Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-015-56942 10. Field and Pool, or Exploratory 3a. Address 3b. Phone No. (include area code) 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office\* 12. County or Parish 13. State 15. Distance from proposed\* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location\* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Name (Printed/Typed) Date Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



\*(Instructions on page 2)

#### **INSTRUCTIONS**

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

#### NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48( d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

# **Additional Operator Remarks**

#### **Location of Well**

0. SHL: SENW / 2350 FNL / 1460 FWL / TWSP: 23S / RANGE: 30E / SECTION: 16 / LAT: 32.305917 / LONG: -103.8900725 ( TVD: 0 feet, MD: 0 feet )

PPP: SWNW / 2641 FNL / 338 FWL / TWSP: 23S / RANGE: 30E / SECTION: 4 / LAT: 32.3341629 / LONG: -103.893851 ( TVD: 10756 feet, MD: 21445 feet )

PPP: SWSW / 0 FSL / 350 FWL / TWSP: 23S / RANGE: 30E / SECTION: 4 / LAT: 32.3269023 / LONG: -103.8938368 ( TVD: 10759 feet, MD: 18804 feet )

PPP: SWSW / 0 FSL / 350 FWL / TWSP: 23S / RANGE: 30E / SECTION: 9 / LAT: 32.3123933 / LONG: -103.8938084 ( TVD: 10765 feet, MD: 13525 feet )

PPP: SWNW / 2308 FNL / 330 FWL / TWSP: 23S / RANGE: 30E / SECTION: 16 / LAT: 32.3060527 / LONG: -103.8938036 ( TVD: 10768 feet, MD: 11219 feet )

BHL: NWNW / 330 FNL / 330 FWL / TWSP: 23S / RANGE: 30E / SECTION: 4 / LAT: 32.3405422 / LONG: -103.8938636 ( TVD: 10753 feet, MD: 23766 feet )

#### **BLM Point of Contact**

Name: PAMELLA HERNANDEZ

Title: LIE

Phone: (575) 234-5954

Email: PHERNANDEZ@BLM.GOV

# **Review and Appeal Rights**

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



C-102

API Number

Property Code 336611

OGRID No.

Submit Electronically

Via OCD Permitting

30-015-56942

14744

Pool Code

Property Name

Operator Name

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Suriac	e Owner:	State Fee	□Tribal □Fe	ederal		Mineral Owner:	☐ State ☐ Fe	ee L Triba	l Federal				
					Surfa	ice Location							
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County			
F	16	23S	30E		2350 FNL	1460 FWL	32.3059	173°N	103.8901372°W	EDDY			
		1	1	l	Bottom	Hole Location	I						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County			
D	4	23S	30E	4	330 FNL	330 FWL	32.3405	442°N	103.8938636°W	EDDY			
	1	1	1	l	<u> </u>				1				
Dedica	ted Acres	Infill or Defi	ining Well	Defining	g Well API	Overlapping Spa	ncing Unit (Y/I	N) Consol	idation Code				
16	800.4	DEFININ	G WELL										
Order 1	Numbers.					Well setbacks ar	e under Comm	on Owners	ship: 🗆 Yes 🗆 No				
					Kick O	ff Point (KOP)							
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County			
L	16	23S	30E		2414 FSL		32.3044	778°N	103.8937927°W	EDDY			
						ke Point (FTP)							
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County			
E	16	23S	30E		2308 FNL	330 FWL	32.3060	527°N	103.8937957°W	EDDY			
					Last Ta	ke Point (LTP)							
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County			
D	4	23S	3S   30E   4   330 FNL   330 F		330 FWL	32.3405	442°N	103.8938636°W	EDDY				
		1	1	<u> </u>					1				
Unitize	d Area or A	rea of Uniform	Interest	Spacing	Unit Type Hori	zontal   Vertical	Gr	ound Floor	Elevation: 316	ე'			
									310	<u>ა</u>			
OPER	ATOR CER	TIFICATION	 S			SURVEYOR CER	RTIFICATION	S					
				d	unlata to the best of				what was plotted from field no	ton of notice			
my kno	vledge and beli	ief, and , if the we	ll is a vertical or	directional		surveys made by me u	ne wen tocation s inder my supervi	nown on this	plat was plotted from field no the same is true and correct t	o the best of			
		ns a working inter l bottom hole loca				my belief.		W ME					
					or unleased mineral g order heretofore			St.	(8 ) <u>a</u> l				
	by the division.		iem or a compani	ory poorum	g oraci neretojore	(10690)							
					has received the	THE STATE OF THE S							
					sed mineral interest e well's completed	TUS/ONAL SURVE							
interval	will be located	l or obtained a co	mpulsory pooling	order from	the division.		/.0	SONAL	SUP				
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Signatur Zvar	∕ McDan	امان	Date			Signature and Seal of Pro		1					
tyai	IVICDAN					' Kobert M	1. How	261 					
Printed Name						Certificate Number	Date of S	urvey					
Printed N	RyanMcDaniel@Mewbourne.com						19680 05 /06 /2021						
	anMcDa	iniel@Me	wbourne.	com		19680		(	05/06/2021				

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

98220

WELL LOCATION INFORMATION

Pool Name

MEWBOURNE OIL COMPANY

FORTY NINER RIDGE UNIT COM

Revised July 9, 2024

138H

3135'

Initial Submittal

☐ Amended Report

☐ As Drilled

Ground Level Elevation

Submittal

PURPLE SAGE WOLFCAMP

Well Number

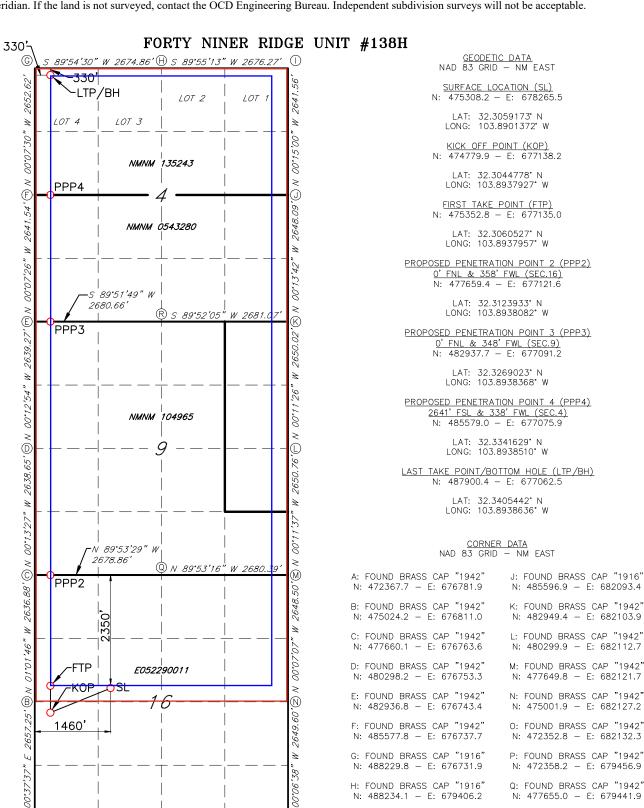
Type:

Received by OCD: 6/28/2025 10:12:19 PM

#### 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.



90.00

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N 89\*47'48" W 2675.62' P N 89\*53'06" W 2675.95

N: 488234.1 - E: 679406.2 I: FOUND BRASS CAP "1916"

N: 488237.8 - E: 682081.8

N: 477655.0 - E: 679441.9

R: FOUND BRASS CAP "1942"

N: 482943.2 - E: 679423.4

# State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN														
This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.														
Section 1 – Plan Description  Effective May 25, 2021														
I. Operator:Mev	vbourne (	Oil Co.	OGRID:	14744	Date:	12/30/24								
II. Type: X 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 be recompleted from a s	e following int	formation for each or connected to a c	new or recomple central delivery p	ooint.		be drilled or proposed to								
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D								
Forty Niner Ridge Unit #138H		F 16 23S 30E	2350' FNL x 1460'	FWL 1200	4100	3600								
				Y1: 1200, Y2: 400, Y3: 200	Y1: 4000, Y2: 2000, Y3: 1000	Y1: 5000, Y2: 1200, Y3: 750								
IV. Central Delivery P  V. Anticipated Schedul proposed to be recompleted.	le: Provide the		tion for each nev			9.15.27.9(D)(1) NMAC] s proposed to be drilled or								
Well Name	API	Spud Date	TD Reached Date	Completion Commencement										
Forty Niner Ridge Unit #138H		10/2/21	11/2/21	12/2/21	12/17/	21 12/17/21								
VII. Operational Prac Subsection A through F	tices: X Attac of 19.15.27.8 nt Practices: §	ch a complete desc NMAC.	ription of the ac	tions Operator wil	l take to comply	at to optimize gas capture.  with the requirements of tices to minimize venting								

Section 2 – Enhanced Pl	an
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 $\square$ will $\square$ will not have capacity to gather 100% of the anticipated na	tural gas
production volume from the well prior to the date of first production.	

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

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: 2	Bradley Bishop
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	12/30/24
Phone:	575-393-5905
	OIL CONSERVATION DIVISION  (Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of App	oroval:
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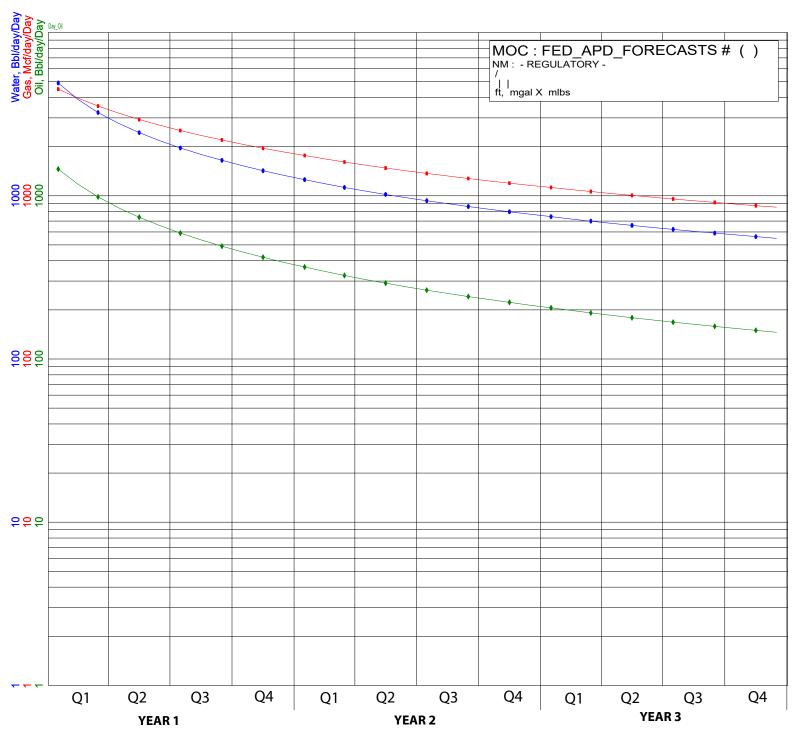
#### Mewbourne Oil Company

## 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€DDYWFMP2.5 Ref= 1/2025 Cum= 430408 430408 Rem= EUR= 3.000 Yrs= Qi= 1645.0 0.950000 b= De= 77.000000 Df= 24.155973 Qab= 143.9 Gas, Mcf/day ■ Qual €DDYWFMP2.5 Ref= 1/2025 Cum= 1903434 Rem= 1903434 3.000 4825.0 EUR= Yrs= Qi= b= 1.100000 62.500000 De= Df= 20.355806 Qab= 841.9 Water, Bbl/d • Qual €DDYWFMP2.5 Ref= Cum= 1474750 1474750 3.000 5625.0 Rem= EUR= Yrs= Qi= 1.100000 b= De= 77.000000 21.653105 Df= Qab= 542.2



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

# Drilling Plan Data Report

05/06/2025

APD ID: 10400102874

Submission Date: 01/08/2025

Highlighted data reflects the most recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Number: 138H

Well Type: OIL WELL

Well Work Type: Drill

**Show Final Text** 

# **Section 1 - Geologic Formations**

Well Name: FORTY NINER RIDGE UNIT COM

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15514569			28	OTHER: Topsoil	NONE	N	
15514581	TOP SALT	2785	350	350	SALT	NONE	N
15514577	LAMAR	-390	3525	3525	LIMESTONE	NATURAL GAS, OIL	N
15514573	BELL CANYON	-415	3550	3573	SANDSTONE	NATURAL GAS, OIL	N
15514574	CHERRY CANYON	-1340	4475	4505	SANDSTONE	NATURAL GAS, OIL	N
15514575	MANZANITA	-1490	4625	4657	LIMESTONE	NATURAL GAS, OIL	N
15514582	BRUSHY CANYON	-2640	5775	5815	SANDSTONE	NATURAL GAS, OIL	N
15514568	BONE SPRING	-4240	7375	7427	LIMESTONE, SHALE	NATURAL GAS, OIL	Y
15514571	BONE SPRING 1ST	-5265	8400	8460	SANDSTONE	NATURAL GAS, OIL	N
15514572	BONE SPRING 2ND	-5885	9020	9085	SANDSTONE	NATURAL GAS, OIL	N
15514550	BONE SPRING 3RD	-7195	10330	10410	SANDSTONE	NATURAL GAS, OIL	N
15514585	WOLFCAMP	-7635	10770	11219	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

## **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M Rating Depth: 23766

Equipment: Annular, Pipe Rams, Blind Rams

Requesting Variance? YES

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

Well Name: FORTY NINER RIDGE UNIT COM Well Number: 138H

testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater, will be performed.

