	680	13.5	1.85	9018' - 19683'	1260	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-sulfate Agent

Design B - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 530'	8.4 - 8.6	Fresh Water
530' - 2200'	9.5 - 10.2	Brine
2200' - 9918'	8.6 - 9.6	Cut-Brine
9918' - 19683'	8.6 - 10.	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	466'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4314'	Oil/Natural Gas
Salt Top	627'	None	Bell Canyon	4545'	Oil/Natural Gas
Salt Base	1912'	None	Cherry Canyon		
Yates	2117'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2528'	Oil/Natural Gas	Basal Brushy Canyon		
Queen	3010'	Oil/Natural Gas	Bone Spring	6155'	Oil/Natural Gas
Capitan			1st Bone Spring	7683'	Oil/Natural Gas
Grayburg	3314'	None	2nd Bone Spring	8208'	Oil/Natural Gas
San Andres	3556'	Oil/Natural Gas	3rd Bone Spring	9354'	Oil/Natural Gas
Glorieta			Wolfcamp		

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Zeke 12/7 B3DA Fed Com 1H

Sec 12, T19S, R30E

SHL: 710' FNL 80' FWL (Sec 12)

BHL: 660' FNL 100' FEL (Sec 7)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	530'	530'	13.375" 48# H40 STC	3.25	7.30	12.66	21.27
Int	12.25"	0'	0'	2200'	2200'	9.625" 36# J55 LTC	1.73	3.02	5.72	7.12
Production	8.75"	0'	0'	9018'	9017'	7" 26# P110 LTC	1.38	2.21	2.96	3.54
Liner	6.125"	8818'	8818'	19683'	9629'	4.5" 13.5# P110 LTC	2.13	2.48	2.30	2.88

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description
13.375 in	LEAD	230	12.5	2.12	0' - 343'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	343' - 530'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
7 in	LEAD	430	12.5	2.12	1700' - 6537'	920	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6537' - 9018'	472		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	690	13.5	1.85	8818' - 19683'	1280	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Scale, Anticorrosion

Design A - Mud Program		
Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 530'	8.4 - 8.6	Fresh Water
530' - 2200'	9.5 - 10.2	Brine
2200' - 9018'	8.6 - 9.6	Cut-Brine
9018' - 19683'	8.6 - 10.	OBM

Geology					
Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	466'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4314'	Oil/Natural Gas
Salt Top	627'	None	Bell Canyon	4545'	Oil/Natural Gas
Salt Base	1912'	None	Cherry Canyon		
Yates	2117'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2528'	Oil/Natural Gas	Basal Brushy Canyon		
Queen	3010'	Oil/Natural Gas	Bone Spring	6155'	Oil/Natural Gas
Capitan			1st Bone Spring	7683'	Oil/Natural Gas
Grayburg	3314'	None	2nd Bone Spring	8208'	Oil/Natural Gas
San Andres	3556'	Oil/Natural Gas	3rd Bone Spring	9354'	Oil/Natural Gas
Glorieta			Wolfcamp		

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Zeke 12/7 B3DA Fed Com 1H

Sec 12, T19S, R30E

SHL: 710' FNL 80' FWL (Sec 12)

BHL: 660' FNL 100' FEL (Sec 7)

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
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Liner	6.125"	9018'	9017'	19683'	9629'	4.5" 13.5# P110 LTC	2.13	2.48	2.35	2.93

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description
13.375 in	LEAD	230	12.5	2.12	0' - 343'	490	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	343' - 530'	268		Class C: Retarder
9.625 in	LEAD	280	12.5	2.12	0' - 1521'	600	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1521' - 2200'	268		Class C: Retarder
7 in	LEAD	510	12.5	2.12	1700' - 7435'	1090	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	7435' - 9918'	472		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	680	13.5	1.85	9018' - 19683'	1260	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-sulfate Agent

Design B - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 530'	8.4 - 8.6	Fresh Water
530' - 2200'	9.5 - 10.2	Brine
2200' - 9918'	8.6 - 9.6	Cut-Brine
9918' - 19683'	8.6 - 10.	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	466'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4314'	Oil/Natural Gas
Salt Top	627'	None	Bell Canyon	4545'	Oil/Natural Gas
Salt Base	1912'	None	Cherry Canyon		
Yates	2117'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2528'	Oil/Natural Gas	Basal Brushy Canyon		
Queen	3010'	Oil/Natural Gas	Bone Spring	6155'	Oil/Natural Gas
Capitan			1st Bone Spring	7683'	Oil/Natural Gas
Grayburg	3314'	None	2nd Bone Spring	8208'	Oil/Natural Gas
San Andres	3556'	Oil/Natural Gas	3rd Bone Spring	9354'	Oil/Natural Gas
Glorieta			Wolfcamp		

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Zeke 12/7 B3DA Fed Com 1H

Sec 12, T19S, R30E

SHL: 710' FNL 80' FWL (Sec 12)

BHL: 660' FNL 100' FEL (Sec 7)

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Zeke 12/7 B3DA Fed Com	1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	12	19	30	-	660'	FNL	10'	FWL	Eddy
Latitude					Longitude			NAD	
32.680286					-103.9340460			83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	12	19	30	-	660'	FNL	100'	FWL	Eddy
Latitude					Longitude			NAD	
32.6802863					-103.9337535			83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	7	19	31	-	660'	FNL	100'	FEL	Eddy
Latitude					Longitude			NAD	
32.6803578					-103.9004469			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