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

# **Choke Diagram Attachment:**

5M\_BOPE\_Choke\_Diagram\_20241230081543.pdf

3\_String\_Cactus\_Wellhead\_Schematic\_20241230081545.pdf

#### **BOP Diagram Attachment:**

3\_String\_Multi\_Bowl\_WH\_20241230081554.pdf

5M\_BOPE\_Schematic\_20241230081554.pdf

Flex\_Line\_Specs\_API\_16C\_20241230081556.pdf

Mewbourne\_Break\_Testing\_Variance\_20241230081603.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	300	0	300	3135	2835	300	H-40	48	ST&C	5.74	12.9	DRY	22.3 6	DRY	37.5 7
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3385	0	3385	3220	-250	3385	J-55	36	LT&C	1.13	1.96	DRY	3.72	DRY	4.63
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	10319	0	10195	3220	-7060	10319	P- 110	26	LT&C	1.21	1.93	DRY	2.58	DRY	3.09
4	LINER	6.12 5	4.5	NEW	API	N	10119	23766	9989	10753	-6854	-7618	13647	P- 110	13.5	LT&C	1.69	1.96	DRY	1.83	DRY	2.29

#### **Casing Attachments**

Well Name: FORTY NINER RIDGE UNIT COM Well Number: 138H

Casing ID: 1

String

**SURFACE** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

13.375in\_48\_\_H40\_STC\_Csg\_20241230081655.pdf

Casing ID: 2

**String** 

INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

9.625in\_36\_\_J55\_LTC\_Csg\_20241230081732.pdf

Casing ID: 3

String

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

7in\_26\_\_P110\_LTC\_Csg\_20241230081819.pdf

Well Name: FORTY NINER RIDGE UNIT COM Well Number: 138H

# **Casing Attachments**

Casing ID: 4

String

**LINER** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $4.5 in\_13.5 \_\_P110\_LTC\_Csg\_20241230081858.pdf$ 

# **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	116	80	2.12	12.5	170	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		116	300	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	2769	510	2.12	12.5	1090	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		2769	3450	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		4450	7248	200	2.12	12.5	430	0	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		7248	1031 9	400	1.18	15.6	472	0	Class C	Retarder
LINER	Lead		1011 9	2376 6	870	1.85	13.5	1610	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Well Name: FORTY NINER RIDGE UNIT COM Well Number: 138H

# **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: Lost circulation material Sweeps Mud scavengers in surface hole

Describe the mud monitoring system utilized: 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)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	300	SPUD MUD	8.4	8.6							
300	3450	SALT SATURATED	10	10.2							
3450	1121 9	WATER-BASED MUD	8.6	9.7							
1121 9	2376 6	OIL-BASED MUD	10	11.3							

# **Section 6 - Test, Logging, Coring**

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

Will run GR/CNL in offset well Forty Niner Ridge Unit #144H.

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

Well Name: FORTY NINER RIDGE UNIT COM Well Number: 138H

## **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 6327 Anticipated Surface Pressure: 3958

**Anticipated Bottom Hole Temperature(F):** 140

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

Describe:

**Contingency Plans geoharzards description:** 

**Contingency Plans geohazards** 

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S\_Plan\_20241230082353.pdf

# **Section 8 - Other Information**

#### Proposed horizontal/directional/multi-lateral plan submission:

Forty\_Niner\_Ridge\_Unit\_138H\_MOC\_Dir\_Plan\_20250127100508.pdf

Forty\_Niner\_Ridge\_Unit\_138H\_MOC\_Dir\_Plot\_20250127100508.pdf

Other proposed operations facets description:

# Other proposed operations facets attachment:

Forty\_Niner\_Ridge\_Unit\_138H\_NGMP\_20241230083814.pdf

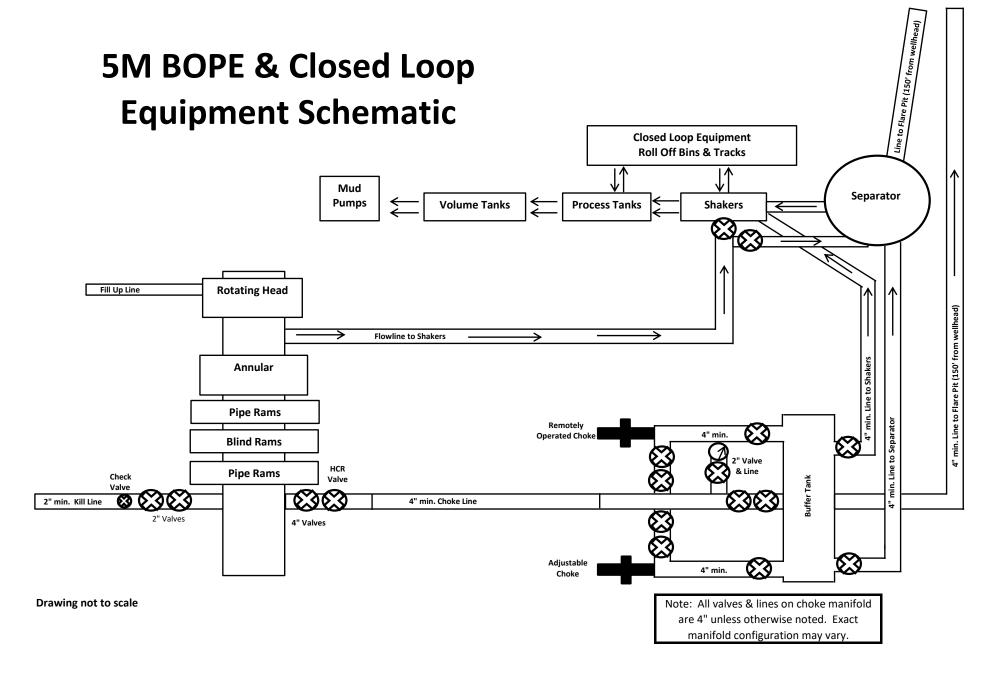
Forty\_Niner\_Ridge\_Unit\_138H\_Drlg\_Program\_20250127100514.pdf

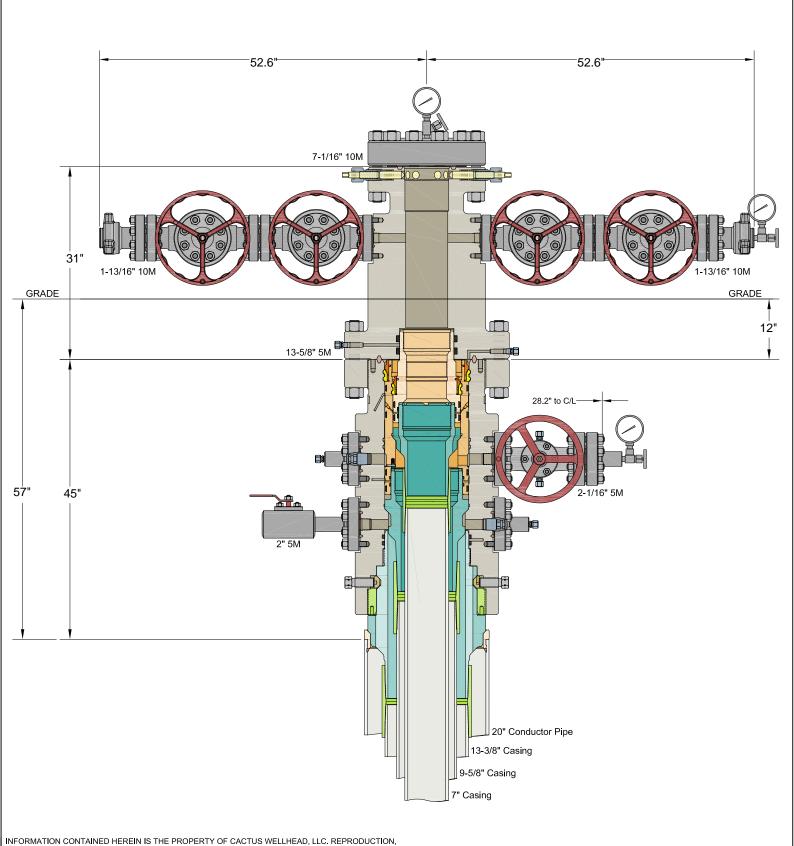
# Other Variance attachment:

Mewbourne\_Offline\_Cementing\_Variance\_20241230082530.pdf

Mewbourne\_Break\_Testing\_Variance\_20241230082549.pdf

Forty\_Niner\_Ridge\_Unit\_138H\_R\_111Q\_Csg\_\_\_Cmt\_Assumptions\_20241230110646.pdf





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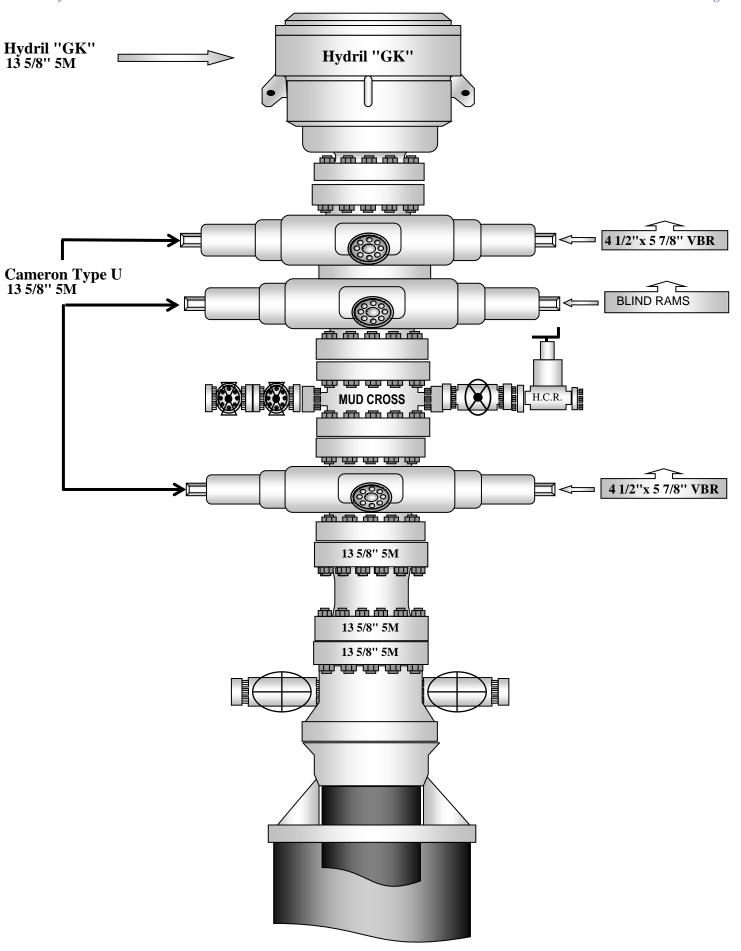
# CACTUS WELLHEAD LLC

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

# ALL DIMENSIONS APPROXIMATE MEWBOURNE OIL COMPANY NEW MEXICO

DRAWN DLE 18APR22
APPRV

DRAWING NO. HBE0000660





# LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

# HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

№: 230826015

LI I 1/QR-5./.1-20				Nº: 230820013			
Product Name	Cho	ke And Kill Hose		Standard	I AP	I Spec 16C 3 <sup>rd</sup> edition	
Product Specification	3″×1000	3"×10000psi×60ft (18.29m)			ber	7660144	
Inspection Equipment	MTU	J-BS-1600-3200-E		Test mediu	ım	Water	
Inspection Department	C	.C. Department		Inspection I	Date	2023.08.26	
		Rate of le	ength chang	ge	,	varance	
Standard requirements	At working pro	essure, the rate of le	ngth chang	ge should not m	nore than ±2	%	
Testing result	10000psi (69.0	MPa) ,Rate of leng	th change	0.7%			
	1	Hydrosta	atic testing				
Standard requirements		orking pressure, the				ess than three minutes	
Testing result	15000psi (103	.5MPa), 3 min for the	he first tim	e, 60 min for th	ne second time	e, no leakage	
Graph of pressure testing:							
100 90 90 90 90 90 90 90 90 90							
Conclusion The inspected items meet standard requirements of API Spec 16C 3 <sup>rd</sup> edition							
Approver ];	awlong Chen	Auditor	1/1:3	ng Dong	Inspector	Zhansheng War	



# LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

# **CERTIFICATE OF QUALITY**

# LTYY/QR-5.7.1-19B

№: LT2023-126-002

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

Inspection Items					Inspection results			
	Appearance Checking					In accordance with API Spec 16C 3 <sup>rd</sup> edition		
	Size and Lengths					In accordance with API Spec 16C 3 <sup>rd</sup> edition		
1	Dimensions and Tolerances					nce with API Spec	16C 3 <sup>rd</sup> edition	
End Connections: 4-	End Connections: 4-1/16"×10000psi Integral flange for sour gas service					In accordance with API Spec 6A 21st edition		
End Connections: 4-	End Connections: 4-1/16"×10000psi Integral flange for sour gas service				In accordance with API Spec 17D 3 <sup>rd</sup> edition			
	Hydrostatic Testing					In accordance with API Spec 16C 3 <sup>rd</sup> edition		
	product Marking					In accordance with API Spec 16C 3 <sup>rd</sup> edition		
Inspection conclusion The inspected items m				ms me	eet standard requirer	ments of API Spec	16C 3 <sup>rd</sup> edition	
Remarks								
Approver	Jian long C	ihen	Auditor	1/1	riging 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.