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Zeke 12/7 B3DA Fed Com #1H

Sec 12, T19S, R30E

SHL: 710 FNL & 80 FWL, Sec 12

BHL: 660 FNL & 100 FEL, Sec 7

Plan: Design #1

Standard Planning Report

25 January, 2022

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Zeke 12/7 B3DA Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Zeke 12/7 B3DA Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660 FNL & 100 FEL, Sec 7		
Design:	Design #1		

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

Site	Zeke 12/7 B3DA Fed Com #1H		
Site Position:		Northing:	611,400.49 usft
From:	Map	Easting:	664,259.68 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.6801483
		Longitude:	-103.9338189

Well	Sec 12, T19S, R30E		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,496.0 usft
Grid Convergence:	0.22 °	Ground Level:	3,469.0 usft
		Latitude:	32.6801483
		Longitude:	-103.9338189

Wellbore	BHL: 660 FNL & 100 FEL, Sec 7				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.35	60.46	48,470.97662064

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	89.35

Plan Survey Tool Program	Date	1/25/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,682.7	Design #1 (BHL: 660 FNL & 100	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,135.8	0.72	305.28	2,135.8	0.1	-0.2	2.00	2.00	0.00	305.28	
8,981.8	0.72	305.28	8,981.3	49.5	-70.0	0.00	0.00	0.00	0.00	
9,017.6	0.00	0.00	9,017.0	49.7	-70.2	2.00	-2.00	0.00	180.00	KOP: 660 FNL & 10 F
9,915.3	89.77	89.63	9,590.0	53.3	500.5	10.00	10.00	0.00	89.63	
19,682.7	89.77	89.63	9,629.0	116.3	10,267.6	0.00	0.00	0.00	0.00	BHL: 660 FNL & 100 I

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Zeke 12/7 B3DA Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Zeke 12/7 B3DA Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660 FNL & 100 FEL, Sec 7		
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: 710 FNL & 80 FWL (12)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,135.8	0.72	305.28	2,135.8	0.1	-0.2	-0.2	2.00	2.00	0.00
2,200.0	0.72	305.28	2,200.0	0.6	-0.8	-0.8	0.00	0.00	0.00
2,300.0	0.72	305.28	2,300.0	1.3	-1.9	-1.8	0.00	0.00	0.00
2,400.0	0.72	305.28	2,400.0	2.0	-2.9	-2.9	0.00	0.00	0.00
2,500.0	0.72	305.28	2,500.0	2.8	-3.9	-3.9	0.00	0.00	0.00
2,600.0	0.72	305.28	2,600.0	3.5	-4.9	-4.9	0.00	0.00	0.00
2,700.0	0.72	305.28	2,700.0	4.2	-5.9	-5.9	0.00	0.00	0.00
2,800.0	0.72	305.28	2,799.9	4.9	-7.0	-6.9	0.00	0.00	0.00
2,900.0	0.72	305.28	2,899.9	5.6	-8.0	-7.9	0.00	0.00	0.00
3,000.0	0.72	305.28	2,999.9	6.4	-9.0	-8.9	0.00	0.00	0.00
3,100.0	0.72	305.28	3,099.9	7.1	-10.0	-9.9	0.00	0.00	0.00
3,200.0	0.72	305.28	3,199.9	7.8	-11.0	-10.9	0.00	0.00	0.00
3,300.0	0.72	305.28	3,299.9	8.5	-12.1	-12.0	0.00	0.00	0.00
3,400.0	0.72	305.28	3,399.9	9.3	-13.1	-13.0	0.00	0.00	0.00
3,500.0	0.72	305.28	3,499.9	10.0	-14.1	-14.0	0.00	0.00	0.00
3,600.0	0.72	305.28	3,599.9	10.7	-15.1	-15.0	0.00	0.00	0.00
3,700.0	0.72	305.28	3,699.9	11.4	-16.1	-16.0	0.00	0.00	0.00
3,800.0	0.72	305.28	3,799.9	12.1	-17.2	-17.0	0.00	0.00	0.00
3,900.0	0.72	305.28	3,899.9	12.9	-18.2	-18.0	0.00	0.00	0.00
4,000.0	0.72	305.28	3,999.9	13.6	-19.2	-19.0	0.00	0.00	0.00
4,100.0	0.72	305.28	4,099.8	14.3	-20.2	-20.1	0.00	0.00	0.00
4,200.0	0.72	305.28	4,199.8	15.0	-21.2	-21.1	0.00	0.00	0.00
4,300.0	0.72	305.28	4,299.8	15.7	-22.3	-22.1	0.00	0.00	0.00
4,400.0	0.72	305.28	4,399.8	16.5	-23.3	-23.1	0.00	0.00	0.00
4,500.0	0.72	305.28	4,499.8	17.2	-24.3	-24.1	0.00	0.00	0.00
4,600.0	0.72	305.28	4,599.8	17.9	-25.3	-25.1	0.00	0.00	0.00
4,700.0	0.72	305.28	4,699.8	18.6	-26.3	-26.1	0.00	0.00	0.00
4,800.0	0.72	305.28	4,799.8	19.4	-27.4	-27.1	0.00	0.00	0.00
4,900.0	0.72	305.28	4,899.8	20.1	-28.4	-28.1	0.00	0.00	0.00
5,000.0	0.72	305.28	4,999.8	20.8	-29.4	-29.2	0.00	0.00	0.00
5,100.0	0.72	305.28	5,099.8	21.5	-30.4	-30.2	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Zeke 12/7 B3DA Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Zeke 12/7 B3DA Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660 FNL & 100 FEL, Sec 7		
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	0.72	305.28	5,199.8	22.2	-31.4	-31.2	0.00	0.00	0.00
5,300.0	0.72	305.28	5,299.8	23.0	-32.5	-32.2	0.00	0.00	0.00
5,400.0	0.72	305.28	5,399.7	23.7	-33.5	-33.2	0.00	0.00	0.00
5,500.0	0.72	305.28	5,499.7	24.4	-34.5	-34.2	0.00	0.00	0.00
5,600.0	0.72	305.28	5,599.7	25.1	-35.5	-35.2	0.00	0.00	0.00
5,700.0	0.72	305.28	5,699.7	25.8	-36.5	-36.2	0.00	0.00	0.00
5,800.0	0.72	305.28	5,799.7	26.6	-37.5	-37.2	0.00	0.00	0.00
5,900.0	0.72	305.28	5,899.7	27.3	-38.6	-38.3	0.00	0.00	0.00
6,000.0	0.72	305.28	5,999.7	28.0	-39.6	-39.3	0.00	0.00	0.00
6,100.0	0.72	305.28	6,099.7	28.7	-40.6	-40.3	0.00	0.00	0.00
6,200.0	0.72	305.28	6,199.7	29.5	-41.6	-41.3	0.00	0.00	0.00
6,300.0	0.72	305.28	6,299.7	30.2	-42.6	-42.3	0.00	0.00	0.00
6,400.0	0.72	305.28	6,399.7	30.9	-43.7	-43.3	0.00	0.00	0.00
6,500.0	0.72	305.28	6,499.7	31.6	-44.7	-44.3	0.00	0.00	0.00