Jiav long Chen

QC Manager:

Date: Aug 26, 2023



# 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* (5<sup>th</sup> 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.



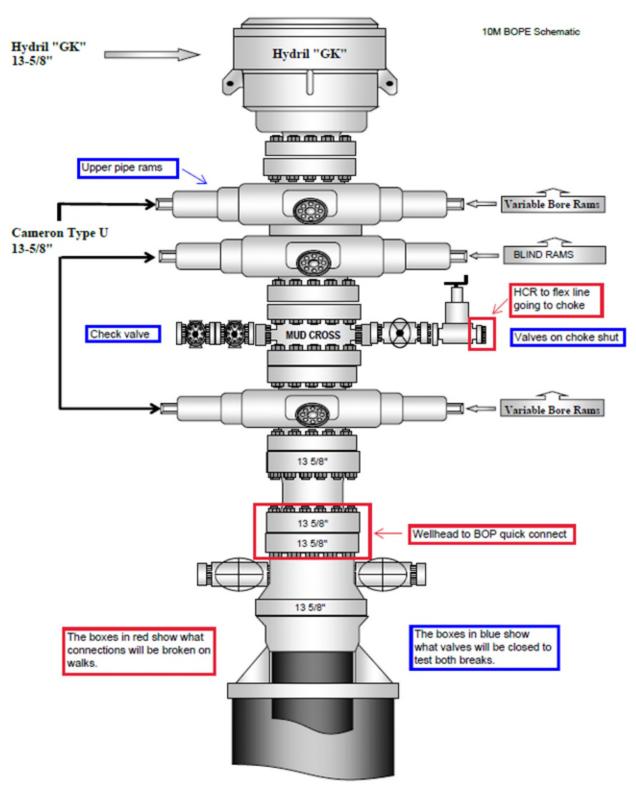


Figure 1. BOP diagram



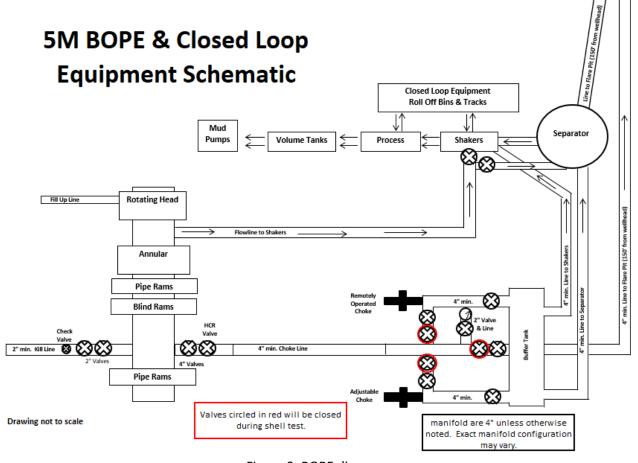


Figure 2. BOPE diagram





Figure 3. BOP handling system





Figure 4. BOP handling system



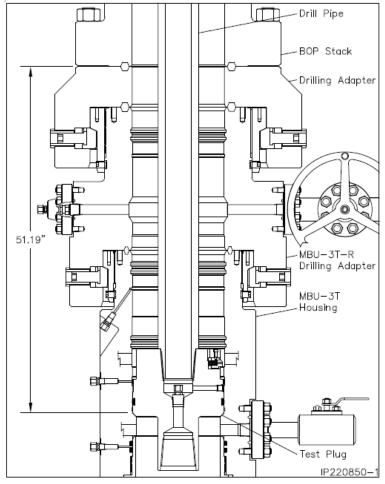


Figure 5. Cactus 5M wellhead with BOP quick connect

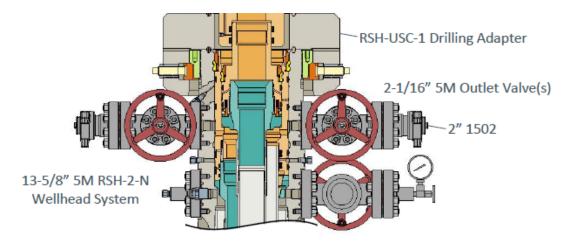


Figure 6. Vault 5M wellhead with BOP quick connect

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# **API STC**

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

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

#### Pipe Body Data

Geometry			
Nominal OD	13.375 in.	Drift	12.559 in.
Wall Thickness	0.330 in.	Plain End Weight	46.02 lb/ft
Nominal Weight	48 lb/ft	OD Tolerance	API
Nominal ID	12.715 in.		

Pe	rformance	
SMYS	3	40,000 psi
Min U	лѕ	60,000 psi
Body	Yield Strength	541 x1000 lb
Min. I	Internal Yield Pressure	1730 psi
Colla	pse Pressure	740 psi
Max.	Allowed Bending	14 °/100 ft

#### **Connection Data**

Geometry	
Thread per In	8
Connection OD	14.375 in.
Hand Tight Stand Off	3.500 in.

Performance	
Joint Strength	322 x1000 lb
Coupling Face Load	377 x1000 lb
Internal Pressure Capacity	1730 psi

Make-Up Torques	
Minimum Torque	2420 ft-lb
Optimum Torque	3220 ft-lb
Maximum Torque	4030 ft-lb

#### Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

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

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

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**API LTC** 

Coupling Pipe Body

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

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

#### Pipe Body Data

Geometry			
Nominal OD	9.625 in.	Drift	8.765 in.
Wall Thickness	0.352 in.	Plain End Weight	34.89 lb/ft
Nominal Weight	36 lb/ft	OD Tolerance	API
Nominal ID	8.921 in.		

Performance	
SMYS	55,000 psi
Min UTS	75,000 psi
Body Yield Strength	564 x1000 lb
Min. Internal Yield Pressure	3520 psi
Collapse Pressure	2020 psi
Max. Allowed Bending	26 °/100 ft

#### **Connection Data**

Geometry	
Thread per In	8
Connection OD	10.625 in.
Hand Tight Stand Off	3.500 in.

Performance	
Joint Strength	453 x1000 lb
Coupling Face Load	433 x1000 lb
Internal Pressure Capacity	3520 psi

Make-Up Torques	
Minimum Torque	3400 ft-lb
Optimum Torque	4530 ft-lb
Maximum Torque	5660 ft-lb

#### Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

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

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**API LTC** 

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

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

#### Pipe Body Data

Geometry			
Nominal OD	7.000 in.	Drift	6.151 in.
Wall Thickness	0.362 in.	Plain End Weight	25.69 lb/ft
Nominal Weight	26 lb/ft	OD Tolerance	API
Nominal ID	6.276 in.		

Performance	
SMYS	110,000 psi
Min UTS	125,000 psi
Body Yield Strength	830 x1000 lb
Min. Internal Yield Pressure	9960 psi
Collapse Pressure	6230 psi
Max. Allowed Bending	72 °/100 ft

#### **Connection Data**

Geometry	
Thread per In	8
Connection OD	7.875 in.
Hand Tight Stand Off	3 in.

Performance	
Joint Strength	693 x1000 lb
Coupling Face Load	799 x1000 lb
Internal Pressure Capacity	9960 psi

Make-Up Torques	
Minimum Torque	5200 ft-lb
Optimum Torque	6930 ft-lb
Maximum Torque	8660 ft-lb

#### Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

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

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

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**API LTC** 

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

Outside Diameter	4.500 in.	Wall Thickness	0.290 in.	Grade	P110
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	Regular				

#### Pipe Body Data

Geometry			
Nominal OD	4.500 in.	Drift	3.795 in.
Wall Thickness	0.290 in.	Plain End Weight	13.05 lb/ft
Nominal Weight	13.500 lb/ft	OD Tolerance	API
Nominal ID	3.920 in.		

Performance	
SMYS	110,000 psi
Min UTS	125,000 psi
Body Yield Strength	422 x1000 lb
Min. Internal Yield Pressure	12,410 psi
Collapse Pressure	10,690 psi
Max. Allowed Bending	112 °/100 ft

#### **Connection Data**

Geometry	
Thread per In	8
Connection OD	5.250 in.
Hand Tight Stand Off	3 in.

Performance	
Joint Strength	338 x1000 lb
Coupling Face Load	473 x1000 lb
Internal Pressure Capacity	12,410 psi

Make-Up Torques	
Minimum Torque	2750 ft-lb
Optimum Torque	3660 ft-lb
Maximum Torque	4580 ft-lb

#### Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

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

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

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

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HL: 2350' FNL 1460' FWL (Sec 16 BHL: 100' FNL 330' FWL (Sec 4)

Well Location GL: 3135'

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 2350' FNL & 1460' FWL (Sec 16)	State	SENW	16	23S	30E	Eddy	32.3059170	- 103.8900725	0'	0'
KOP	KOP: 2414' FSL & 330' FWL (Sec 16)	State	NWSW	16	23S	30E	Eddy	32.3044778	- 103.8937927	10,195'	10,319'
FTP	FTP: 2308' FNL & 330' FWL (Sec 16)	State	SWNW	16	23S	30E	Eddy	32.3060527	- 103.8937957	10,768'	11,219'
PPP2	PPP2: 0' FSL & 350' FWL (Sec 9)	NMNM104965	SWSW	9	23S	30E	Eddy	32.3123933	- 103.8938084	10,765'	13,525'
PPP3	PPP3: 0' FSL & 350' FWL (Sec 4)	NMNM0543280	SWSW	4	23S	30E	Eddy	32.3269023	- 103.8938368	10,759'	18,804'
PPP4	PPP4: 2641' FNL & 338' FWL (Sec 4)	NMNM135243	SWNW	4	23S	30E	Eddy	32.3341629	- 103.8938510	10,756'	21,445'
BHL	BHL: 330' FNL & 330' FWL (Sec 4)	NMNM135243	NWNW	4	23S	30E	Eddy	32.3405422	- 103.8938636	10,753'	23,766'

#### GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler				Yeso			
Castile				Delaware (Lamar)	3525'	Limestone/Dolomite	Oil/Natural Gas
Salt Top	350'	Salt	None	Bell Canyon	3550'	Sandstone	Oil/Natural Gas
Marker Bed 126				Cherry Canyon	4475'	Sandstone	Oil/Natural Gas
Salt Base				Manzanita Marker	4625'	Limestone	Oil/Natural Gas
Yates				Basal Brushy Canyon	5775'	Sandstone	Oil/Natural Gas
Seven Rivers				Bone Spring	7375'	Limestone	Oil/Natural Gas
Queen				1st Bone Spring	8400'	Sandstone	Oil/Natural Gas
Capitan				2nd Bone Spring	9020'	Sandstone	Oil/Natural Gas
Grayburg				3rd Bone Spring	10330'	Sandstone	Oil/Natural Gas
San Andres				Wolfcamp	10770'	Shale/Sandstone/Limestone	Oil/Natural Gas

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	300'	300'	13.375" 48# H40 STC	5.74	12.90	22.36	37.57
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96	3.72	4.63
Production	8.75"	0'	0'	10319'	10195'	7" 26# P110 LTC	1.21	1.93	2.58	3.09
Liner	6.125"	10119'	9989'	23766'	10753'	4.5" 13.5# P110 LTC	1.69	1.96	1.83	2.29

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

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

SHL: 2350' FNL 1460' FWL (Sec 16 BHL: 100' FNL 330' FWL (Sec 4)

#### Design A - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft <sup>3</sup> /sack	TOC/BOC	Volume, ft <sup>3</sup>	% Excess	Slurry Description
13.375 in	LEAD	80	12.5	2.12	0' - 116'	170	100%	Class C: Salt, Gel, Extender, LCM
13.375 III	TAIL	200	14.8	1.34	116' - 300'	268	100%	Class C: Retarder
9.625 in	LEAD	510	12.5	2.12	0' - 2769'	1090	25%	Class C: Salt, Gel, Extender, LCM
9.023 III	TAIL	200	14.8	1.34	2769' - 3450'	268	2370	Class C: Retarder
7 in	LEAD	200	12.5	2.12	4450' - 7248'	430	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
/ III	TAIL	400	15.6	1.18	7248' - 10319'	472	U70	Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	870	13.5	1.85	10119' - 23766'	1610	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

#### Pressure Control Equipment

BOP installed and tested before drilling hole, in:	Size, in	System Rated WP		Туре		Tested to:	Rating Depth
		5M		Annular	X 250	2500#/3500#	
	13.375		Blind Ram		X	5000#	23,766'
12.25		5M	Pipe Ram		X		
		-	Do	Double Ram		3000#	
			Other*				

<sup>\*</sup>Specify if additional ram is utilized.

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

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

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

Y	Formation integrity test will be performed per 43 CFR Part 3172.  On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3172.	
N	Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack.	

#### Mud Program

Depth (MD)	Mud Wt., lb/gal	Mud Type
0' - 300'	8.4 - 8.6	Fresh Water
300' - 3450'	10.0 - 10.2	Brine
3450' - 10319'	8.6 - 9.7	Cut-Brine
10319' - 23766'	10.0 - 11.3	OBM

10319' - 23766' 10.0 - 11.3 OBM

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

What will be used to monitor the loss or gain of fluid?	Pacon/PVT/Vicual Monitoring

BHL: 100' FNL 330' FWL (Sec 4)

#### Logging and Testing Procedures

Loggin	g, Coring and Testing.
N	Will run GR/CNL from KOP (10319') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No logs are planned based on well control or offset log information. Offset Well: Forty Niner Ridge Unit #144H
N	Coring? If yes, explain:

#### Open & Cased Hole Logs Run In the Well

Caliper	Cement Bond Log		CNL/FDC
Compensated Densilog	Compensated Neutron Log		Computer Generated Log
Dip Meter Log	Directional Survey		Dual Induction/Microresistivity
Dual Lateral Log/Microspherically Focused	☐ Electric Log		Formation Density Compensated Log
Gamma Ray Log			Mud Log/Geological Lithology Log
Other	☐ Porosity-Resistivity Log	Е	Sidewall Neutron Log
Sonic Log	Spontaneous Potential Log		Temperature Log

#### **Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	6327 psi
BH Temperature	140
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present
X	H2S Plan attached

BHL: 100' FNL 330' FWL (Sec 4)

#### Other facets of operation

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

Offline Cementing Variance: Variance is requested to perform offline cementing according to the attached procedure. R-111Q: Mewbourne proposes performing Open Hole Cementing per R-111Q Guidelines if well is in Potash.

		Casina Proa	ram Design B			BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
		BEN Minimum Salety Factors	1.123	1.0	1.8 Wet	1.8 Wet				
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt	SF Body Tension
Surface	17.5"	0'	0'	300'	300'	13.375" 48# H40 STC	5.74	12.90	22.36	37.57
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96	3.72	4.63
Production	8.75"	0'	0'	11219'	10768'	7" 26# HCP110 LTC	1.44	1.83	2.38	2.85
Liner	6.125"	10319'	10195'	23766'	10753'	4.5" 13.5# P110 LTC	1.69	1.96	1.86	2.32

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

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

#### Design B - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft <sup>3</sup> /sack	TOC/BOC	Volume, ft <sup>3</sup>	% Excess	Slurry Description			
13.375 in	LEAD	80	12.5	2.12	0' - 116'	170	100%	Class C: Salt, Gel, Extender, LCM			
13.375 III	TAIL	200	14.8	1.34	116' - 300'	268	100%	Class C: Retarder			
9.625 in	LEAD	510	12.5	2.12	0' - 2769'	1090	25%	Class C: Salt, Gel, Extender, LCM			
9.023 III	TAIL	200	14.8	1.34	2769' - 3450'	268	2370	Class C: Retarder			
7 in	LEAD	260	12.5	2.12	4450' - 8123'	560	0%	Class H: Salt, Gel, Extender, LCM, Defoamer			
/ III	TAIL	400	15.6	1.18	8123' - 11219'	472	076	Class H: Retarder, Fluid Loss, Defoamer			
4.5 in	LEAD	850	13.5	1.85	10319' - 23766'	1580	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent			

# **Mewbourne Oil Company**

Eddy County, New Mexico NAD 83 Forty Niner Ridge Unit #138H

Sec 16, T23S, R30E

SHL: 2350' FNL & 1460' FWL (Sec 16) BHL: 330' FNL & 330' FWL (Sec 4)

Plan: Design #1

# **Standard Planning Report**

24 January, 2025

Database: Hobbs
Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Forty Niner Ridge Unit #138H

Well: Sec 16, T23S, R30E
Wellbore: BHL: 330' FNL & 330' FWL (Sec 4)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Site Forty Niner Ridge Unit #138H

WELL @ 3163.0usft (Original Well Elev) WELL @ 3163.0usft (Original Well Elev)

Grid

Minimum Curvature

Project Eddy County, New Mexico NAD 83

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum:

Ground Level

Site Forty Niner Ridge Unit #138H

 Site Position:
 Northing:
 475,308.20 usft
 Latitude:
 32.3059173

 From:
 Map
 Easting:
 678,265.50 usft
 Longitude:
 -103.8901372

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

**Well** Sec 16, T23S, R30E

**Well Position** +N/-S 0.0 usft Northing: 475,308.20 usft Latitude: 32.3059173 +E/-W 0.0 usft Easting: 678,265.50 usft Longitude: -103.8901372 **Position Uncertainty** 0.0 usft Wellhead Elevation: 3,163.0 usft **Ground Level:** 3,135.0 usft

Grid Convergence: 0.24  $^{\circ}$ 

Wellbore BHL: 330' FNL & 330' FWL (Sec 4)

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2010
 12/31/2014
 7.30
 60.12
 48,253.95379653

Design #1

Audit Notes:

Version:Phase:PROTOTYPETie On Depth:0.0

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S +E/-W (usft)
 Direction (usft)

 0.0
 0.0
 0.0
 354.54

Plan Survey Tool Program Date 12/27/2024

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.0 23,766.3 Design #1 (BHL: 330' FNL & 330'

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	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,185.4	11.71	244.89	4,181.3	-25.3	-54.0	2.00	2.00	0.00	244.89	
9,733.2	11.71	244.89	9,613.7	-503.0	-1,073.3	0.00	0.00	0.00	0.00	
10,318.5	0.00	0.00	10,195.0	-528.3	-1,127.3	2.00	-2.00	0.00	180.00	KOP: 2414' FSL & 33
11,219.3	90.07	359.67	10,768.0	45.4	-1,130.6	10.00	10.00	0.00	-0.33	
23,766.3	90.07	359.67	10,753.0	12,592.2	-1,203.0	0.00	0.00	0.00	0.00	BHL: 330' FNL & 330'

Database: Hobbs

Company:Mewbourne Oil CompanyProject:Eddy County, New Mexico NAD 83Site:Forty Niner Ridge Unit #138H

Well: Sec 16, T23S, R30E
Wellbore: BHL: 330' FNL & 330' FWL (Sec 4)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Site Forty Niner Ridge Unit #138H WELL @ 3163.0usft (Original Well Elev) WELL @ 3163.0usft (Original Well Elev)

Grid

ed 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: 2350' F	NL & 1460' FWL	. (Sec 16)							
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
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	2.00	244.89	3,700.0	-0.7	-1.6	-0.6	2.00	2.00	0.00
3,800.0	4.00	244.89	3,799.8	-3.0	-6.3	-2.3	2.00	2.00	0.00
3,900.0	6.00	244.89	3,899.5	-6.7	-14.2	-5.3	2.00	2.00	0.00
4,000.0	8.00	244.89	3,998.7	-11.8	-25.2	-9.4	2.00	2.00	0.00
4,100.0	10.00	244.89	4,097.5	-18.5	-39.4	-14.6	2.00	2.00	0.00
4,185.4	11.71	244.89	4,181.3	-25.3	-54.0	-20.0	2.00	2.00	0.00
4,200.0	11.71	244.89	4,195.6	-26.6	-56.7	-21.0	0.00	0.00	0.00
4,300.0	11.71	244.89	4,293.6	-35.2	-75.0	-27.9	0.00	0.00	0.00
4,400.0	11.71	244.89	4,391.5	-43.8	-93.4	-34.7	0.00	0.00	0.00
4,500.0	11.71	244.89	4,489.4	-52.4	-111.8	-41.5	0.00	0.00	0.00
4,600.0	11.71	244.89	4,587.3	-61.0	-130.2	-48.3	0.00	0.00	0.00
4,700.0	11.71	244.89	4,685.2	-69.6	-148.5	-55.2	0.00	0.00	0.00
4,800.0	11.71	244.89	4,783.1	-78.2	-166.9	-62.0	0.00	0.00	0.00
4,900.0	11.71	244.89	4,881.1	-86.8	-185.3	-68.8	0.00	0.00	0.00
5,000.0 5,100.0	11.71 11.71	244.89 244.89	4,979.0 5,076.9	-95.4 -104.0	-203.6 -222.0	-75.6 -82.5	0.00 0.00	0.00 0.00	0.00 0.00

Hobbs Database:

Company: Mewbourne Oil Company Project: Eddy County, New Mexico NAD 83 Forty Niner Ridge Unit #138H Site:

Well: Sec 16, T23S, R30E BHL: 330' FNL & 330' FWL (Sec 4) Wellbore:

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

**Survey Calculation Method:** 

Site Forty Niner Ridge Unit #138H WELL @ 3163.0usft (Original Well Elev) WELL @ 3163.0usft (Original Well Elev)