6,600.0	0.72	305.28	6,599.7	32.3	-45.7	-45.3	0.00	0.00	0.00
6,700.0	0.72	305.28	6,699.6	33.1	-46.7	-46.4	0.00	0.00	0.00
6,800.0	0.72	305.28	6,799.6	33.8	-47.7	-47.4	0.00	0.00	0.00
6,900.0	0.72	305.28	6,899.6	34.5	-48.8	-48.4	0.00	0.00	0.00
7,000.0	0.72	305.28	6,999.6	35.2	-49.8	-49.4	0.00	0.00	0.00
7,100.0	0.72	305.28	7,099.6	36.0	-50.8	-50.4	0.00	0.00	0.00
7,200.0	0.72	305.28	7,199.6	36.7	-51.8	-51.4	0.00	0.00	0.00
7,300.0	0.72	305.28	7,299.6	37.4	-52.8	-52.4	0.00	0.00	0.00
7,400.0	0.72	305.28	7,399.6	38.1	-53.9	-53.4	0.00	0.00	0.00
7,500.0	0.72	305.28	7,499.6	38.8	-54.9	-54.4	0.00	0.00	0.00
7,600.0	0.72	305.28	7,599.6	39.6	-55.9	-55.5	0.00	0.00	0.00
7,700.0	0.72	305.28	7,699.6	40.3	-56.9	-56.5	0.00	0.00	0.00
7,800.0	0.72	305.28	7,799.6	41.0	-57.9	-57.5	0.00	0.00	0.00
7,900.0	0.72	305.28	7,899.5	41.7	-59.0	-58.5	0.00	0.00	0.00
8,000.0	0.72	305.28	7,999.5	42.4	-60.0	-59.5	0.00	0.00	0.00
8,100.0	0.72	305.28	8,099.5	43.2	-61.0	-60.5	0.00	0.00	0.00
8,200.0	0.72	305.28	8,199.5	43.9	-62.0	-61.5	0.00	0.00	0.00
8,300.0	0.72	305.28	8,299.5	44.6	-63.0	-62.5	0.00	0.00	0.00
8,400.0	0.72	305.28	8,399.5	45.3	-64.1	-63.5	0.00	0.00	0.00
8,500.0	0.72	305.28	8,499.5	46.1	-65.1	-64.6	0.00	0.00	0.00
8,600.0	0.72	305.28	8,599.5	46.8	-66.1	-65.6	0.00	0.00	0.00
8,700.0	0.72	305.28	8,699.5	47.5	-67.1	-66.6	0.00	0.00	0.00
8,800.0	0.72	305.28	8,799.5	48.2	-68.1	-67.6	0.00	0.00	0.00
8,900.0	0.72	305.28	8,899.5	48.9	-69.2	-68.6	0.00	0.00	0.00
8,981.8	0.72	305.28	8,981.3	49.5	-70.0	-69.4	0.00	0.00	0.00
9,000.0	0.35	305.28	8,999.5	49.6	-70.1	-69.6	2.00	-2.00	0.00
9,017.6	0.00	0.00	9,017.0	49.7	-70.2	-69.6	2.00	-2.00	0.00
KOP: 660 FNL & 10 FWL (12)									
9,050.0	3.24	89.63	9,049.4	49.7	-69.3	-68.7	10.00	10.00	0.00
9,100.0	8.24	89.63	9,099.2	49.7	-64.3	-63.7	10.00	10.00	0.00
9,150.0	13.24	89.63	9,148.3	49.8	-54.9	-54.4	10.00	10.00	0.00
9,200.0	18.24	89.63	9,196.4	49.8	-41.4	-40.8	10.00	10.00	0.00
9,250.0	23.24	89.63	9,243.1	50.0	-23.7	-23.1	10.00	10.00	0.00
9,300.0	28.24	89.63	9,288.2	50.1	-2.0	-1.4	10.00	10.00	0.00
9,350.0	33.24	89.63	9,331.1	50.3	23.6	24.1	10.00	10.00	0.00
9,372.9	35.53	89.63	9,350.0	50.3	36.5	37.1	10.00	10.00	0.00
FTP/PPP1: 660 FNL & 116 FWL (12)									
9,400.0	38.24	89.63	9,371.7	50.5	52.8	53.3	10.00	10.00	0.00
9,450.0	43.24	89.63	9,409.6	50.7	85.4	86.0	10.00	10.00	0.00
9,500.0	48.24	89.63	9,444.4	50.9	121.2	121.8	10.00	10.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Zeke 12/7 B3DA Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Zeke 12/7 B3DA Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660 FNL & 100 FEL, Sec 7		
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)
9,550.0	53.24	89.63	9,476.1	51.1	159.9	160.5	10.00	10.00	0.00
9,600.0	58.24	89.63	9,504.2	51.4	201.2	201.8	10.00	10.00	0.00
9,650.0	63.24	89.63	9,528.6	51.7	244.8	245.4	10.00	10.00	0.00
9,700.0	68.24	89.63	9,549.2	52.0	290.4	291.0	10.00	10.00	0.00
9,750.0	73.24	89.63	9,565.7	52.3	337.6	338.1	10.00	10.00	0.00
9,800.0	78.24	89.63	9,578.0	52.6	386.0	386.6	10.00	10.00	0.00
9,850.0	83.24	89.63	9,586.0	52.9	435.3	435.9	10.00	10.00	0.00
9,900.0	88.24	89.63	9,589.7	53.2	485.2	485.8	10.00	10.00	0.00
9,915.3	89.77	89.63	9,590.0	53.3	500.5	501.1	10.00	10.00	0.00
9,917.6	89.77	89.63	9,590.0	53.4	502.8	503.4	0.00	0.00	0.00
LP: 660 FNL & 583 FWL (12)									
10,000.0	89.77	89.63	9,590.3	53.9	585.2	585.8	0.00	0.00	0.00
10,100.0	89.77	89.63	9,590.7	54.5	685.2	685.8	0.00	0.00	0.00
10,200.0	89.77	89.63	9,591.1	55.2	785.2	785.8	0.00	0.00	0.00
10,300.0	89.77	89.63	9,591.5	55.8	885.2	885.8	0.00	0.00	0.00
10,400.0	89.77	89.63	9,591.9	56.5	985.2	985.7	0.00	0.00	0.00
10,500.0	89.77	89.63	9,592.3	57.1	1,085.2	1,085.7	0.00	0.00	0.00
10,600.0	89.77	89.63	9,592.7	57.8	1,185.2	1,185.7	0.00	0.00	0.00
10,700.0	89.77	89.63	9,593.1	58.4	1,285.2	1,285.7	0.00	0.00	0.00
10,800.0	89.77	89.63	9,593.5	59.0	1,385.2	1,385.7	0.00	0.00	0.00
10,900.0	89.77	89.63	9,593.9	59.7	1,485.2	1,485.7	0.00	0.00	0.00
11,000.0	89.77	89.63	9,594.3	60.3	1,585.2	1,585.7	0.00	0.00	0.00
11,100.0	89.77	89.63	9,594.7	61.0	1,685.2	1,685.7	0.00	0.00	0.00
11,200.0	89.77	89.63	9,595.1	61.6	1,785.1	1,785.7	0.00	0.00	0.00
11,300.0	89.77	89.63	9,595.5	62.3	1,885.1	1,885.7	0.00	0.00	0.00
11,400.0	89.77	89.63	9,595.9	62.9	1,985.1	1,985.7	0.00	0.00	0.00
11,500.0	89.77	89.63	9,596.3	63.6	2,085.1	2,085.7	0.00	0.00	0.00
11,600.0	89.77	89.63	9,596.7	64.2	2,185.1	2,185.7	0.00	0.00	0.00
11,700.0	89.77	89.63	9,597.1	64.8	2,285.1	2,285.7	0.00	0.00	0.00
11,800.0	89.77	89.63	9,597.5	65.5	2,385.1	2,385.7	0.00	0.00	0.00
11,900.0	89.77	89.63	9,597.9	66.1	2,485.1	2,485.7	0.00	0.00	0.00
11,972.7	89.77	89.63	9,598.2	66.6	2,557.8	2,558.4	0.00	0.00	0.00
PPP2: 660 FNL & 2640 FEL (12)									
12,000.0	89.77	89.63	9,598.3	66.8	2,585.1	2,585.7	0.00	0.00	0.00
12,100.0	89.77	89.63	9,598.7	67.4	2,685.1	2,685.7	0.00	0.00	0.00
12,200.0	89.77	89.63	9,599.1	68.1	2,785.1	2,785.7	0.00	0.00	0.00
12,300.0	89.77	89.63	9,599.5	68.7	2,885.1	2,885.7	0.00	0.00	0.00
12,400.0	89.77	89.63	9,599.9	69.4	2,985.1	2,985.7	0.00	0.00	0.00
12,500.0	89.77	89.63	9,600.3	70.0	3,085.1	3,085.7	0.00	0.00	0.00
12,600.0	89.77	89.63	9,600.7	70.7	3,185.1	3,185.7	0.00	0.00	0.00
12,700.0	89.77	89.63	9,601.1	71.3	3,285.1	3,285.7	0.00	0.00	0.00
12,800.0	89.77	89.63	9,601.5	71.9	3,385.1	3,385.7	0.00	0.00	0.00
12,900.0	89.77	89.63	9,601.9	72.6	3,485.1	3,485.7	0.00	0.00	0.00
13,000.0	89.77	89.63	9,602.3	73.2	3,585.1	3,585.7	0.00	0.00	0.00
13,100.0	89.77	89.63	9,602.7	73.9	3,685.1	3,685.7	0.00	0.00	0.00
13,200.0	89.77	89.63	9,603.1	74.5	3,785.1	3,785.7	0.00	0.00	0.00
13,292.1	89.77	89.63	9,603.5	75.1	3,877.2	3,877.8	0.00	0.00	0.00
PPP3: 660 FNL & 1320 FEL (12)									
13,300.0	89.77	89.63	9,603.5	75.2	3,885.1	3,885.7	0.00	0.00	0.00
13,400.0	89.77	89.63	9,603.9	75.8	3,985.1	3,985.7	0.00	0.00	0.00
13,500.0	89.77	89.63	9,604.3	76.5	4,085.1	4,085.7	0.00	0.00	0.00
13,600.0	89.77	89.63	9,604.7	77.1	4,185.1	4,185.7	0.00	0.00	0.00
13,700.0	89.77	89.63	9,605.1	77.7	4,285.1	4,285.7	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Zeke 12/7 B3DA Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Zeke 12/7 B3DA Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660 FNL & 100 FEL, Sec 7		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,800.0	89.77	89.63	9,605.5	78.4	4,385.1	4,385.7	0.00	0.00	0.00
13,900.0	89.77	89.63	9,605.9	79.0	4,485.1	4,485.7	0.00	0.00	0.00
14,000.0	89.77	89.63	9,606.3	79.7	4,585.1	4,585.7	0.00	0.00	0.00
14,100.0	89.77	89.63	9,606.7	80.3	4,685.1	4,685.7	0.00	0.00	0.00