Grid Minimum Curvature

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	11.71	244.89	5,174.8	-112.7	-240.4	-89.3	0.00	0.00	0.00
5,300.0	11.71	244.89	5,272.7	-121.3	-258.8	-96.1	0.00	0.00	0.00
5,400.0	11.71	244.89	5,370.7	-129.9	-277.1	-102.9	0.00	0.00	0.00
5,500.0	11.71	244.89	5,468.6	-138.5	-295.5	-109.8	0.00	0.00	0.00
5,600.0	11.71	244.89	5,566.5	-147.1	-313.9	-116.6	0.00	0.00	0.00
5,700.0	11.71	244.89	5,664.4	-155.7	-332.3	-123.4	0.00	0.00	0.00
5,800.0 5,900.0	11.71 11.71	244.89 244.89	5,762.3 5,860.3	-164.3 -172.9	-350.6 -369.0	-130.2 -137.1	0.00	0.00	0.00 0.00
6,000.0	11.71	244.89	5,958.2	-181.5	-387.4	-143.9	0.00	0.00	0.00
6,100.0	11.71	244.89	6,056.1	-190.2	-405.8	-150.7	0.00	0.00	0.00
6,200.0	11.71	244.89	6,154.0	-198.8	-424.1	-157.5	0.00	0.00	0.00
6,300.0	11.71	244.89	6,251.9	-207.4	-442.5	-164.4	0.00	0.00	0.00
6,400.0	11.71	244.89	6,349.9	-216.0	-460.9	-171.2	0.00	0.00	0.00
6,500.0	11.71	244.89	6,447.8	-224.6	-479.3	-178.0	0.00	0.00	0.00
6,600.0	11.71	244.89	6,545.7	-233.2	-497.6	-184.8	0.00	0.00	0.00
6,700.0	11.71	244.89	6,643.6	-241.8	-516.0	-191.7		0.00	0.00
6,800.0	11.71	244.89	6,741.5	-250.4	-534.4	-198.5	0.00	0.00	0.00
6,900.0	11.71	244.89	6,839.5	-259.0	-552.8	-205.3		0.00	0.00
7,000.0	11.71	244.89	6,937.4	-267.7	-571.1	-212.1	0.00	0.00	0.00
7,100.0	11.71	244.89	7,035.3	-276.3	-589.5	-219.0	0.00	0.00	0.00
7,200.0	11.71	244.89	7,133.2	-284.9	-607.9	-225.8	0.00	0.00	0.00
7,300.0	11.71	244.89	7,231.1	-293.5	-626.3	-232.6	0.00	0.00	0.00
7,400.0	11.71	244.89	7,329.1	-302.1	-644.6	-239.4	0.00	0.00	0.00
7,500.0	11.71	244.89	7,427.0	-310.7	-663.0	-246.3	0.00	0.00	0.00
7,600.0	11.71	244.89	7,524.9	-319.3	-681.4	-253.1	0.00	0.00	0.00
7,700.0	11.71	244.89	7,622.8	-327.9	-699.8	-259.9		0.00	0.00
7,800.0 7,900.0	11.71 11.71	244.89 244.89	7,720.7 7,818.7	-336.5 -345.2	-718.1 -736.5	-266.7 -273.5	0.00	0.00	0.00 0.00
8,000.0	11.71	244.89	7,916.6	-353.8	-754.9	-280.4	0.00	0.00	0.00
8,100.0	11.71	244.89	8,014.5	-362.4	-773.2	-287.2	0.00	0.00	0.00
8,200.0	11.71	244.89	8,112.4	-371.0	-791.6	-294.0	0.00	0.00	0.00
8,300.0	11.71	244.89	8,210.3	-379.6	-810.0	-300.8	0.00	0.00	0.00
8,400.0 8,500.0	11.71 11.71	244.89 244.89	8,308.3 8,406.2	-388.2 -396.8	-828.4 -846.7	-307.7 -314.5	0.00 0.00	0.00 0.00 0.00	0.00 0.00
8,600.0	11.71	244.89	8,504.1	-405.4	-865.1	-321.3	0.00	0.00	0.00
8,700.0	11.71	244.89	8,602.0	-414.0	-883.5	-328.1	0.00	0.00	0.00
8,800.0	11.71	244.89	8,699.9	-422.7	-901.9	-335.0	0.00	0.00	0.00
8,900.0	11.71	244.89	8,797.8	-431.3	-920.2	-341.8	0.00	0.00	0.00
9,000.0	11.71	244.89	8,895.8	-439.9	-938.6	-348.6	0.00	0.00	0.00
9,100.0	11.71	244.89	8,993.7	-448.5	-957.0	-355.4	0.00	0.00	0.00
9,200.0	11.71	244.89	9,091.6	-457.1	-975.4	-362.3	0.00	0.00	0.00
9,300.0 9,400.0	11.71 11.71	244.89 244.89	9,189.5 9,287.4	-465.7 -474.3	-993.7 -1,012.1	-369.1 -375.9	0.00	0.00	0.00 0.00
9,500.0	11.71	244.89	9,385.4	-482.9	-1,030.5	-382.7	0.00	0.00	0.00
9,600.0	11.71	244.89	9,483.3	-491.5	-1,048.9	-389.6	0.00	0.00	0.00
9,700.0	11.71	244.89	9,581.2	-500.2	-1,067.2	-396.4	0.00	0.00	0.00
9,733.2	11.71	244.89	9,613.7	-503.0	-1,073.3	-398.7	0.00	0.00	0.00
9,800.0	10.37	244.89	9,679.3	-508.4	-1,084.9	-403.0	2.00	-2.00	0.00
9,900.0	8.37	244.89	9,777.9	-515.3	-1,099.7	-408.4	2.00	-2.00	0.00
10,000.0	6.37	244.89	9,877.1	-520.8	-1,111.3	-412.7	2.00	-2.00	0.00
10,100.0	4.37	244.89	9,976.7	-524.8	-1,119.8	-415.9	2.00	-2.00	0.00
10,200.0	2.37	244.89	10,076.5	-527.3	-1,125.1	-417.9	2.00	-2.00	0.00
10,300.0	0.37	244.89	10,176.5	-528.3	-1,127.2	-418.7	2.00	-2.00	0.00
10,318.5	0.00	0.00	10,195.0	-528.3	-1,127.3	-418.7	2.00	-2.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Forty Niner Ridge Unit #138H
Well: Sec 16, T23S, R30E

Wellbore: BHL: 330' FNL & 330' FWL (Sec 4)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Forty Niner Ridge Unit #138H WELL @ 3163.0usft (Original Well Elev) WELL @ 3163.0usft (Original Well Elev)

Grid

ned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
					. =				
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
KOP: 2414	' FSL & 330' FWL	(Sec 16)							
10,350.0		359.67	10,226.4	-527.4	-1,127.3	-417.8	10.00	10.00	0.00
10,400.0	8.14	359.67	10,276.2	-522.5	-1,127.3	-412.9	10.00	10.00	0.00
10,450.0	13.14	359.67	10,325.3	-513.3	-1,127.4	-403.7	10.00	10.00	0.00
10,500.0	18.14	359.67	10.373.4	-499.8	-1,127.5	-390.3	10.00	10.00	0.00
10,550.0		359.67	10,420.2	-482.2	-1,127.6	-372.8	10.00	10.00	0.00
10,600.0		359.67	10,465.3	-460.6	-1,127.7	-351.2	10.00	10.00	0.00
10,650.0		359.67	10,508.3	-435.1	-1,127.8	-325.8	10.00	10.00	0.00
10,700.0		359.67	10,548.9	-406.0	-1,128.0	-296.8	10.00	10.00	0.00
10,750.0		359.67	10,586.8	-373.4	-1,128.2	-264.4	10.00	10.00	0.00
10,730.0		359.67	10,621.8	-337.7	-1,128.4	-204.4	10.00	10.00	0.00
10,850.0		359.67	10,653.5	-299.0	-1,128.6	-190.3	10.00	10.00	0.00
10,830.0		359.67	10,681.7	-257.8	-1,128.9	-149.2	10.00	10.00	0.00
10,950.0		359.67	10,706.2	-214.2	-1,120.9	-145.2	10.00	10.00	0.00
			,						
11,000.0		359.67	10,726.8	-168.7	-1,129.4	-60.5	10.00	10.00	0.00
11,050.0		359.67	10,743.4	-121.5	-1,129.6	-13.5	10.00	10.00	0.00
11,100.0		359.67	10,755.8	-73.1	-1,129.9	34.7	10.00	10.00	0.00
11,150.0		359.67	10,763.9	-23.8	-1,130.2	83.8	10.00	10.00	0.00
11,200.0	88.14	359.67	10,767.7	26.1	-1,130.5	133.5	10.00	10.00	0.00
11,218.5		359.67	10,768.0	44.6	-1,130.6	151.9	10.00	10.00	0.00
	308' FNL & 330' FV	, ,							
11,219.3		359.67	10,768.0	45.4	-1,130.6	152.7	10.00	10.00	0.00
11,300.0		359.67	10,767.9	126.1	-1,131.1	233.1	0.00	0.00	0.00
11,400.0		359.67	10,767.8	226.1	-1,131.7	332.7	0.00	0.00	0.00
11,500.0	90.07	359.67	10,767.7	326.1	-1,132.2	432.3	0.00	0.00	0.00
11,600.0		359.67	10,767.5	426.1	-1,132.8	531.9	0.00	0.00	0.00
11,700.0		359.67	10,767.4	526.1	-1,133.4	631.5	0.00	0.00	0.00
11,800.0		359.67	10,767.3	626.1	-1,134.0	731.1	0.00	0.00	0.00
11,900.0		359.67	10,767.2	726.1	-1,134.5	830.7	0.00	0.00	0.00
12,000.0	90.07	359.67	10,767.1	826.1	-1,135.1	930.3	0.00	0.00	0.00
12,100.0	90.07	359.67	10,766.9	926.1	-1,135.7	1,029.9	0.00	0.00	0.00
12,200.0	90.07	359.67	10,766.8	1,026.1	-1,136.3	1,129.5	0.00	0.00	0.00
12,300.0	90.07	359.67	10,766.7	1,126.1	-1,136.8	1,229.1	0.00	0.00	0.00
12,400.0	90.07	359.67	10,766.6	1,226.1	-1,137.4	1,328.7	0.00	0.00	0.00
12,500.0	90.07	359.67	10,766.5	1,326.1	-1,138.0	1,428.3	0.00	0.00	0.00
12,600.0	90.07	359.67	10,766.3	1,426.1	-1,138.6	1,527.9	0.00	0.00	0.00
12,700.0		359.67	10,766.2	1,526.0	-1,139.2	1,627.5	0.00	0.00	0.00
12,800.0		359.67	10,766.1	1,626.0	-1,139.7	1,727.1	0.00	0.00	0.00
12,900.0		359.67	10,766.0	1,726.0	-1,140.3	1,826.7	0.00	0.00	0.00
13,000.0		359.67	10,765.9	1,826.0	-1,140.9	1,926.3	0.00	0.00	0.00
13,100.0		359.67	10,765.8	1,926.0	-1,141.5	2,025.9	0.00	0.00	0.00
13,200.0		359.67	10,765.6	2,026.0	-1,142.0	2,125.5	0.00	0.00	0.00
13,300.0		359.67	10,765.5	2,126.0	-1,142.6	2,225.1	0.00	0.00	0.00
13,400.0		359.67	10,765.4	2,226.0	-1,143.2	2,324.7	0.00	0.00	0.00
13,500.0		359.67	10,765.3	2,326.0	-1,143.8	2,424.3	0.00	0.00	0.00
13,525.2		359.67	10,765.2	2,351.2	-1,143.9	2,449.4	0.00	0.00	0.00
	SL & 350' FWL (Se		10,700.2	2,001.2	-1,1+3.∂	۷,٦٦٥.٦	0.00	0.00	0.00
13,600.0		359.67	10,765.2	2,426.0	-1,144.3	2,523.9	0.00	0.00	0.00
13,700.0		359.67	10,765.0	2,526.0	-1,144.9	2,623.5	0.00	0.00	0.00
13,800.0		359.67	10,764.9	2,626.0	-1,144.9	2,723.1	0.00	0.00	0.00
13,900.0		359.67	10,764.8	2,726.0	-1,146.1	2,822.7	0.00	0.00	0.00
14,000.0		359.67	10,764.7	2,826.0	-1,146.7	2,922.3	0.00	0.00	0.00
14,100.0	90.07	359.67	10,764.6	2,926.0	-1,147.2	3,021.9	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Forty Niner Ridge Unit #138H
Well: Sec 16, T23S, R30E

Wellbore: BHL: 330' FNL & 330' FWL (Sec 4)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Forty Niner Ridge Unit #138H WELL @ 3163.0usft (Original Well Elev) WELL @ 3163.0usft (Original Well Elev)