14,200.0	89.77	89.63	9,607.1	81.0	4,785.1	4,785.7	0.00	0.00	0.00
14,300.0	89.77	89.63	9,607.5	81.6	4,885.1	4,885.7	0.00	0.00	0.00
14,400.0	89.77	89.63	9,607.9	82.3	4,985.1	4,985.7	0.00	0.00	0.00
14,500.0	89.77	89.63	9,608.3	82.9	5,085.1	5,085.7	0.00	0.00	0.00
14,600.0	89.77	89.63	9,608.7	83.6	5,185.1	5,185.7	0.00	0.00	0.00
14,617.1	89.77	89.63	9,608.8	83.7	5,202.1	5,202.8	0.00	0.00	0.00
PPP4: 660 FNL & 0 FWL (7)									
14,700.0	89.77	89.63	9,609.1	84.2	5,285.0	5,285.7	0.00	0.00	0.00
14,800.0	89.77	89.63	9,609.5	84.8	5,385.0	5,385.7	0.00	0.00	0.00
14,900.0	89.77	89.63	9,609.9	85.5	5,485.0	5,485.7	0.00	0.00	0.00
15,000.0	89.77	89.63	9,610.3	86.1	5,585.0	5,585.7	0.00	0.00	0.00
15,100.0	89.77	89.63	9,610.7	86.8	5,685.0	5,685.7	0.00	0.00	0.00
15,200.0	89.77	89.63	9,611.1	87.4	5,785.0	5,785.7	0.00	0.00	0.00
15,300.0	89.77	89.63	9,611.5	88.1	5,885.0	5,885.7	0.00	0.00	0.00
15,400.0	89.77	89.63	9,611.9	88.7	5,985.0	5,985.6	0.00	0.00	0.00
15,500.0	89.77	89.63	9,612.3	89.4	6,085.0	6,085.6	0.00	0.00	0.00
15,600.0	89.77	89.63	9,612.7	90.0	6,185.0	6,185.6	0.00	0.00	0.00
15,700.0	89.77	89.63	9,613.1	90.6	6,285.0	6,285.6	0.00	0.00	0.00
15,800.0	89.77	89.63	9,613.5	91.3	6,385.0	6,385.6	0.00	0.00	0.00
15,900.0	89.77	89.63	9,613.9	91.9	6,485.0	6,485.6	0.00	0.00	0.00
16,000.0	89.77	89.63	9,614.3	92.6	6,585.0	6,585.6	0.00	0.00	0.00
16,100.0	89.77	89.63	9,614.7	93.2	6,685.0	6,685.6	0.00	0.00	0.00
16,200.0	89.77	89.63	9,615.1	93.9	6,785.0	6,785.6	0.00	0.00	0.00
16,300.0	89.77	89.63	9,615.5	94.5	6,885.0	6,885.6	0.00	0.00	0.00
16,400.0	89.77	89.63	9,615.9	95.2	6,985.0	6,985.6	0.00	0.00	0.00
16,500.0	89.77	89.63	9,616.3	95.8	7,085.0	7,085.6	0.00	0.00	0.00
16,600.0	89.77	89.63	9,616.7	96.4	7,185.0	7,185.6	0.00	0.00	0.00
16,700.0	89.77	89.63	9,617.1	97.1	7,285.0	7,285.6	0.00	0.00	0.00
16,800.0	89.77	89.63	9,617.5	97.7	7,385.0	7,385.6	0.00	0.00	0.00
16,900.0	89.77	89.63	9,617.9	98.4	7,485.0	7,485.6	0.00	0.00	0.00
17,000.0	89.77	89.63	9,618.3	99.0	7,585.0	7,585.6	0.00	0.00	0.00
17,100.0	89.77	89.63	9,618.7	99.7	7,685.0	7,685.6	0.00	0.00	0.00
17,143.7	89.77	89.63	9,618.9	100.0	7,728.6	7,729.3	0.00	0.00	0.00
PPP5: 660 FNL & 2640 FEL (7)									
17,200.0	89.77	89.63	9,619.1	100.3	7,785.0	7,785.6	0.00	0.00	0.00
17,300.0	89.77	89.63	9,619.5	101.0	7,885.0	7,885.6	0.00	0.00	0.00
17,400.0	89.77	89.63	9,619.9	101.6	7,985.0	7,985.6	0.00	0.00	0.00
17,500.0	89.77	89.63	9,620.3	102.3	8,085.0	8,085.6	0.00	0.00	0.00
17,600.0	89.77	89.63	9,620.7	102.9	8,185.0	8,185.6	0.00	0.00	0.00
17,700.0	89.77	89.63	9,621.1	103.5	8,285.0	8,285.6	0.00	0.00	0.00
17,800.0	89.77	89.63	9,621.5	104.2	8,385.0	8,385.6	0.00	0.00	0.00
17,900.0	89.77	89.63	9,621.9	104.8	8,485.0	8,485.6	0.00	0.00	0.00
18,000.0	89.77	89.63	9,622.3	105.5	8,585.0	8,585.6	0.00	0.00	0.00
18,100.0	89.77	89.63	9,622.7	106.1	8,685.0	8,685.6	0.00	0.00	0.00
18,200.0	89.77	89.63	9,623.1	106.8	8,784.9	8,785.6	0.00	0.00	0.00
18,300.0	89.77	89.63	9,623.5	107.4	8,884.9	8,885.6	0.00	0.00	0.00
18,400.0	89.77	89.63	9,623.9	108.1	8,984.9	8,985.6	0.00	0.00	0.00
18,500.0	89.77	89.63	9,624.3	108.7	9,084.9	9,085.6	0.00	0.00	0.00
18,600.0	89.77	89.63	9,624.7	109.3	9,184.9	9,185.6	0.00	0.00	0.00
18,700.0	89.77	89.63	9,625.1	110.0	9,284.9	9,285.6	0.00	0.00	0.00