Grid

No.   No	lanned Survey									
14,400 90.07 359.67 10,764.2 3,126.0 -1,148.4 3,221.1 0.00 0.00 0.00 0.00 14,400 90.07 359.67 10,764.2 3,226.0 -1,149.0 3,320.7 0.00 0.00 0.00 0.00 14,500 90.07 359.67 10,764.0 3,426.0 -1,150.1 3,519.9 0.00 0.00 0.00 14,500 90.07 359.67 10,763.8 3,526.0 -1,150.7 3,519.9 0.00 0.00 0.00 14,500 90.07 359.67 10,763.8 3,526.0 -1,150.7 3,519.9 0.00 0.00 0.00 14,500 90.07 359.67 10,763.8 3,526.0 -1,150.7 3,519.9 0.00 0.00 0.00 14,500 90.07 359.67 10,763.8 3,526.0 -1,150.7 3,519.9 0.00 0.00 0.00 14,500 90.7 359.67 10,763.8 3,726.0 -1,151.8 3,518.7 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,763.6 3,726.0 -1,151.8 3,518.7 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,763.6 3,726.0 -1,151.8 3,719.1 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,763.1 4,126.0 -1,154.2 4,318.3 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,763.1 4,126.0 -1,154.2 4,318.3 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,763.1 4,126.0 -1,154.2 4,318.3 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,763.1 4,126.0 -1,154.2 4,171.5 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,763.1 4,126.0 -1,154.2 4,171.5 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,763.0 4,226.0 -1,155.5 4,451.5 9 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,762.5 4,426.0 -1,156.5 4,416.3 0.00 0.00 0.00 15,500 90.07 359.67 10,762.5 4,426.0 -1,156.5 4,416.3 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,762.5 4,426.0 -1,156.5 4,416.3 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,762.5 4,426.0 -1,156.5 4,416.3 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,762.5 4,426.0 -1,156.5 4,416.3 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,762.5 4,426.0 -1,156.5 4,416.3 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,762.5 4,526.0 -1,156.5 4,515.9 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,762.5 4,526.0 -1,168.8 5,013.9 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,762.5 4,526.0 -1,168.8 5,013.9 0.00 0.00 0.00 0.00 15,500 90.07 359.67 10,762.5 4,526.0 -1,168.9 5,115.5 0.00 0.00 0.00 0.00 16,500 90.07 359.67 10,762.5 4,526.0 -1,168.9 5,115.5 0.00 0.00 0.00 0.00 16,500 90.07 359.67 10,762.5 5,260 -1,168.8 5,115.7 0.00 0.00 0.00 0.00 16,50	Depth			Depth			Section	Rate	Rate	Rate
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15,100.0   90.07   359.67   10,763.4   3,326.0   -1,153.0   4,017.9   0,00   0,00   0,00   15,300.0   90.07   359.67   10,763.1   4,126.0   -1,154.2   4,217.1   0,00   0,00   0,00   0,00   15,400.0   90.07   359.67   10,763.0   4,226.0   -1,154.2   4,217.1   0,00   0,00   0,00   0,00   15,500.0   90.07   359.67   10,762.9   4,328.0   -1,155.3   4,416.3   0,00   0,00   0,00   15,500.0   90.07   359.67   10,762.9   4,328.0   -1,155.9   4,515.9   0,00   0,00   0,00   15,500.0   90.07   359.67   10,762.6   4,426.0   -1,155.9   4,515.9   0,00   0,00   0,00   15,500.0   90.07   359.67   10,762.5   4,426.0   -1,157.0   4,715.1   0,00   0,00   0,00   15,500.0   90.07   359.67   10,762.5   4,426.0   -1,157.0   4,715.1   0,00   0,00   0,00   15,500.0   90.07   359.67   10,762.5   4,426.0   -1,157.0   4,715.1   0,00   0,00   0,00   0,00   15,500.0   90.07   359.67   10,762.3   4,826.0   -1,157.0   4,151.3   0,00   0,00   0,00   16,000.0   90.07   359.67   10,762.3   4,826.0   -1,158.2   4,914.3   0,00   0,00   0,00   16,300.0   90.07   359.67   10,762.0   4,926.0   -1,158.2   4,914.3   0,00   0,00   0,00   16,300.0   90.07   359.67   10,761.9   5,126.0   -1,159.3   5,113.5   0,00   0,00   0,00   16,300.0   90.07   359.67   10,761.8   5,226.0   -1,159.3   5,113.5   0,00   0,00   0,00   16,500.0   90.07   359.67   10,761.8   5,226.0   -1,159.3   5,113.5   0,00   0,00   0,00   16,500.0   90.07   359.67   10,761.8   5,226.0   -1,161.5   5,312.7   0,00   0,00   0,00   16,500.0   90.07   359.67   10,761.8   5,226.0   -1,161.5   5,312.7   0,00   0,00   0,00   16,500.0   90.07   359.67   10,761.8   5,226.0   -1,161.5   5,312.7   0,00   0,00   0,00   16,500.0   90.07   359.67   10,761.8   5,226.0   -1,161.5   5,312.7   0,00   0,00   0,00   16,500.0   90.07   359.67   10,761.8   5,226.0   -1,161.5   5,312.7   0,00   0,00   0,00   16,500.0   90.07   359.67   10,761.8   5,226.0   -1,161.5   5,611.5   0,00   0,00   0,00   16,500.0   90.07   359.67   10,761.8   5,226.0   -1,161.5   5,611.5   0,00   0,00   0,00   16,500.0   90.07   35										
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17,800.0 90.07 359.67 10,760.1 6,626.0 -1,168.6 6,707.1 0.00 0.00 0.00 17,900.0 90.07 359.67 10,760.0 6,726.0 -1,169.2 6,806.7 0.00 0.00 0.00 0.00 18,000.0 90.07 359.67 10,759.9 6,826.0 -1,170.3 7,005.9 0.00 0.00 0.00 0.00 18,200.0 90.07 359.67 10,759.7 7,026.0 -1,170.9 7,105.5 0.00 0.00 0.00 0.00 18,300.0 90.07 359.67 10,759.5 7,126.0 -1,170.9 7,105.5 0.00 0.00 0.00 0.00 18,400.0 90.07 359.67 10,759.4 7,225.9 -1,172.0 7,304.7 0.00 0.00 0.00 0.00 18,600.0 90.07 359.67 10,759.4 7,225.9 -1,172.0 7,304.7 0.00 0.00 0.00 0.00 18,600.0 90.07 359.67 10,759.2 7,425.9 -1,172.6 7,404.3 0.00 0.00 0.00 0.00 18,700.0 90.07 359.67 10,759.1 7,525.9 -1,173.2 7,503.9 0.00 0.00 0.00 0.00 18,800.0 90.07 359.67 10,759.1 7,525.9 -1,173.8 7,603.5 0.00 0.00 0.00 0.00 18,800.0 90.07 359.67 10,758.9 7,625.9 -1,174.3 7,703.1 0.00 0.00 0.00 0.00 18,800.0 90.07 359.67 10,758.9 7,625.9 -1,174.4 7,706.6 0.00 0.00 0.00 0.00 0.00 18,800.0 90.07 359.67 10,758.9 7,625.9 -1,174.4 7,706.6 0.00 0.00 0.00 0.00 0.00 18,800.0 90.07 359.67 10,758.9 7,625.9 -1,174.4 7,706.6 0.00 0.00 0.00 0.00 0.00 18,800.0 90.07 359.67 10,758.9 7,625.9 -1,174.4 7,706.6 0.00 0.00 0.00 0.00 0.00 19,000.0 90.07 359.67 10,758.7 7,825.9 -1,175.5 7,902.3 0.00 0.00 0.00 0.00 19,000.0 90.07 359.67 10,758.6 7,925.9 -1,175.5 7,902.3 0.00 0.00 0.00 0.00 19,000.0 90.07 359.67 10,758.6 7,925.9 -1,176.1 8,001.9 0.00 0.00 0.00 0.00 19,200.0 90.07 359.67 10,758.6 7,925.9 -1,176.1 8,001.9 0.00 0.00 0.00 0.00 0.00 19,200.0 90.07 359.67 10,758.6 7,925.9 -1,176.1 8,001.9 0.00 0.00 0.00 0.00 0.00 0.00 0.00		90.07								
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18,100.0       90.07       359.67       10,759.8       6,926.0       -1,170.3       7,005.9       0.00       0.00       0.00         18,200.0       90.07       359.67       10,759.7       7,026.0       -1,170.9       7,105.5       0.00       0.00       0.00         18,300.0       90.07       359.67       10,759.5       7,126.0       -1,171.5       7,205.1       0.00       0.00       0.00         18,400.0       90.07       359.67       10,759.4       7,225.9       -1,172.0       7,304.7       0.00       0.00       0.00         18,500.0       90.07       359.67       10,759.3       7,325.9       -1,172.6       7,404.3       0.00       0.00       0.00         18,600.0       90.07       359.67       10,759.2       7,425.9       -1,173.2       7,503.9       0.00       0.00       0.00         18,700.0       90.07       359.67       10,759.1       7,525.9       -1,173.8       7,603.5       0.00       0.00       0.00         18,800.0       90.07       359.67       10,758.9       7,625.9       -1,174.3       7,703.1       0.00       0.00       0.00         PPP3: 0' FSL & 350' FWL (Sec 4)         18,90	17,900.0	90.07	359.67	10,760.0	6,726.0	-1,169.2	6,806.7	0.00	0.00	0.00
18,200.0 90.07 359.67 10,759.7 7,026.0 -1,170.9 7,105.5 0.00 0.00 0.00 18,300.0 90.07 359.67 10,759.5 7,126.0 -1,171.5 7,205.1 0.00 0.00 0.00 18,400.0 90.07 359.67 10,759.4 7,225.9 -1,172.0 7,304.7 0.00 0.00 0.00 0.00 18,500.0 90.07 359.67 10,759.3 7,325.9 -1,172.6 7,404.3 0.00 0.00 0.00 0.00 18,600.0 90.07 359.67 10,759.2 7,425.9 -1,173.2 7,503.9 0.00 0.00 0.00 0.00 18,700.0 90.07 359.67 10,759.1 7,525.9 -1,173.8 7,603.5 0.00 0.00 0.00 0.00 18,800.0 90.07 359.67 10,759.1 7,525.9 -1,173.8 7,603.5 0.00 0.00 0.00 0.00 18,803.6 90.07 359.67 10,758.9 7,625.9 -1,174.3 7,703.1 0.00 0.00 0.00 0.00 18,803.6 90.07 359.67 10,758.9 7,625.9 -1,174.4 7,706.6 0.00 0.00 0.00 0.00 0.00 0.00 0.00	18,000.0	90.07	359.67	10,759.9	6,826.0	-1,169.7	6,906.3	0.00	0.00	0.00
18,300.0       90.07       359.67       10,759.5       7,126.0       -1,171.5       7,205.1       0.00       0.00       0.00         18,400.0       90.07       359.67       10,759.4       7,225.9       -1,172.0       7,304.7       0.00       0.00       0.00         18,500.0       90.07       359.67       10,759.3       7,325.9       -1,172.6       7,404.3       0.00       0.00       0.00         18,600.0       90.07       359.67       10,759.2       7,425.9       -1,173.2       7,503.9       0.00       0.00       0.00         18,700.0       90.07       359.67       10,759.1       7,525.9       -1,173.8       7,603.5       0.00       0.00       0.00         18,800.0       90.07       359.67       10,758.9       7,625.9       -1,174.3       7,703.1       0.00       0.00       0.00         18,803.6       90.07       359.67       10,758.9       7,629.5       -1,174.4       7,706.6       0.00       0.00       0.00         PPP3: 0' FSL & 350' FWL (Sec 4)     18,900.0  90.07  359.67  10,758.8  7,725.9  -1,174.9  7,825.9  -1,175.5  7,902.3  0.00  0.00  0.00  0.00  0.00  0.00  19,100.0  90.07  359.67  10,758.6  7,925.9  -1,176.1  8,001.9  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.	18,100.0	90.07	359.67		6,926.0	-1,170.3	7,005.9	0.00	0.00	0.00
18,400.0       90.07       359.67       10,759.4       7,225.9       -1,172.0       7,304.7       0.00       0.00       0.00         18,500.0       90.07       359.67       10,759.3       7,325.9       -1,172.6       7,404.3       0.00       0.00       0.00         18,600.0       90.07       359.67       10,759.2       7,425.9       -1,173.2       7,503.9       0.00       0.00       0.00         18,700.0       90.07       359.67       10,759.1       7,525.9       -1,173.8       7,603.5       0.00       0.00       0.00         18,800.0       90.07       359.67       10,758.9       7,625.9       -1,174.3       7,703.1       0.00       0.00       0.00         18,803.6       90.07       359.67       10,758.9       7,629.5       -1,174.4       7,706.6       0.00       0.00       0.00         PPP3: 0' FSL & 350' FWL (Sec 4)         18,900.0       90.07       359.67       10,758.8       7,725.9       -1,174.9       7,802.7       0.00       0.00       0.00         19,000.0       90.07       359.67       10,758.7       7,825.9       -1,175.5       7,902.3       0.00       0.00       0.00										
18,500.0       90.07       359.67       10,759.3       7,325.9       -1,172.6       7,404.3       0.00       0.00       0.00         18,600.0       90.07       359.67       10,759.2       7,425.9       -1,173.2       7,503.9       0.00       0.00       0.00         18,700.0       90.07       359.67       10,759.1       7,525.9       -1,173.8       7,603.5       0.00       0.00       0.00         18,800.0       90.07       359.67       10,758.9       7,625.9       -1,174.3       7,703.1       0.00       0.00       0.00         PPP3: 0' FSL & 350' FWL (Sec 4)         18,900.0       90.07       359.67       10,758.8       7,725.9       -1,174.9       7,802.7       0.00       0.00       0.00         19,000.0       90.07       359.67       10,758.7       7,825.9       -1,174.9       7,802.7       0.00       0.00       0.00         19,100.0       90.07       359.67       10,758.6       7,925.9       -1,175.5       7,902.3       0.00       0.00       0.00         19,200.0       90.07       359.67       10,758.6       7,925.9       -1,176.1       8,001.9       0.00       0.00       0.00         19,20										
18,600.0       90.07       359.67       10,759.2       7,425.9       -1,173.2       7,503.9       0.00       0.00       0.00         18,700.0       90.07       359.67       10,759.1       7,525.9       -1,173.8       7,603.5       0.00       0.00       0.00         18,800.0       90.07       359.67       10,758.9       7,625.9       -1,174.3       7,703.1       0.00       0.00       0.00         PPP3: 0' FSL & 350' FWL (Sec 4)         18,900.0       90.07       359.67       10,758.8       7,725.9       -1,174.9       7,802.7       0.00       0.00       0.00         19,000.0       90.07       359.67       10,758.7       7,825.9       -1,175.5       7,902.3       0.00       0.00       0.00         19,100.0       90.07       359.67       10,758.6       7,925.9       -1,176.1       8,001.9       0.00       0.00       0.00         19,200.0       90.07       359.67       10,758.6       7,925.9       -1,176.1       8,001.9       0.00       0.00       0.00         19,200.0       90.07       359.67       10,758.5       8,025.9       -1,176.7       8,101.5       0.00       0.00       0.00	18,400.0	90.07	359.67	10,759.4	7,225.9	-1,172.0	7,304.7	0.00	0.00	0.00
18,700.0       90.07       359.67       10,759.1       7,525.9       -1,173.8       7,603.5       0.00       0.00       0.00         18,800.0       90.07       359.67       10,758.9       7,625.9       -1,174.3       7,703.1       0.00       0.00       0.00         18,803.6       90.07       359.67       10,758.9       7,629.5       -1,174.4       7,706.6       0.00       0.00       0.00         PPP3: 0' FSL & 350' FWL (Sec 4)         18,900.0       90.07       359.67       10,758.8       7,725.9       -1,174.9       7,802.7       0.00       0.00       0.00         19,000.0       90.07       359.67       10,758.7       7,825.9       -1,175.5       7,902.3       0.00       0.00       0.00         19,100.0       90.07       359.67       10,758.6       7,925.9       -1,176.1       8,001.9       0.00       0.00       0.00         19,200.0       90.07       359.67       10,758.5       8,025.9       -1,176.7       8,101.5       0.00       0.00       0.00										
18,800.0 90.07 359.67 10,758.9 7,625.9 -1,174.3 7,703.1 0.00 0.00 0.00 18,803.6 90.07 359.67 10,758.9 7,629.5 -1,174.4 7,706.6 0.00 0.00 0.00 0.00 0.00 0.00 0.00										
18,803.6 90.07 359.67 10,758.9 7,629.5 -1,174.4 7,706.6 0.00 0.00 0.00 PPP3: 0' FSL & 350' FWL (Sec 4)  18,900.0 90.07 359.67 10,758.8 7,725.9 -1,174.9 7,802.7 0.00 0.00 0.00 19,000.0 90.07 359.67 10,758.7 7,825.9 -1,175.5 7,902.3 0.00 0.00 0.00 19,100.0 90.07 359.67 10,758.6 7,925.9 -1,176.1 8,001.9 0.00 0.00 0.00 19,200.0 90.07 359.67 10,758.5 8,025.9 -1,176.7 8,101.5 0.00 0.00 0.00										
PPP3: 0' FSL & 350' FWL (Sec 4)  18,900.0 90.07 359.67 10,758.8 7,725.9 -1,174.9 7,802.7 0.00 0.00 0.00 19,000.0 90.07 359.67 10,758.7 7,825.9 -1,175.5 7,902.3 0.00 0.00 0.00 19,100.0 90.07 359.67 10,758.6 7,925.9 -1,176.1 8,001.9 0.00 0.00 0.00 19,200.0 90.07 359.67 10,758.5 8,025.9 -1,176.7 8,101.5 0.00 0.00 0.00										
18,900.0       90.07       359.67       10,758.8       7,725.9       -1,174.9       7,802.7       0.00       0.00       0.00         19,000.0       90.07       359.67       10,758.7       7,825.9       -1,175.5       7,902.3       0.00       0.00       0.00         19,100.0       90.07       359.67       10,758.6       7,925.9       -1,176.1       8,001.9       0.00       0.00       0.00         19,200.0       90.07       359.67       10,758.5       8,025.9       -1,176.7       8,101.5       0.00       0.00       0.00				10,758.9	7,629.5	-1,174.4	7,706.6	0.00	0.00	0.00
19,000.0     90.07     359.67     10,758.7     7,825.9     -1,175.5     7,902.3     0.00     0.00     0.00       19,100.0     90.07     359.67     10,758.6     7,925.9     -1,176.1     8,001.9     0.00     0.00     0.00       19,200.0     90.07     359.67     10,758.5     8,025.9     -1,176.7     8,101.5     0.00     0.00     0.00										
19,100.0     90.07     359.67     10,758.6     7,925.9     -1,176.1     8,001.9     0.00     0.00     0.00       19,200.0     90.07     359.67     10,758.5     8,025.9     -1,176.7     8,101.5     0.00     0.00     0.00										
19,200.0 90.07 359.67 10,758.5 8,025.9 -1,176.7 8,101.5 0.00 0.00 0.00										
						,				
	19,200.0 19,300.0	90.07 90.07	359.67 359.67	10,758.5 10,758.3	8,025.9 8,125.9	-1,176.7 -1,177.2	8,101.5 8,201.1	0.00	0.00 0.00	0.00 0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Forty Niner Ridge Unit #138H
Well: Sec 16, T23S, R30E

**Wellbore:** BHL: 330' FNL & 330' FWL (Sec 4)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Forty Niner Ridge Unit #138H WELL @ 3163.0usft (Original Well Elev) WELL @ 3163.0usft (Original Well Elev)

Grid

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,400.0	90.07	359.67	10,758.2	8,225.9	-1,177.8	8,300.7	0.00	0.00	0.00
19,500.0	90.07	359.67	10,758.1	8,325.9	-1,178.4	8,400.3	0.00	0.00	0.00
19,600.0	90.07	359.67	10,758.0	8,425.9	-1,179.0	8,499.9	0.00	0.00	0.00
19,700.0	90.07	359.67	10,757.9	8,525.9	-1,179.5	8,599.5	0.00	0.00	0.00
19,800.0	90.07	359.67	10,757.7	8,625.9	-1,180.1	8,699.1	0.00	0.00	0.00
19,900.0	90.07	359.67	10,757.6	8,725.9	-1,180.7	8,798.7	0.00	0.00	0.00
20,000.0	90.07	359.67	10,757.5	8,825.9	-1,181.3	8,898.3	0.00	0.00	0.00
20,100.0	90.07	359.67	10,757.4	8,925.9	-1,181.8	8,997.9	0.00	0.00	0.00
20,200.0	90.07	359.67	10,757.3	9,025.9	-1,182.4	9,097.5	0.00	0.00	0.00
20,300.0	90.07	359.67	10,757.1	9,125.9	-1,183.0	9,197.1	0.00	0.00	0.00
20,400.0	90.07	359.67	10,757.0	9,225.9	-1,183.6	9,296.7	0.00	0.00	0.00
20,500.0	90.07	359.67	10,756.9	9,325.9	-1,184.2	9,396.3	0.00	0.00	0.00
20,600.0	90.07	359.67	10,756.8	9,425.9	-1,184.7	9,495.9	0.00	0.00	0.00
20,700.0	90.07	359.67	10,756.7	9,525.9	-1,185.3	9,595.5	0.00	0.00	0.00
20,800.0	90.07	359.67	10,756.5	9,625.9	-1,185.9	9,695.1	0.00	0.00	0.00
20,900.0	90.07	359.67	10,756.4	9,725.9	-1,186.5	9,794.7	0.00	0.00	0.00
21,000.0	90.07	359.67	10,756.3	9,825.9	-1,187.0	9,894.3	0.00	0.00	0.00
21,100.0	90.07	359.67	10,756.2	9,925.9	-1,187.6	9,993.9	0.00	0.00	0.00
21,200.0	90.07	359.67	10,756.1	10,025.9	-1,188.2	10,093.5	0.00	0.00	0.00
21,300.0	90.07	359.67	10,755.9	10,125.9	-1,188.8	10,193.1	0.00	0.00	0.00
21,400.0	90.07	359.67	10,755.8	10,225.9	-1,189.3	10,292.7	0.00	0.00	0.00
21,444.9	90.07	359.67	10,755.8	10,270.8	-1,189.6	10,337.4	0.00	0.00	0.00
PPP4: 2641' I	FNL & 338' FWL								
21,500.0	90.07	359.67	10,755.7	10,325.9	-1,189.9	10,392.3	0.00	0.00	0.00
21,600.0	90.07	359.67	10,755.6	10,425.9	-1,190.5	10,491.9	0.00	0.00	0.00
21,700.0	90.07	359.67	10,755.5	10,525.9	-1,191.1	10,591.5	0.00	0.00	0.00
21,800.0	90.07	359.67	10,755.4	10,625.9	-1,191.7	10,691.1	0.00	0.00	0.00
21,900.0	90.07	359.67	10,755.2	10,725.9	-1,192.2	10,790.7	0.00	0.00	0.00
	90.07		10,755.1			,	0.00	0.00	0.00
22,000.0		359.67		10,825.9	-1,192.8	10,890.3			
22,100.0	90.07	359.67	10,755.0	10,925.9	-1,193.4	10,989.9	0.00	0.00	0.00
22,200.0	90.07	359.67	10,754.9	11,025.9	-1,194.0	11,089.5	0.00	0.00	0.00
22,300.0	90.07	359.67	10,754.8	11,125.9	-1,194.5	11,189.1	0.00	0.00	0.00
22,400.0	90.07	359.67	10,754.6	11,225.9	-1,195.1	11,288.7	0.00	0.00	0.00
22,500.0	90.07	359.67	10,754.5	11,325.9	-1,195.7	11,388.3	0.00	0.00	0.00
22,600.0	90.07	359.67	10,754.4	11,425.9	-1,196.3	11,487.9	0.00	0.00	0.00
22,700.0	90.07	359.67	10,754.3	11,525.9	-1,196.8	11,587.5	0.00	0.00	0.00
22,800.0	90.07	359.67	10,754.2	11,625.9	-1,197.4	11,687.1	0.00	0.00	0.00
22,900.0	90.07	359.67	10,754.0	11,725.9	-1,197.4	11,786.7	0.00	0.00	0.00
	90.07	359.67 359.67	10,754.0						0.00
23,000.0				11,825.9	-1,198.6	11,886.3	0.00	0.00	
23,100.0	90.07	359.67	10,753.8	11,925.9	-1,199.2	11,985.9	0.00	0.00	0.00
23,200.0	90.07	359.67	10,753.7	12,025.9	-1,199.7	12,085.5	0.00	0.00	0.00
23,300.0	90.07	359.67	10,753.6	12,125.9	-1,200.3	12,185.1	0.00	0.00	0.00
23,400.0	90.07	359.67	10,753.4	12,225.9	-1,200.9	12,284.7	0.00	0.00	0.00
23,500.0	90.07	359.67	10,753.3	12,325.9	-1,201.5	12,384.3	0.00	0.00	0.00
23,600.0	90.07	359.67	10,753.2	12,425.9	-1,202.0	12,483.9	0.00	0.00	0.00
23,700.0	90.07	359.67	10,753.1	12,525.9	-1,202.6	12,583.5	0.00	0.00	0.00
	00.07	359.67	10,753.0	12,592.2	-1,203.0	12,649.5	0.00	0.00	0.00
23,766.3	90.07								

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Forty Niner Ridge Unit #138H

Well: Sec 16, T23S, R30E

**Wellbore:** BHL: 330' FNL & 330' FWL (Sec 4)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

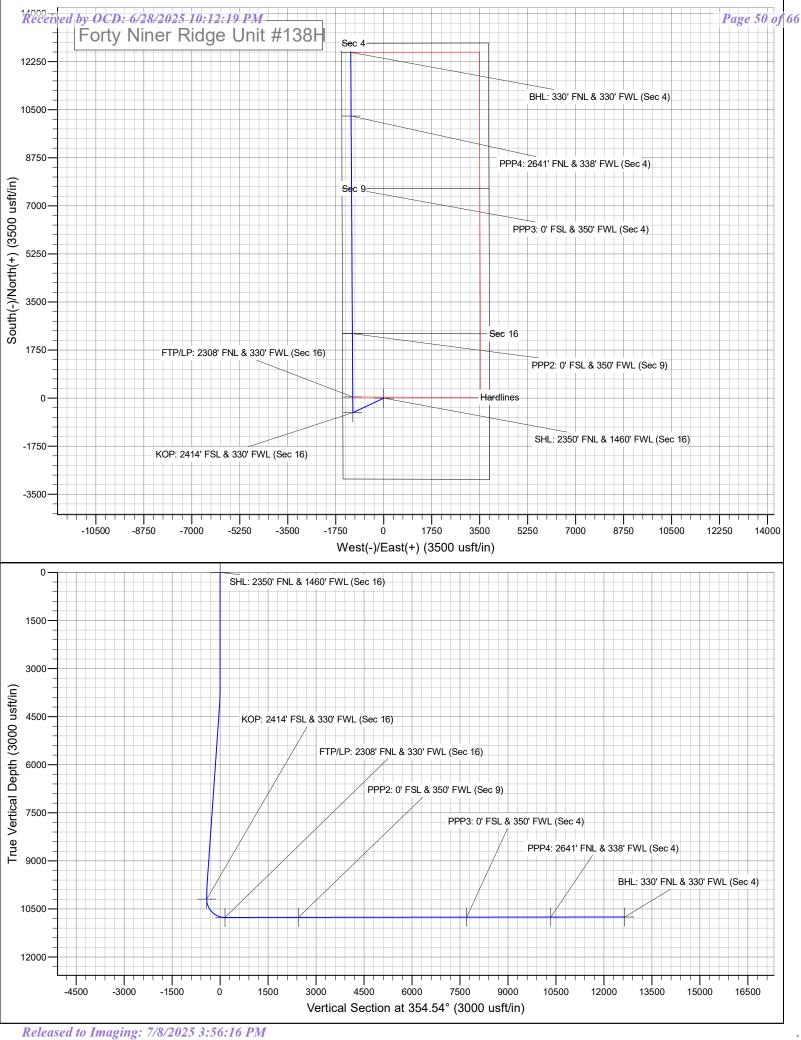
**Survey Calculation Method:** 

Site Forty Niner Ridge Unit #138H

WELL @ 3163.0usft (Original Well Elev) WELL @ 3163.0usft (Original Well Elev)