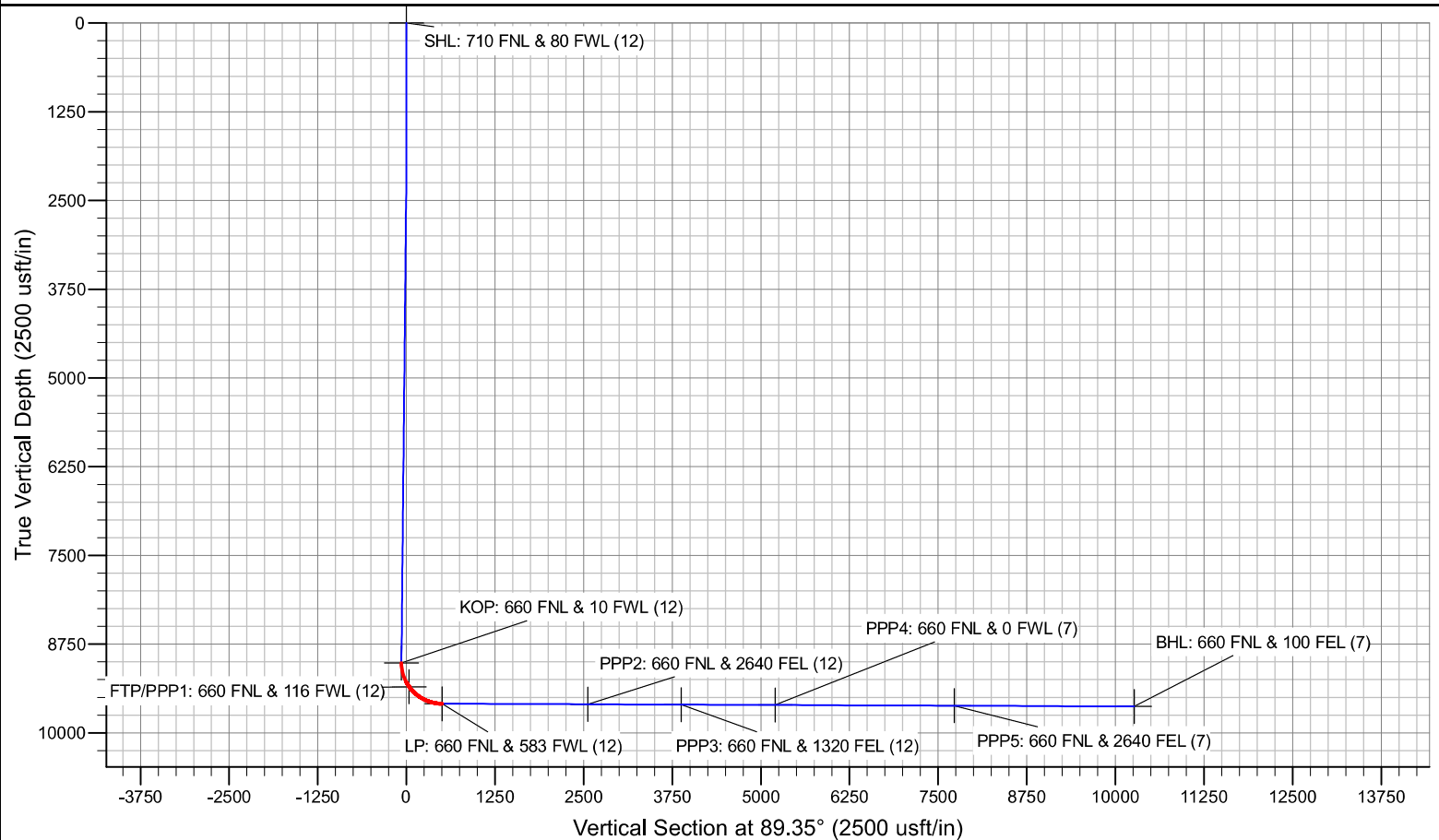
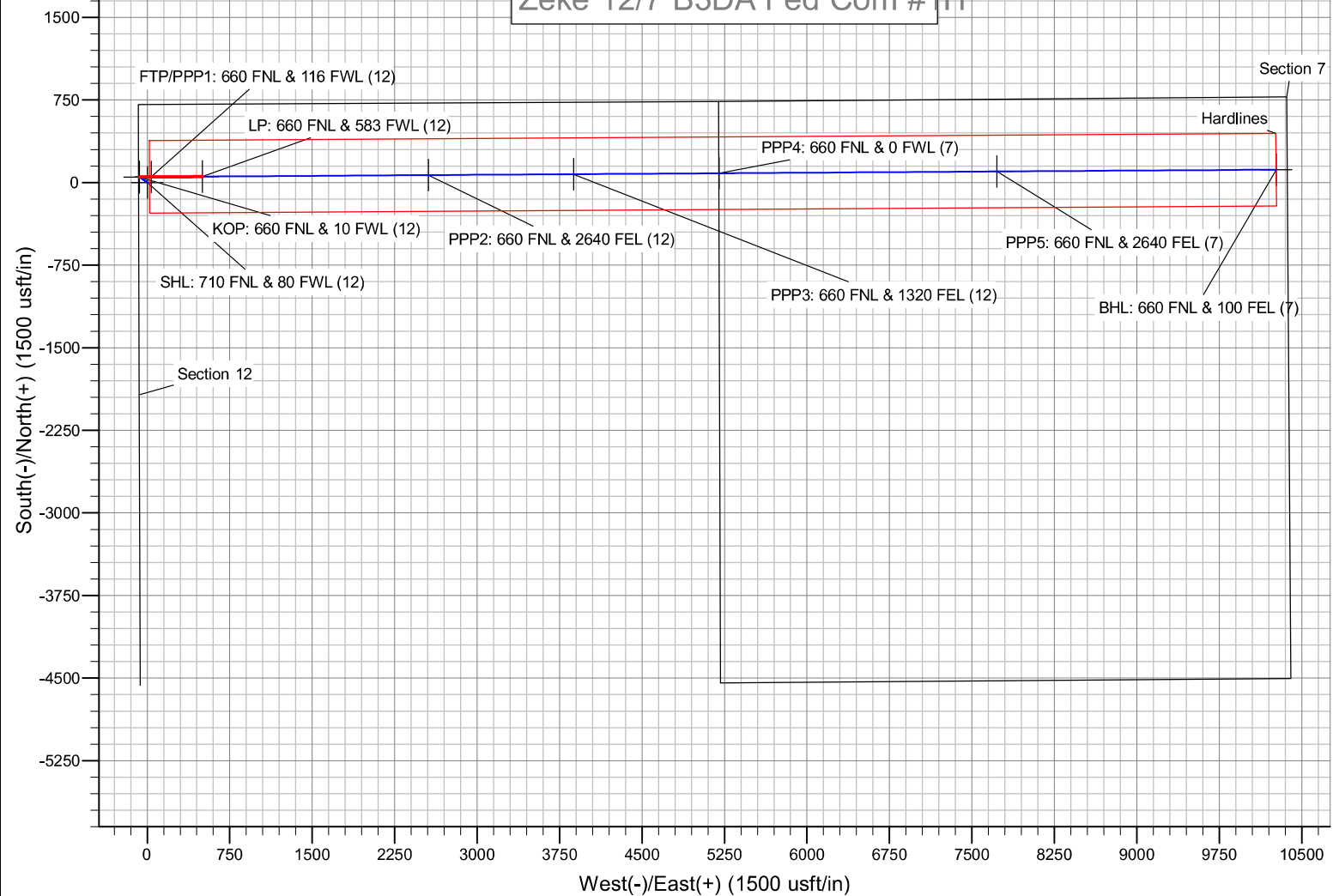
Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Zeke 12/7 B3DA Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3496.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3496.0usft (Original Well Elev)
Site:	Zeke 12/7 B3DA Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T19S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660 FNL & 100 FEL, Sec 7		
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)	
18,800.0	89.77	89.63	9,625.5	110.6	9,384.9	9,385.6	0.00	0.00	0.00	
18,900.0	89.77	89.63	9,625.9	111.3	9,484.9	9,485.6	0.00	0.00	0.00	
19,000.0	89.77	89.63	9,626.3	111.9	9,584.9	9,585.6	0.00	0.00	0.00	
19,100.0	89.77	89.63	9,626.7	112.6	9,684.9	9,685.6	0.00	0.00	0.00	
19,200.0	89.77	89.63	9,627.1	113.2	9,784.9	9,785.6	0.00	0.00	0.00	
19,300.0	89.77	89.63	9,627.5	113.9	9,884.9	9,885.6	0.00	0.00	0.00	
19,400.0	89.77	89.63	9,627.9	114.5	9,984.9	9,985.6	0.00	0.00	0.00	
19,500.0	89.77	89.63	9,628.3	115.2	10,084.9	10,085.6	0.00	0.00	0.00	
19,600.0	89.77	89.63	9,628.7	115.8	10,184.9	10,185.6	0.00	0.00	0.00	
19,682.7	89.77	89.63	9,629.0	116.3	10,267.6	10,268.3	0.00	0.00	0.00	
BHL: 660 FNL & 100 FEL (7)										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL: 710 FNL & 80 FWL - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	611,400.49	664,259.68	32.6801483	-103.9338189	
KOP: 660 FNL & 10 FWI - plan hits target center - Point	0.00	0.00	9,017.0	49.7	-70.2	611,450.15	664,189.50	32.6802855	-103.9340464	
FTP/PPP1: 660 FNL & 1 - plan hits target center - Point	0.00	0.00	9,350.0	50.3	36.5	611,450.84	664,296.18	32.6802863	-103.9336997	
LP: 660 FNL & 583 FWL - plan hits target center - Point	0.00	0.00	9,590.0	53.4	502.8	611,453.85	664,762.50	32.6802897	-103.9321841	
PPP2: 660 FNL & 2640 I - plan hits target center - Point	0.00	0.01	9,598.2	66.6	2,557.8	611,467.10	666,817.50	32.6803046	-103.9255050	
PPP3: 660 FNL & 1320 I - plan hits target center - Point	0.00	0.00	9,603.5	75.1	3,877.2	611,475.61	668,136.90	32.6803140	-103.9212168	
PPP4: 660 FNL & 0 FWL - plan hits target center - Point	0.00	0.00	9,608.8	83.7	5,202.1	611,484.16	669,461.82	32.6803233	-103.9169106	
PPP5: 660 FNL & 2640 I - plan hits target center - Point	0.00	0.00	9,618.9	100.0	7,728.6	611,500.45	671,988.32	32.6803405	-103.9086991	
BHL: 660 FNL & 100 FE - plan hits target center - Point	0.00	0.00	9,629.0	116.3	10,267.6	611,516.82	674,527.30	32.6803574	-103.9004470	