Grid

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: 2350' FNL & 1460' - plan hits target cent - Point	0.00 er	0.00	0.0	0.0	0.0	475,308.20	678,265.50	32.3059173	-103.8901372
KOP: 2414' FSL & 330' f - plan hits target cent - Point	0.00 er	0.00	10,195.0	-528.3	-1,127.3	474,779.90	677,138.20	32.3044779	-103.8937928
BHL: 330' FNL & 330' FN - plan hits target cent - Point	0.00 er	0.00	10,753.0	12,592.2	-1,203.0	487,900.40	677,062.50	32.3405441	-103.8938637
PPP4: 2641' FNL & 338' - plan hits target cent - Point	0.00 er	0.00	10,755.8	10,270.8	-1,189.6	485,579.00	677,075.89	32.3341630	-103.8938511
PPP3: 0' FSL & 350' FW - plan hits target cent - Point	0.00 eer	0.00	10,758.9	7,629.5	-1,174.4	482,937.70	677,091.13	32.3269025	-103.8938369
PPP2: 0' FSL & 350' FW - plan hits target cent - Point	0.00 er	0.00	10,765.2	2,351.2	-1,143.9	477,659.43	677,121.58	32.3123933	-103.8938084
FTP/LP: 2308' FNL & 33 - plan hits target cent - Point	0.00 er	0.00	10,768.0	44.6	-1,130.6	475,352.80	677,134.89	32.3060527	-103.8937959



# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** MEWBOURNE OIL COMPANY

WELL NAME & NO.: FORTY NINER RIDGE UNIT COM 138H

**APD ID:** 10400102874

**LOCATION:** Section 16, T.23 S., R.30 E. NMP

COUNTY: Eddy County, New Mexico

COA

$H_2S$	0	No	Yes			
Potash /	None	Secretary	<b>⊙</b> R-111-Q	Open Annulus		
WIPP	3-String D	esign: Open Production C	Casing Annulus			
Cave / Karst	C Low	Medium	• High	Critical		
Wellhead	Conventional	<ul><li>Multibowl</li></ul>	O Both	Diverter		
Cementing	Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool		
Special Req	☐ Capitan Reef	☐ Water Disposal	▼ COM	Unit		
Waste Prev.	C Self-Certification	• Waste Man. Plan	C APD Submitted p	rior to 06/10/2024		
Additional	▼ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	Break Testing		
Language	☐ Four-String	Offline Cementing	☐ Fluid-Filled			

#### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H<sub>2</sub>S) Drilling Plan shall be activated **at spud**. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

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

## **B. CASING**

# **Primary Casing Program**

- 1. The 13-3/8 inch surface casing shall be set at approximately 300 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. If salt is encountered, set the casing at least 25 ft. above the salt.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the

- cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 in. intermediate casing shall be set in a competent bed at approximately 3,385 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:** The operator shall follow all applicable requirements in the Order No. R-111-Q. The minimum additives/characteristics of cement slurry as well as centralizer program prescribed for the 1<sup>st</sup> intermediate casing shall be in accordance with the Order No. R-111-Q.

- **3.** Operator has proposed to set **7-inch** production casing at approximately **10,319 ft.** (10,195 ft. TVD). The minimum required fill of cement behind the **7** inch production casing is:
  - Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage within 180 days after well completion in accordance with the R-111-Q guidelines.
    - a. First stage: Operator will cement production casing with intent to bring cement to top of Brushy Canyon formation. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst and Potash.
    - b. Second stage: Operator will perform bradenhead squeeze within 180 days after completion per R-111-Q requirements. Cement shall be tie-back at least 500 ft. into intermediate casing and below the Marker Bed 126. If cement does not circulate, the appropriate BLM office shall be notified.
  - ❖ Operator must run a cement evaluation tool (fluid shot tool, Temperature log or CBL, etc.) to verify TOC after the second stage bradenhead. Submit the results to the BLM. If cement does not tie-back at least 500 ft. into the previous casing shoe, the appropriate BLM office shall be notified.
  - ❖ A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing x Production Casing annulus un-cemented and monitored inside the Intermediate String. Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within 180 days.
- 4. The minimum required fill of cement behind the 4-1/2 inch production liner is:

• Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

# **Alternate Casing Program**

- 1. The 13-3/8 inch surface casing shall be set at approximately 300 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. If salt is encountered, set the casing at least 25 ft. above the salt.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 in. intermediate casing shall be set in a competent bed at approximately 3,385 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:** The operator shall follow all applicable requirements in the Order No. R-111-Q. The minimum additives/characteristics of cement slurry as well as centralizer program prescribed for the 1<sup>st</sup> intermediate casing shall be in accordance with the Order No. R-111-Q.

- 3. Operator has proposed to set 7-5/8 inch production casing at approximately 10,319 ft. (10,195 ft. TVD). The minimum required fill of cement behind the 7-5/8 inch production casing is:
  - Operator has proposed to cement in two stages by conventionally cementing the first stage
    and performing a bradenhead squeeze on the second stage within 180 days after well
    completion in accordance with the R-111-Q guidelines.
    - a. First stage: Operator will cement production casing with intent to bring cement to top of Brushy Canyon formation. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst and Potash.
    - b. Second stage: Operator will perform bradenhead squeeze within 180 days after completion per R-111-Q requirements. Cement shall be tie-back at least 500 ft. into

intermediate casing and below the Marker Bed 126. If cement does not circulate, the appropriate BLM office shall be notified.

- ❖ Operator must run a cement evaluation tool (fluid shot tool, Temperature log or CBL, etc.) to verify TOC after the second stage bradenhead. Submit the results to the BLM. If cement does not tie-back at least 500 ft. into the previous casing shoe, the appropriate BLM office shall be notified.
- ❖ A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing x Production Casing annulus un-cemented and monitored inside the Intermediate String. Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within 180 days.
- 4. The minimum required fill of cement behind the 5-1/2 inch production liner is:
  - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

**Note:** Cement volume is insufficient to satisfy the 100 ft. tie-back requirement. **More cement is needed.** 

# **Offline Cementing**

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

#### C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a multi-bowl wellhead assembly. 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. BOP and BOPE shall be tested in accordance with title **43 CFR 3172**.
  - 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.** 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.

v. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

# **BOPE Break Testing Variance (Utilizing a 10M BOPE system)**

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

#### D. SPECIAL REQUIREMENT (S)

#### **Unit Wells**

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

## **Commercial Well Determination**

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

#### **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.

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- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

# **GENERAL REQUIREMENTS**

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

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

# **Contact 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 2<sup>nd</sup> 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 2<sup>nd</sup> 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 04/22/2025

# <u>Hydrogen Sulfide Drilling Operations Plan</u> **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:

- 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.
- The contents of the Hydrogen Sulfide Drilling Operations Plan.

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

#### 3. Hydrogen Sulfide Safety Equipment and Systems

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

#### 1. Well Control Equipment

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

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

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

#### 3. <u>Hydrogen Sulfide Protection and Monitoring Equipment</u>

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
<b>Closest Medical Facility - Columbia Medical Cent</b>	er of Carlsbad 575-492-5000

Mewbourne Oil Company	Hobbs District Office Fax 2 <sup>nd</sup> Fax	575-393-5905 575-397-6252 575-393-7259
District Manager	Robin Terrell	575-390-4816
<b>Drilling Superintendent</b>	Frosty Lathan	575-390-4103
	Bradley Bishop	575-390-6838
<b>Drilling Foreman</b>	Wesley Noseff	575-441-0729

**Operator Name: MEWBOURNE OIL COMPANY** 

Well Name: FORTY NINER RIDGE UNIT COM Well Number: 138H

# **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: Lost circulation material Sweeps Mud scavengers in surface hole

Describe the mud monitoring system utilized: 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)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	300	SPUD MUD	8.4	8.6							
300	3450	SALT SATURATED	10	10.2							
3450	1121 9	WATER-BASED MUD	8.6	9.7							
1121 9	2376 6	OIL-BASED MUD	10	11.3							

# **Section 6 - Test, Logging, Coring**

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

Will run GR/CNL in offset well Forty Niner Ridge Unit #144H.

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: FORTY NINER RIDGE UNIT COM Well Number: 138H

# **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 6327 Anticipated Surface Pressure: 3958

**Anticipated Bottom Hole Temperature(F):** 140

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

Describe:

**Contingency Plans geoharzards description:** 

**Contingency Plans geohazards** 

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S\_Plan\_20241230082353.pdf

### **Section 8 - Other Information**

#### Proposed horizontal/directional/multi-lateral plan submission:

Forty\_Niner\_Ridge\_Unit\_138H\_MOC\_Dir\_Plan\_20250127100508.pdf

Forty\_Niner\_Ridge\_Unit\_138H\_MOC\_Dir\_Plot\_20250127100508.pdf

Other proposed operations facets description:

# Other proposed operations facets attachment:

Forty\_Niner\_Ridge\_Unit\_138H\_NGMP\_20241230083814.pdf

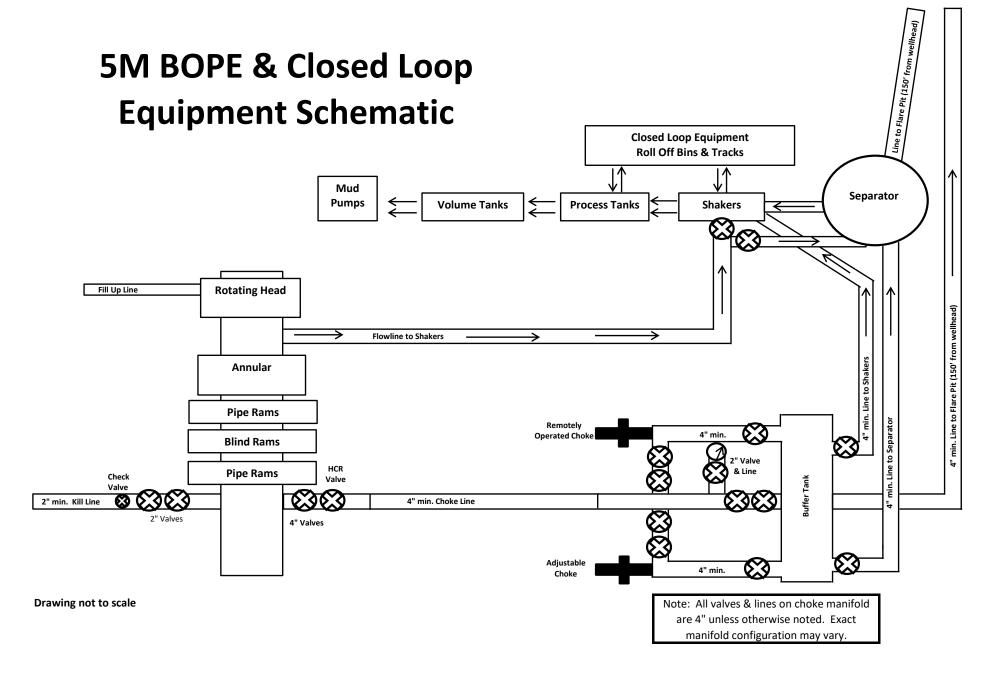
Forty\_Niner\_Ridge\_Unit\_138H\_Drlg\_Program\_20250127100514.pdf

# Other Variance attachment:

Mewbourne\_Offline\_Cementing\_Variance\_20241230082530.pdf

Mewbourne\_Break\_Testing\_Variance\_20241230082549.pdf

Forty\_Niner\_Ridge\_Unit\_138H\_R\_111Q\_Csg\_\_\_Cmt\_Assumptions\_20241230110646.pdf



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

General Information Phone: (505) 629-6116 Online Phone Directory

https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 479966

#### CONDITIONS

**Santa Fe, NM 87505** 

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	479966
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
jsmith01	Cement is required to circulate on both surface and intermediate1 strings of casing.	6/28/2025
jsmith01	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	6/28/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	7/8/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	7/8/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	7/8/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	7/8/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	7/8/2025