Zeke 12/7 B3DA Fed Com #1H



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MEWBOURNE OIL COMPANY
WELL NAME & NO.: ZEKE 12/7 B3DA FED COM 1H
APD ID: 10400082810
LOCATION: Section 12, T.19 S., R.30 E. NMP.
COUNTY: Eddy County, New Mexico ▼

COA

H₂S	☐ No		☒ Yes	
Potash / WIPP	☐ None	☒ Secretary	☐ R-111-Q	☐ Open Annulus ☐ WIPP
Cave / Karst	☐ Low	☐ Medium	☒ High	☐ Critical
Wellhead	☐ Conventional	☒ Multibowl	☐ Both	☐ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☒ COM	☐ Unit
Waste Prev.	☐ Self-Certification	☒ Waste Min. Plan	☐ APD Submitted prior to 06/10/2024	
Additional Language	☒ Flex Hose ☐ Four-String	☐ Casing Clearance ☒ Offline Cementing	☐ Pilot Hole ☐ Fluid-Filled	☒ Break Testing

A. HYDROGEN SULFIDE

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

B. CASING DESIGN

Primary Casing Design

1. The **13-3/8** inch surface casing shall be set at approximately **530 ft.** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **9-5/8 in.** intermediate casing shall be set at approximately **2,200 ft.** The minimum required fill of cement behind the **9-5/8 inch** intermediate casing is:
 - **Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Cave/Karst and Potash**.

Note: Excess cement is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

 - ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - ❖ In Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. Operator has proposed to set **7 in.** production casing at approximately **9,018 ft.** (9,017 ft. TVD). The minimum required fill of cement behind the **7 in.** production casing is:
 - Cement should tie-back **at least 500 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Cave/Karst and Potash**.
4. The minimum required fill of cement behind the **4-1/2 in.** production liner is:
 - Cement should tie-back **at least 100 feet** into previous casing string. Operator shall provide method of verification.

Alternate Casing Design

1. The **13-3/8 inch** surface casing shall be set at approximately **530 ft.** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature

survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **9-5/8 in.** intermediate casing shall be set at approximately **2,200 ft.** The minimum required fill of cement behind the **9-5/8 inch** intermediate casing is:
 - **Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Cave/Karst and Potash**.

Note: Excess cement is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

- ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - ❖ In Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. Operator has proposed to set **7 in.** production casing at approximately **9,918 ft.** (9,590 ft. TVD). The minimum required fill of cement behind the **7 in.** production casing is:
 - Cement should tie-back **at least 500 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **Cave/Karst and Potash**.
 4. The minimum required fill of cement behind the **4-1/2 in.** production liner is:
 - Cement should tie-back **at least 100 feet** into previous casing string. Operator shall provide method of verification.

Offline Cementing

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

C. PRESSURE CONTROL

1. Variance approved to use **flex line** from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**. The BOP/BOPE and annular preventer shall be pressure-tested in accordance with **title 43 CFR 3172**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in the **title 43 CFR 3172.6(b)(9)** must be followed.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).

- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well,

after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

- b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

- i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M

BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two hour clock.

- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

SA 11/25/2024

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:** ZEKE 12/7 B3DA FED COM**Well Number:** 1H**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?****WCuttings area liner****Cuttings area liner specifications and installation description**

Operator Name: MEWBOURNE OIL COMPANY

Well Name: ZEKE 12/7 B3DA FED COM

Well Number: 1H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

Zeke12_7B3DAFedCom1H_wellsitelayout_20220119144912.pdf

Comments: None

Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance Multiple Well Pad Name: TIN MAN 1/6 B3 & SCARECROW 11/10
B3 & Zeke 12/7 B3 Fed wells
Multiple Well Pad Number: 6

Recontouring

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

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

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

Existing Vegetation at the well pad

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 437898

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 437898
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mleal	Cement is required to circulate on both surface and intermediate1 strings of casing.	2/28/2025
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	2/28/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	3/10/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	3/10/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	3/10/2025